# Draft
# Environmental Impact Report

## Appendices - Volume 6

**Appendices K through N**

# AVEP Solar Project

Kern County
Planning and Natural Resources Department
Bakersfield, California

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# Appendix K

## AVEP Solar Project Preliminary Drainage Study

ESA

# AVEP SOLAR PROJECT

# PRELIMINARY DRAINAGE STUDY

## October 11, 2019

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## ADDENDUMS

November 12, 2020 Addendum 1 to the AVEP Solar Project Preliminary Drainage Study

# SECTION 1

## INTRODUCTION

This report has been prepared for the proposed AVEP Solar Project, consisting of Tumbleweed Solar, Rabbitbrush Solar, and Chaparral Solar, located in unincorporated Kern County, north of Highway 138 and west of the community of Rosamond. This report provides a preliminary hydrology and hydraulic study for the AVEP Solar Project sites and has been prepared in accordance with the Kern County Hydrology Manual.

### 1.1 Purpose

The purpose of this report is to provide a preliminary evaluation of the flood hazards for the project sites for use in project permitting. Components of this evaluation include:

- Hydrologic analysis
- Hydraulic analysis

### 1.2 Existing Studies

The following studies are relevant to this report:

- Geotechnical Services (Updated Report), Rosamond Solar Project, Earth Systems Southwest, January 26, 2017.
- Geotechnical Engineering Report, Willow Springs Solar Project, Terracon Consultants, Inc., March 17, 2017.
- Improved Highway Design Methods for Desert Storms. Final Report No. CA07-0592. Caltrans Division of Research and Innovation. August 2007.
- Flood Insurance Study, Kern County California (06029C3650E). Federal Emergency Management Agency (FEMA). September 26, 2008.
- Flood Insurance Study, Kern County California (06029C3975E). Federal Emergency Management Agency (FEMA). September 26, 2008.
- Flood Insurance Study, Kern County California (06029C4000E). Federal Emergency Management Agency (FEMA). September 26, 2008.

### 1.3 General Site Description

The project is approximately 5.5 miles North of Highway 138 and approximately 9 miles west of the community of Rosamond, with three separate project sites –Tumbleweed Solar, Rabbitbrush Solar, and Chaparral Solar.

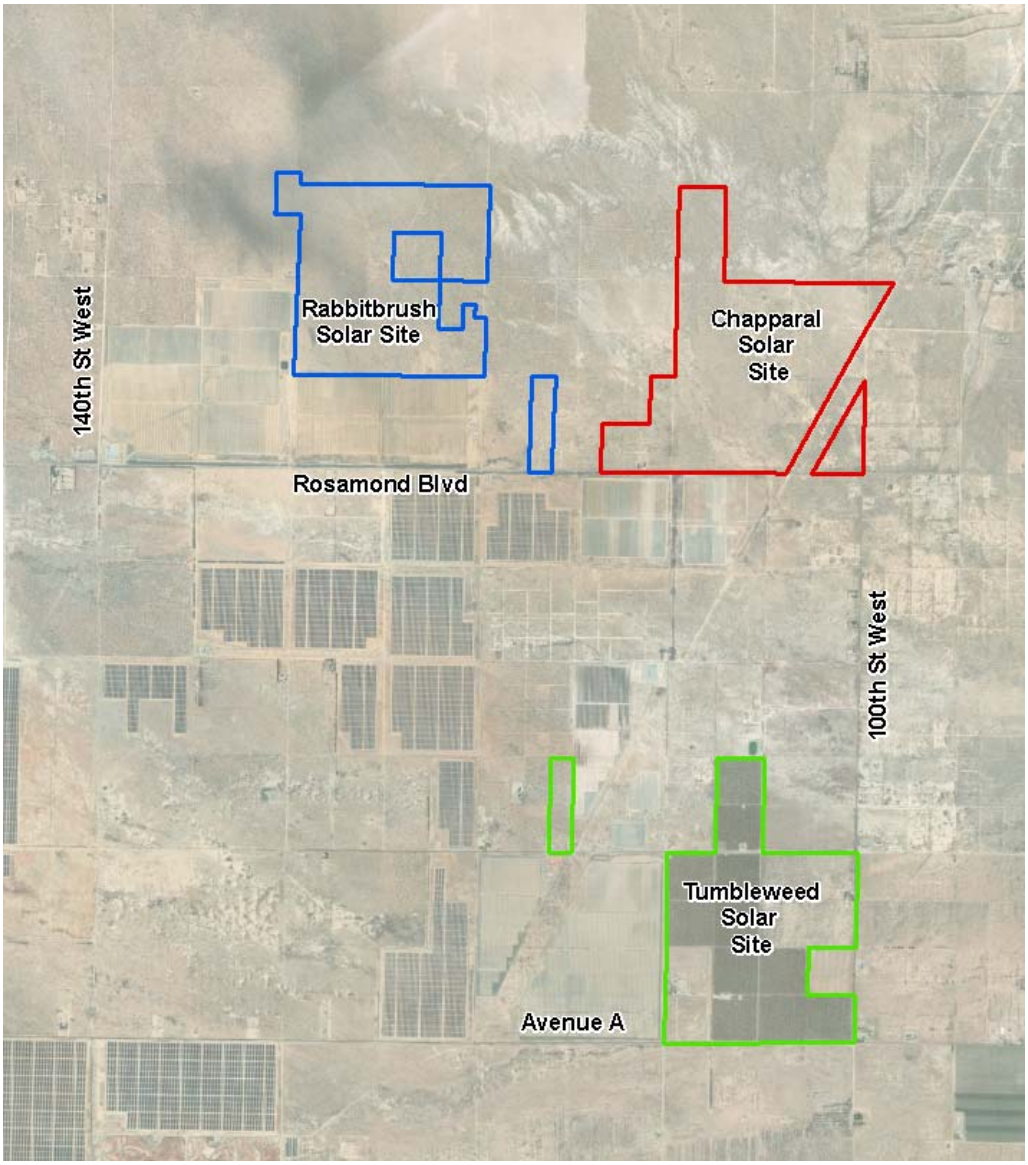
The approximate 684 acre Tumbleweed Solar site is generally bordered by West Avenue A to the south, 100$^{th}$ Street West to the east, Willow Ave to the north and 117$^{th}$ Street West to the west. The site consists of agricultural land.

The approximate 626 acre Rabbitbrush Solar site is generally bordered by Rosamond Boulevard to the south, 115th Street West to the east, Hamilton Road to the north and 130th Street West to the west. The site consists of recently fallowed agricultural land and undeveloped land.

The approximate759 acre Chaparral Solar site is generally bordered by Rosamond Blvd to the south, 100th Street West to the east, Hamilton Road to the north and 110th Street West to the west. The site consists of recently fallowed agricultural land and undeveloped land.

Land uses in the AVEP project vicinity include a mix of undeveloped land, agriculture, scattered low-density residential, and other utility scale solar projects.

**Figure 1-1: AVEP Solar Project Sites Map**



**FEMA Floodplain**

The Federal Emergency Management Agency (FEMA) has mapped flood zones within the project sites. The applicable Flood Insurance Rate Maps (FIRM) are Community Panel Numbers 06029C3650E, 06029C3975E, and 06029C4000E, all dated September 26, 2008. The entirety of all three sites are shown to be situated within a mapped Zone A (100-year) flood hazard area. The relevant FIRM maps are attached in Appendix B.

## 1.4 Study Limits

The study area for each of the three sites includes the project site and offsite contributing watershed. The offsite watershed for each site extends approximately 15 miles northwest of the project site into the Tehachapi Mountains. The hydrologic and hydraulic analysis of the study area for each site is comprised of three separate models using two computer programs: CivilD for hydrology, and FLO-2D for both hydrology and hydraulics. The following is a description of the three models for each site and their purpose for the overall analysis. Refer to Appendix B for an exhibit of the model boundaries for each site.

- Upstream Watershed CivilD model: Quantify runoff from the upstream sub-watersheds and provide inflow hydrographs to the Offsite FLO-2D model.
- Offsite FLO-2D model: Translate inflow hydrographs from CivilD to depth and velocity of flow across the floodplain upstream of each of the project sites. Provide inflow hydrographs to Onsite FLO-2D model.
- Onsite FLO-2D model: Provide depth and velocity of flow on each of the project sites and adjacent areas.

## 1.5 Proposed Site Improvements

The proposed project is three solar photovoltaic (PV) generation facilities with a total developed area of approximately 2,069 acres. Improvements proposed for the project consist of solar module arrays installed on driven piers, related electrical collectors, inverters, and transformers, underground connective conduit utility installation, PV interconnection switch gear, three electrical collection systems, Energy Storage Systems (ESS), a 230 kilovolt (kV) generation power tie (gen-tie) line, up to three operation and maintenance (O&M) facilities, a substation or modifications to an existing substation, security fencing, internal access roads constructed of compacted native soils, and aggregate base perimeter roads.

# SECTION 2

## HYDROLOGY

## 2.1 Watershed Characteristics

This section provides a description of hydrological characteristics of each of the sites and their overall watersheds.

**Site Investigation**

Wallace Group conducted a site review and investigation for each of the three sites on June 5th, 2017 to confirm our in-office analysis and develop a better understanding of regional drainage and existing site conditions.

**Project Site Topography**

The majority of all three project sites and their surrounding areas are relatively flat, with average ground slopes between 0.1 and 1.5 percent from northwest to southeast. Chaparral and Rabbitbrush each have portions of the site that are characterized by steeper slopes and rolling topography. Site drainage is characterized by shallow sheet flow conditions, with significant well-defined channels in the steeper, more rolling areas of the Chaparral and Rabbitbrush sites. In these bands of steeper terrain, slopes are 2 to 9 percent, with well-defined channel depths up to 20 feet deep. These bands of steeper terrain are shown in Appendix B. All of these channels disperse back to into sheet flow conditions on each of the project sites. Small berms were built up on the Tumbleweed site as a part of prior farming operations. These berms are intended to be left in place where they are outside of the proposed limits of construction.

**Regional Watershed**

Each project site is downstream of a large watershed characterized by steep upper canyons transitioning to sheet flow and shallow channelized flow through alluvial fans spreading across the Antelope Valley. Cottonwood Creek is a significant ephemeral drainage located northwest of the project. Multiple washes and ephemeral streams join together in Cottonwood Creek, which flows south and east across the study area. Additionally, Oak Creek is a significant ephemeral drainage located northeast of the project. Multiple washes and ephemeral streams join together in Oak Creek, which flow south across the study area. The project site and offsite watershed are tributary to Rosamond Dry Lake. Refer to Appendix B for maps of each site and watersheds.

**Soils**

Based on the geotechnical investigation for the nearby Rosamond and Willow Springs Solar Projects, soils on the project site are likely silty sands and sandy silts. On each of the three sites, most soils are classified by the National Resource Conservation Service (NRCS) as Hydrologic Soil Groups (HSG) A and B, with some areas of HSG C and D.

Based on NRCS soil mapping, offsite soils consist largely of loam, loamy sand, and sandy loam, with some pockets of rock escarpment, sands, gravelly sands, and various complexes. In the lower floodplain area of the offsite watershed, these soils are mostly HSG A. In the upper reaches, they range from A to D, with A through C representing the majority of the area in approximately equal proportions.

A map of NRCS soil types is included in Appendix B.

## 2.2 Methodology

Hydrology for the upstream sub-watersheds was analyzed using the Kern County Hydrology Manual (KCHM) hydrograph procedure, with the computer program CivilD by Civil Design Corporation. Model inputs and parameters were based on the KCHM. The following is a summary of the model inputs. Details of the hydrologic analysis are provided in Appendix D.

- Watershed Delineation: The overall upstream watershed was delineated and then broken down into multiple sub-watersheds using USGS topographic data.
- Curve Number (CN): Curve numbers were applied based on NRCS soil data and KCHM recommendations.
- Lag Time: Lag time was calculated based on the KCHM method for large watersheds.
- Rainfall Depth: NOAA Atlas 14 values were used to calculate average rainfall for each sub-watershed.
- Depth-Area Reduction Factor (DARF): Rainfall was reduced by a DARF based on sub-watershed size, per the KCHM.
- Rainfall Distribution and Transformation: The KCHM Critical Storm distribution and Desert Area S-Curves were used to create the synthetic hydrograph.

## 2.3 References for Peak Flow Rates

Three sources for peak flow rates in the project area were referenced for comparison to the hydrology analysis: FEMA, Caltrans, and the KCHM Regression Equations.

**FEMA Flow Rates**

Wallace Group reviewed the Flood Insurance Study (FIS) prepared by FEMA for Kern County. The FIS for Kern County did not include peak flow rates for any creeks or washes near the project, and was therefore not used as a peak flow reference.

**Caltrans**

Through recent research Caltrans has developed regression equations for calculation of peak runoff in un-gaged watersheds, dependent on location within California. These equations are intended to supersede prior regression equations developed by USGS. The Caltrans recommended equation for the project area (Colorado Desert) is as follows:

$$Q_{100} = 557.31 \times A^{0.6619}$$

Where A is in units of square miles and Q is peak flow for the 100-year storm event in units of cubic feet per second (cfs).

**Kern County Hydrology Manual**

Kern County has developed regression equations for calculation of peak runoff in un-gaged watersheds, dependent on location in Kern County. The Kern County recommend equation for the project area - South Lahonton-Colorado Desert Region (Antelope Valley Sub-Region) - is as follows:

$$Q_{100} = 297 \times A^{0.655}$$

Where A is in units of square miles and Q is peak flow for the 100-year storm event in units of cubic feet per second (cfs).

## 2.4 Peak Flow Results

A summary of peak flows is provided in Table 2-1 below.

**TABLE 2-1**
**100-Year, 24-Hour Peak Flows (cfs)**

| Watershed | Source | | |
|---|---|---|---|
| | Caltrans Regression Equations | Kern County Hydrology Manual Regression Equations | CivilDesign Analysis, Varying Calculation Time Step |
| 0 | 479 | 256 | 415 |
| 1 | 6,303 | 3,275 | 3,772 |
| 2 | 2,616 | 1,372 | 1,850 |
| 3 | 2,019 | 1,062 | 1,160 |
| 4 | 2,455 | 1,288 | 1,620 |
| 5 | 1,561 | 823 | 1,050 |
| 6 | 1,200 | 635 | 705 |
| 7 | 1,904 | 1,002 | 1,060 |
| 8 | 900 | 477 | 810 |
| 9 | 676 | 360 | 607 |
| 10 | 1,369 | 723 | 788 |
| 11 | 1,274 | 673 | 855 |
| 12 | 2,242 | 1,178 | 1,444 |
| 13 | 6,025 | 3,132 | 3,630 |

As shown in Table 2-1, the peak flow rates calculated using CivilDesign generally fall between the Caltrans Regression Equations and the KCHM Regression Equations. These results are based on a calculation time-step varying between 5 minutes and 15 minutes, depending on watershed size and calculated lag time. The KCHM recommends a calculation time step

between 15 and 25 percent of lag time, or a 5-minute time step where feasible. Wallace Group chose to take a conservative approach and run all the CivilD models with a 5-mintue timestep for use in the FLO-2D models. In some watersheds this significantly increases the values of peak flow, however the peaks last for such a short duration that the total volume flowing across the site does not increase substantially (5 to 8% volume increase over the 48-hour runoff hydrograph). Given the long travel time from the upstream end of the watershed to the project site, and the sheet flow flooding conditions, volume is assumed to have a greater effect on maximum flow depth compared to peak flow at the upper watershed boundary. The results of the modified analysis with a 5-minute time step are summarized in Table 2-2. Table 2-3 identifies which watersheds are tributary to each of the three separate solar sites. The complete CivilD output is included in Appendix D.

**TABLE 2-2**

**100-Year, 24-Hour Peak Flows for FLO-2D Model (cfs)**

| Watershed | CivilDesign Analysis, 5-Mintue Time Step |
|---|---|
| 0 | 415 |
| 1 | 8,925 |
| 2 | 4,700 |
| 3 | 2,820 |
| 4 | 3,520 |
| 5 | 2,130 |
| 6 | 1,470 |
| 7 | 1,470 |
| 8 | 810 |
| 9 | 607 |
| 10 | 1,569 |
| 11 | 1,660 |
| 12 | 2,548 |
| 13 | 8,232 |

| TABLE 2-3 | | | |
|---|---|---|---|
| **Offsite Watersheds Tributary to Project Site** | | | |
| **Watershed** | **Tumbleweed** | **Rabbitbrush** | **Chaparral** |
| 0 | X | X | X |
| 1 | X | X | X |
| 2 | X | X | X |
| 3 | X | X | X |
| 4 | X | X | X |
| 5 | X | X | X |
| 6 | X | X | X |
| 7 | X | X | X |
| 8 | | | X |
| 9 | | | X |
| 10 | | | X |
| 11 | | | X |
| 12 | | | X |
| 13 | | | X |

# SECTION 3

## HYDRAULICS

The purpose of the hydraulic analysis is to determine the distribution of storm runoff within each of the project sites and to evaluate any impacts to the site or its neighbors.

### 3.1 Methodology

Due to the spreading flow through the each of the sites, it was determined that a two-dimensional analysis of each site would provide the most accurate depiction of flow through each site. FLO-2D software was used for this purpose. FLO-2D is a volume conservation model that is effective for analyzing alluvial fan flooding as it will determine flow paths to 8 different directions, instead of the one-dimensional flow assumption considered for conventional analysis of uniform and confined channels. FLO-2D has been approved by FEMA as a hydraulic model for unconfined flood analysis.

The unconfined portion of the watershed for each site was divided into two FLO-2D models, an offsite (upstream) model and an onsite (downstream) model. The offsite model for each site was divided into 200 foot grids over approximately 27,860 acres (43.5 square miles) for the Tumbleweed site, 16,500 acres (25.8 square miles) for the Rabbitbrush site, and 31,930 acres (49.9 square miles) for the Chaparral site. The onsite model was divided into 25 foot grids over approximately 5,810 acres (9 square miles) for the Tumbleweed site, 2,970 acres (4.6 square miles) for the Rabbitbrush site, and 7,060 (11.0 square miles) for the Chaparral site.

**FLO-2D Topography**

The modeled surface for the Tumbleweed and Rabbitbrush sites was developed from a digital terrain model purchased from Intermap Technologies Inc. with a stated 5-meter grid resolution and 1-meter vertical accuracy. The modeled surface for the Chaparral site was developed from a USGS DEM data with a stated 10-meter grid resolution and a 2-meter vertical accuracy.

**FLO-2D Hydrology**

The FLO-2D model was also used to analyze hydrology for the rainfall that would occur over the FLO-2D model area. Rainfall was modeled across each of the project sites using the KCHM storm distribution. Infiltration was modeled using the NRCS method and CN values consistent with the KCHM. Results of the offsite hydrologic analysis (CivilD program) were input along the FLO-2D model boundaries as hydrographs.

Proposed conditions models were not developed as a part of this analysis. No changes in sub-watershed boundaries are proposed and the project will result in negligible impervious cover. Therefore, the hydrologic analysis parameters are the same for existing and proposed site conditions, and post-development peak flow rates on the project site are assumed to mimic existing conditions.

## 3.2 Site Investigation

During our site investigation, Wallace Group reviewed the visible surface flow characteristics of each site and searched for evidence of existing general and local scour patterns.

Both the Rabbitbrush and Chaparral sites include bands of steeper terrain of a rocky soil type which concentrates flow into deep channels with laid-back banks and a flat bed with little or no headcutting. A typical channel of this type is shown in Figure 3-1, with typical depth ranging from 4 feet to over 10 feet.

**Figure 3-1: Channel NE of 110th St West and Avenue of the Stars**



In some locations, these channels concentrate enough flow to create vertical banks on the outside wall of the channel up to 10 feet deep. A channel with this pattern is shown in Figure 3-2.

Both types of channels disperse into sheet flow on the sites, and once sheet flow conditions are re-established there was minimal evidence of scour or deposition. Based on the steep surrounding terrain and minimal evidence of active erosion/deposition, these channels appear to be stable in their alignment.

**Figure 3-2: Scour NE of 110th St West and Avenue of the Stars**



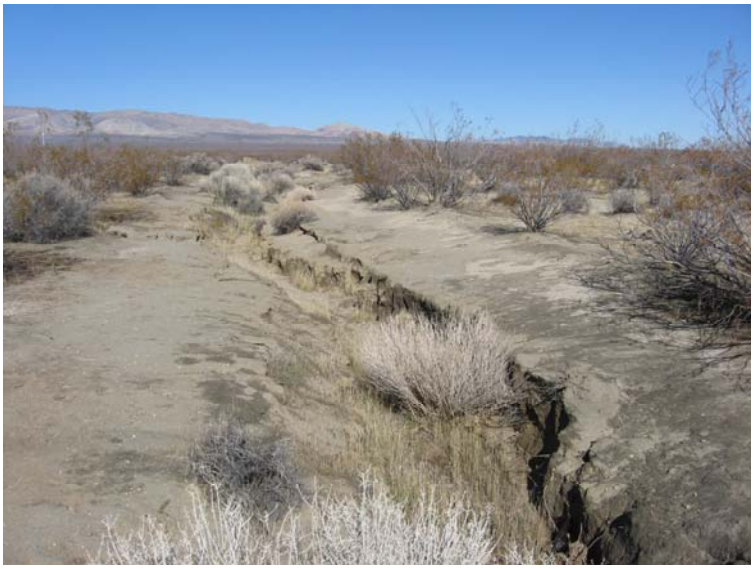
Our investigation of scour patterns showed that within the project vicinity stormwater typically flows across undisturbed sites with minimal scour or deposition. Figure 3-3 shows typical undisturbed sheet flow conditions. This photo was taken downstream of Cottonwood Creek, which is the largest drainage in the study area.

**Figure 3-3: Typical Existing Erosion Patterns**



In areas where runoff is concentrated by man-made features such as roads we observed erosion head-cuts varying in depth from one to two feet, as seen at Rosamond Boulevard and 2nd Avenue intersection (Figure 3-4).

**Figure 3-4: Scour at Rosamond Boulevard and 2nd Avenue**



Our investigation showed negligible local scour at existing power poles and fence posts. We did not observe any evidence of deposition.

## 3.3 Project Site Hydraulics

The 100-year, 24-hour storm event was modeled to provide a range of flow depths and velocities that may occur on the project site. Exhibits in Appendix A show the spread and maximum depth of each model run for each site.

The FLO-2D models include the following scenarios:

| TABLE 3-1: FLO-2D Models | |
|---|---|
| **MODEL** | **DESCRIPTION** |
| 100 Year Event Existing Conditions Onsite | 100 year peak flows, existing topography. |
| 100 Year Event Existing Conditions Offsite | 100 year peak flows, existing topography. |

**Modeling of Defined Channels**

For floodplain models with defined flow paths and channels such as the Rabbitbrush and Chaparral sites, coarser topography will in general result in shallower, slower flow that is spread out in wider flow paths. More refined topography will better represent the flow paths and result in deeper, faster flow that is more confined. The most accurate method for modeling a channel within FLO-2D is to include channel cross sections in the model. This type of modeling is not always warranted but should be evaluated on a case by case basis. Modeling of channels should be considered during final design if the configuration of solar arrays includes panels, roads, or other improvements in the vicinity of defined channels or in the bands of steeper terrain. Existing defined channels were not included in the FLO-2D model for this preliminary level study. The results of the model, coupled with our field investigation, provide a reasonable representation of flood hazard for the purposes of site planning and environmental review.

**Model Results**

For Tumbleweed Solar, the results of the analysis show that runoff over the site is generally shallow sheet flow, with depths below 18 inches and velocity below 3 feet per second. In some areas where runoff ponds against existing berms depths range up to 3 feet.

For Rabbitbrush Solar, the results of the analysis show that over the flatter portions of the site flow depths are typically below 9 inches and velocities are typically below 2 feet per second. The model results also show that within defined channels and in the bands of steeper terrain flow depth varies from 9 inches to 4 feet, and velocity varies between 2 and 6 feet per second. Based on our site investigation, flow in the defined channels on the Rabbitbrush site could reach depths in excess of 8 feet, with depth and velocity expected to exceed those shown in the FLO-2D results.

For Chaparral Solar, the results of the analysis show that over the flatter portions of the site flow depths are typically below 18 inches and velocities are typically below 2 feet per second. The model results also show that within defined channels and in the bands of steeper terrain flow depth varies from 18 inches to 3 feet, and velocity varies between 2 and 15 feet per second. Based on our site investigation, flow in the defined channels on the Chaparral site could reach depths in excess of 10 feet, with depth and velocity expected to exceed those shown in the FLO-2D results.

It is important to note that the modeled flow across the site represents existing topographic conditions upstream of the project. Upstream unimproved channels could move and shift over time, which may also change the locations of stormwater flow on each of the project sites.

# SECTION 4

## RISK MANAGEMENT

## 4.1 Risk Factors

At all three AVEP Solar sites, larger storm events will likely result in erosion and the need for repairs and maintenance. This potential is greater during less frequent storm events, during which erosion could be significant. Larger storms have increased depth and velocity of flow.

Risks during storms include:

- General scour or deposition (long term lowering or raising of the surface)
- Pier scour
- Redirected flow paths
- Erosion or blockages at fences
- Flash flooding

## 4.2 Scour

Two types of potential scour that may occur at the AVEP Solar sites are general scour and local (pier) scour. General scour is the long term lowering of the ground surface due to sediment transport, and pier scour is the localized condition that can occur at the support posts for the solar arrays. Local scour and general scour are considered additive. Scour depths were not evaluated as a part of this report, but are anticipated to be evaluated and considered as a part of final engineering design.

## 4.3 Freeboard

Solar arrays will have a minimum of one-foot of freeboard above 100-year water surface elevation, in accordance with Kern County design standards. PCS structures will also have a minimum of one-foot of freeboard, achieved by grading elevated pads or constructing raised foundations for each structure.

## 4.4 Erosion Risk Management

This desert environment is one in which erosion and deposition naturally occurs from both rain and wind. This can be expected to occur on the project sites, and the associated maintenance must also be expected. However, with the ground disturbance that results from the construction process, the erosion potential is increased during and immediately following construction. The selection of erosion control measures depends on many factors, and will be determined by the project team as a part of final engineering design.

Potential for erosion is also increased when flows are concentrated. To minimize this risk, we recommend that site grading is designed to maintain sheet flow conditions. However, even with

sheet flow conditions shallow flow paths could form over time, leading to more concentrated flow. The existing erosion area along 2nd Avenue (Figure 3-4) is a good example of the type of erosion that could occur if flows become concentrated. We recommend that the developed site be inspected following rain events and areas of erosion or concentrated flow be repaired as necessary. If onsite erosion becomes an issue during the life of the project, erosion areas could be filled with angular rock to help armor the soil surface.

## 4.5 Watershed Dynamics

The FLO-2D analysis presented in this report is based on the current topographic conditions of the watershed, and assumes static conditions (e.g. no scour or deposition).

The drainage channels upstream from the site are characterized by shallow depths with meandering and braided alignments. Channels of this type can have a tendency to shift location or direction of flow over time. Realignments can occur from sediment deposition, channel scour, or both. Due to this dynamic nature of the watershed, flow paths across each site may also form or change throughout the life of the project.

There are well defined drainage channels on the Rabbitbrush and Chaparral sites, though site drainage is predominantly characterized by shallow sheet flow conditions. The areas of channelized flow primarily appear to be deep, stable channels that formed in steeper portions of the site, and disperse to shallow sheet flow when land slopes decrease. There are also defined channels within the flatter portions of the site that have a higher risk of shifting alignment. Based on the results of the FLO-2D analysis, solar development within the defined channels and in the steeper bands of terrain would have much higher risk of erosion due to the higher flow depths and velocities. During final design, we recommend that these areas be avoided if possible, and if not avoided that channel modeling be performed to define the depths and velocities more precisely and to determine necessary protective measures.

There are no visible channels on the Tumbleweed site. It is possible that prior storms created shallow channelized flow paths on the site that were subsequently graded as part of the prior farming operations.

The sites may undergo many years with little to no erosion, dependent on weather conditions. However, it is reasonable to assume that a thunderstorm and/or flash flood could result in erosion channels forming through flood paths.

We observed during our site investigation that many of the unpaved roads in the project vicinity are lower in elevation than the adjacent parcels. These lower roads will have a tendency to concentrate and redirect flow upstream the project site. These roads may route runoff from smaller storms around the project site, but are anticipated to overtop during larger storm events. Offsite grading of existing roads or grading new roads upstream of the project could alter the path of stormwater flowing to the project site.

## 4.6 Fence Maintenance

Fencing installed in the path of stormwater flow will likely accumulate sediment, vegetation, and debris over time. However, since upstream drainage patterns may change over time it is not possible to determine location of flow over the life-span of the project, and some sediment accumulation is unavoidable. We recommend a maintenance program to clear site fencing on a regular basis and prior to predicted storm events. Maintenance considerations should also include property rights and access to both sides of the fencing.

## 4.7 Flash Flooding

The proposed project site is located in a region with potential for flash flooding. If a flash flood does occur due to upstream rainfall, the site could experience stormwater flow even if it is not raining onsite. It is recommended that a standard protocol be developed for contacting personnel responsible for onsite operations and maintenance in the case that flash flooding conditions are predicted.

# SECTION 5

## SUMMARY AND CONCLUSIONS

## 5.1 Existing Site Conditions

The area of the AVEP solar project consists of relatively flat land, with some areas of steeper slopes and rolling topography on the Rabbitbrush and Chaparral sites. Site drainage is primarily shallow sheet flow, with some well-defined channels in the steeper terrain. Regional watersheds draining to each of the three sites are large and characterized by steep upper canyons transitioning to sheet flow and shallow concentrated flow through alluvial fans spreading across the Antelope Valley. Multiple significant ephemeral drainages cross the study area, most notably Cottonwood Creek and Oak Creek. All three sites are tributary to Rosamond Dry Lake. Soils on the three sites are primary NRCS HSG A and B, with some areas of HSG C and D. Generally, the soils on the project site are loam, loamy sand, and sandy loam.

## 5.2 Proposed Improvements

The proposed project is three solar photovoltaic (PV) generation facilities with a total developed area of approximately 2069 acres, including all the facilities necessary for those facilities (solar modules, roads, substations, transmission systems, etc.).

## 5.3 Analysis Methods

Wallace Group prepared a hydrologic and hydraulic analysis of the project sites and upstream watersheds. Three models were developed for each site to analyze flow depths and velocities in existing conditions. Those three models and their purposes are as follows:

- Upstream Watershed CivilD model: Quantify runoff from the upstream sub-watersheds and provide inflow hydrographs to the Offsite FLO-2D model.
- Offsite FLO-2D model: Translate inflow hydrographs from CivilD to depth and velocity of flow across the floodplain upstream of each of the project sites. Provide inflow hydrographs to Onsite FLO-2D model.
- Onsite FLO-2D model: Provide depth and velocity of flow on each of the project sites and adjacent areas.

In addition to the FLO-2D models, flood risks were reviewed visually through a field investigation.

Proposed conditions models were not developed as a part of this analysis. No changes in sub-watershed boundaries are proposed and the project will result in negligible impervious cover. Therefore, the hydrologic analysis parameters are the same for existing and proposed site conditions, and post-development peak flow rates on the project site are assumed to mimic existing conditions.

## 5.3 Model Results

The results of our FLO-2D models for all three sites are summarized in Table 5-1, below.

**TABLE 5-1**
**FLO-2D Model Results**

| Results | Site | | |
|---|---|---|---|
| | Tumbleweed | Rabbitbrush | Chaparral |
| Typical Velocities (fps) | 0-3 | 0-2 | 0-2 |
| Typical Depths (in) | 0-18 | 0-9 | 0-18 |
| Maximum Velocity (fps) | 6 | 6 | 15 |
| Maximum Depth (in) | 48 | 96 | 60 |

Based on our site investigation, flow in the defined channels of the Rabbitbrush site could reach depths in excess of 8-feet, and flow in the defined channels of the Chaparral site could reach depths in excess of 10-feet. Depth and velocity in the defined channels are expected to exceed those shown in the FLO-2D results.

## 5.4 Risk Management

At all three AVEP Solar sites, larger storm events will likely result in erosion and the need for repairs and maintenance. This potential is greater during less frequent storm events, during which erosion could be significant. Larger storms have increased depth and velocity of flow.

Risks during storms include:

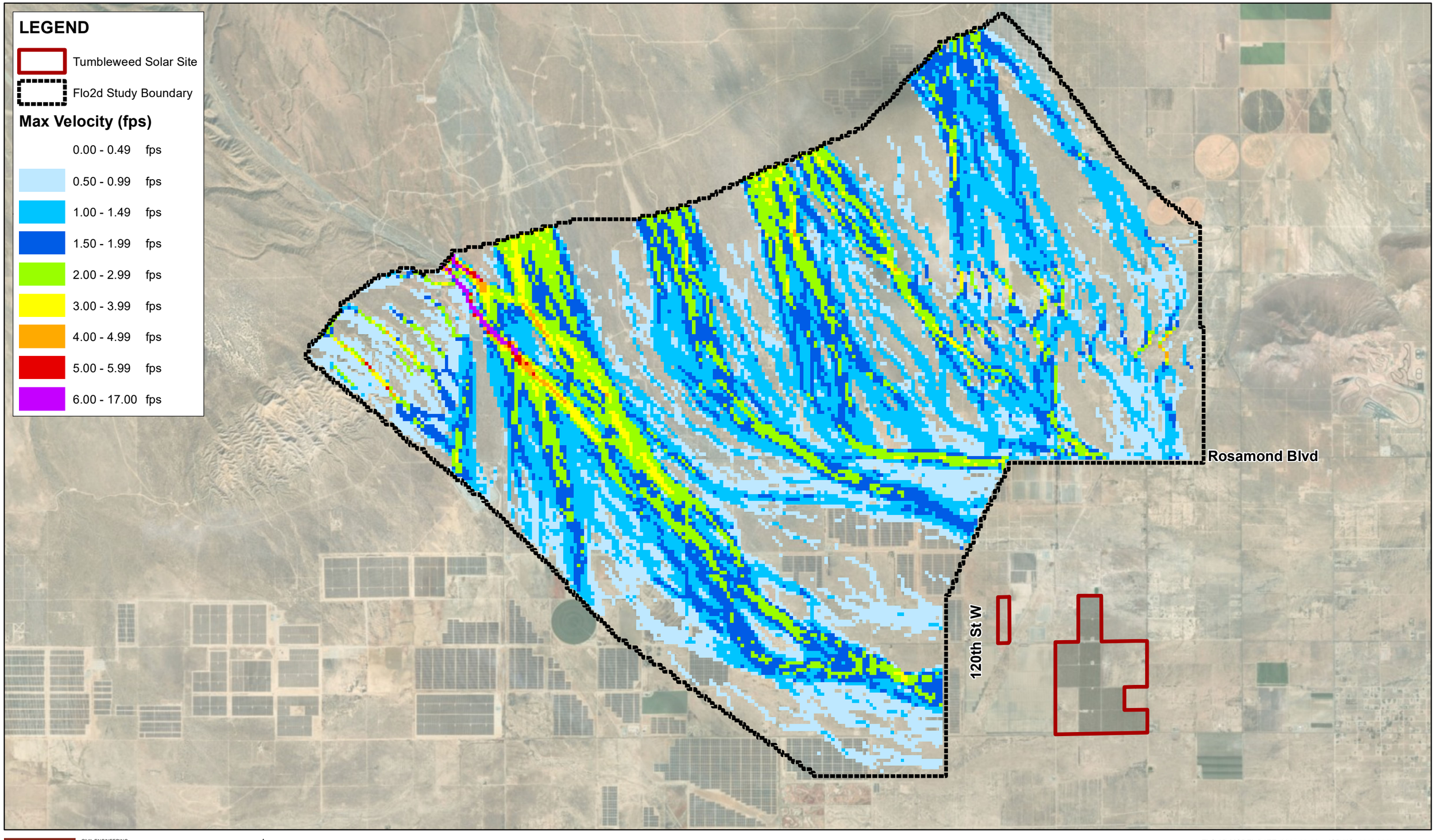
- General scour or deposition (long term lowering or raising of the surface)
- Pier scour
- Redirected flow paths
- Erosion or blockages at fences
- Flash flooding

These risks can be addressed through various measures, and with risk management measures in place are not anticipated to cause changes to flood risk downstream of the project site.

There are well defined drainage channels on the Rabbitbrush and Chaparral sites, though site drainage is predominantly characterized by shallow sheet flow conditions. The areas of channelized flow primarily appear to be deep, stable channels that formed in steeper portions of the site and disperse to shallow sheet flow when land slopes decrease. There are also defined channels within the flatter portions of the site that have a higher risk of shifting alignment. Based on the results of the FLO-2D analysis, solar development within the defined channels and in the steeper bands of terrain would have much higher risk of erosion due to the higher flow depths and velocities. During final design, we recommend that these areas be avoided if

possible, and if not avoided that channel modeling be performed to define the depths and velocities more precisely and to determine necessary protective measures.

# APPENDIX A
## FLO-2D EXHIBITS




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1 inch = 5,000 Feet

0 5,000 Feet

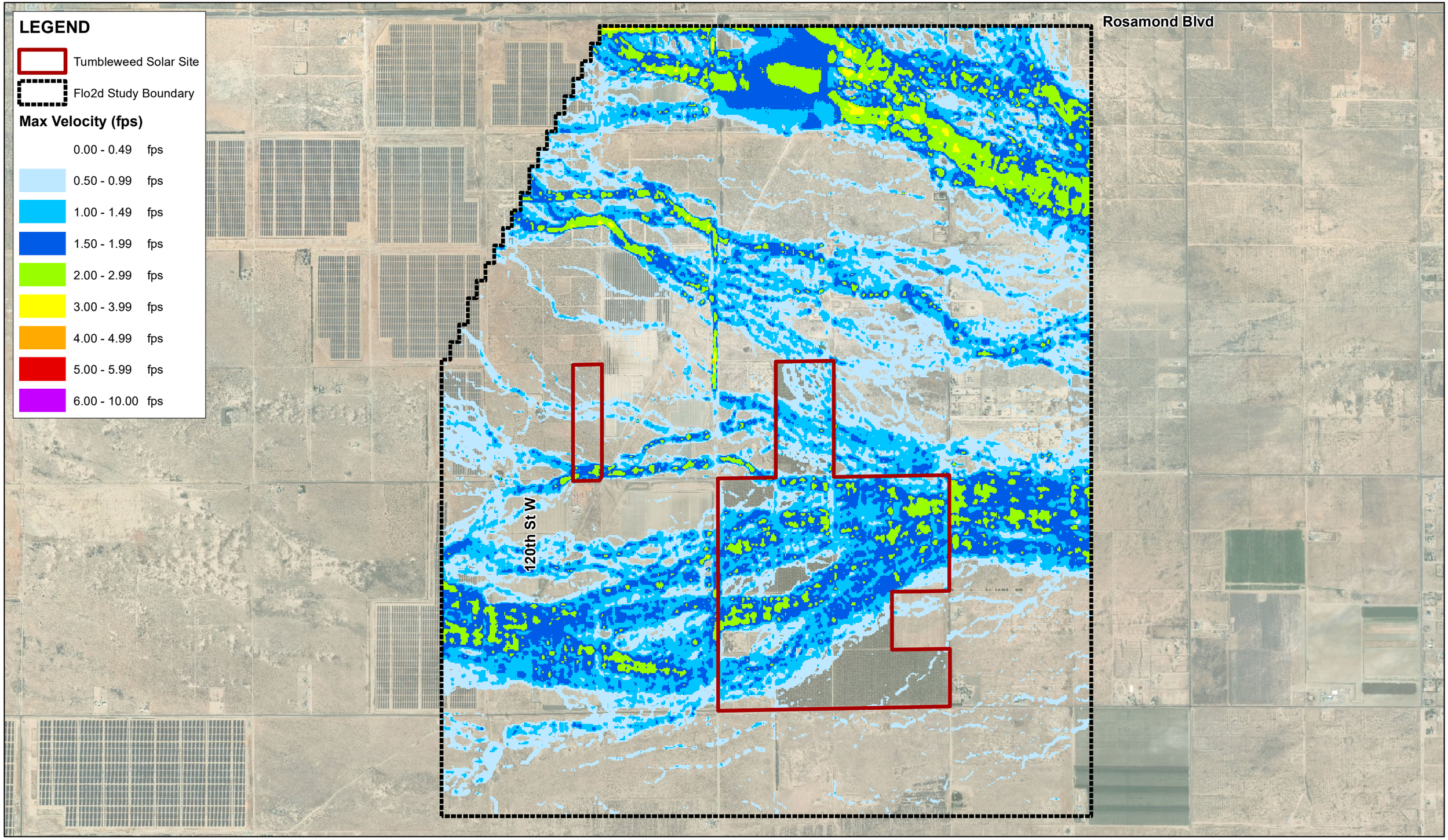
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
MAP DOC: FLO2D RESULTS
CREATED BY: MB
DATE: OCTOBER 07, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.




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1 inch = 2,000 Feet

0 2,000 Feet

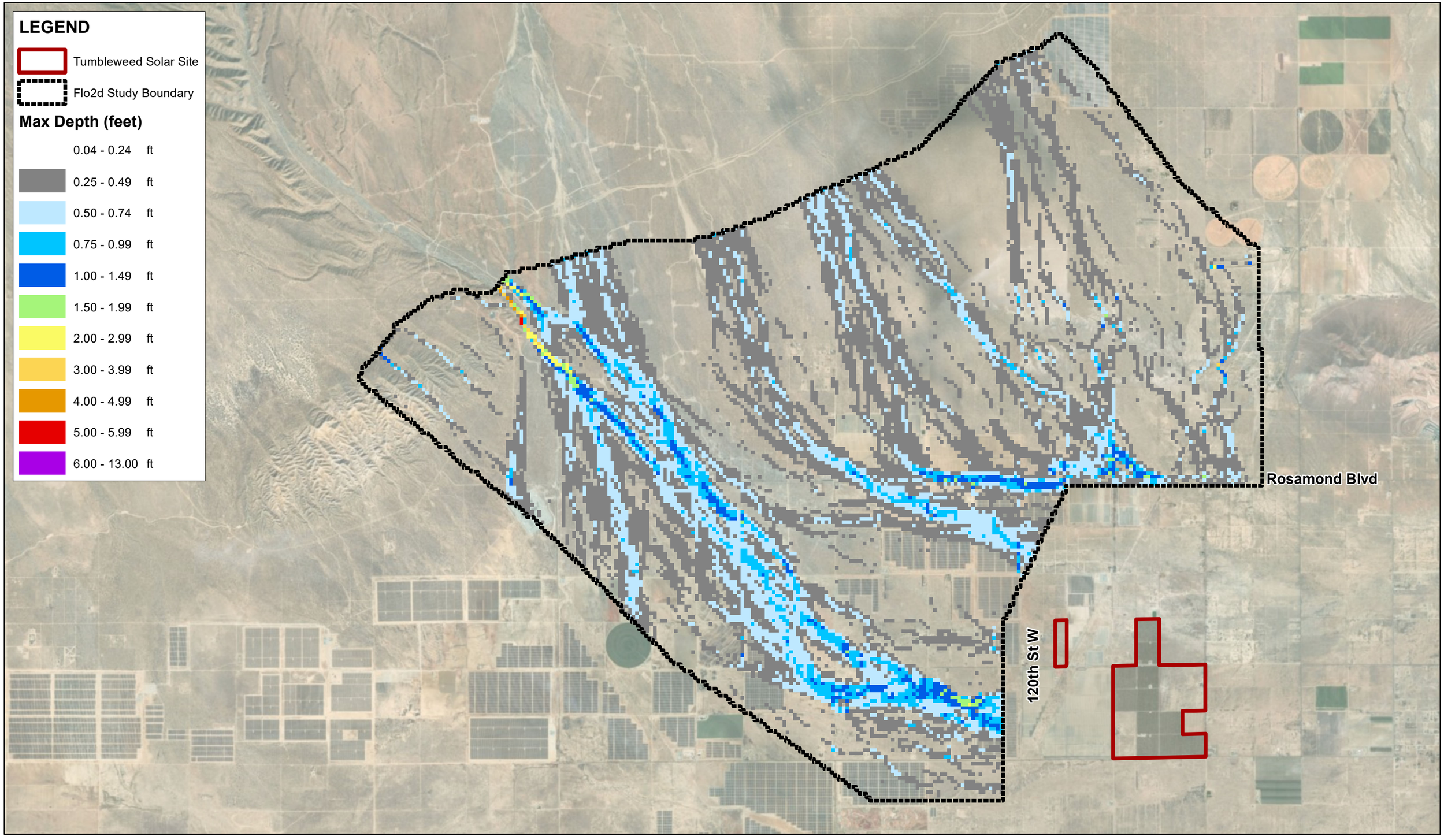
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
MAP DOC: FLO2D RESULTS
CREATED BY: MB
DATE: OCTOBER 07, 2019

EXHIBIT NOTES:
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1 inch = 5,000 Feet

0 5,000 Feet

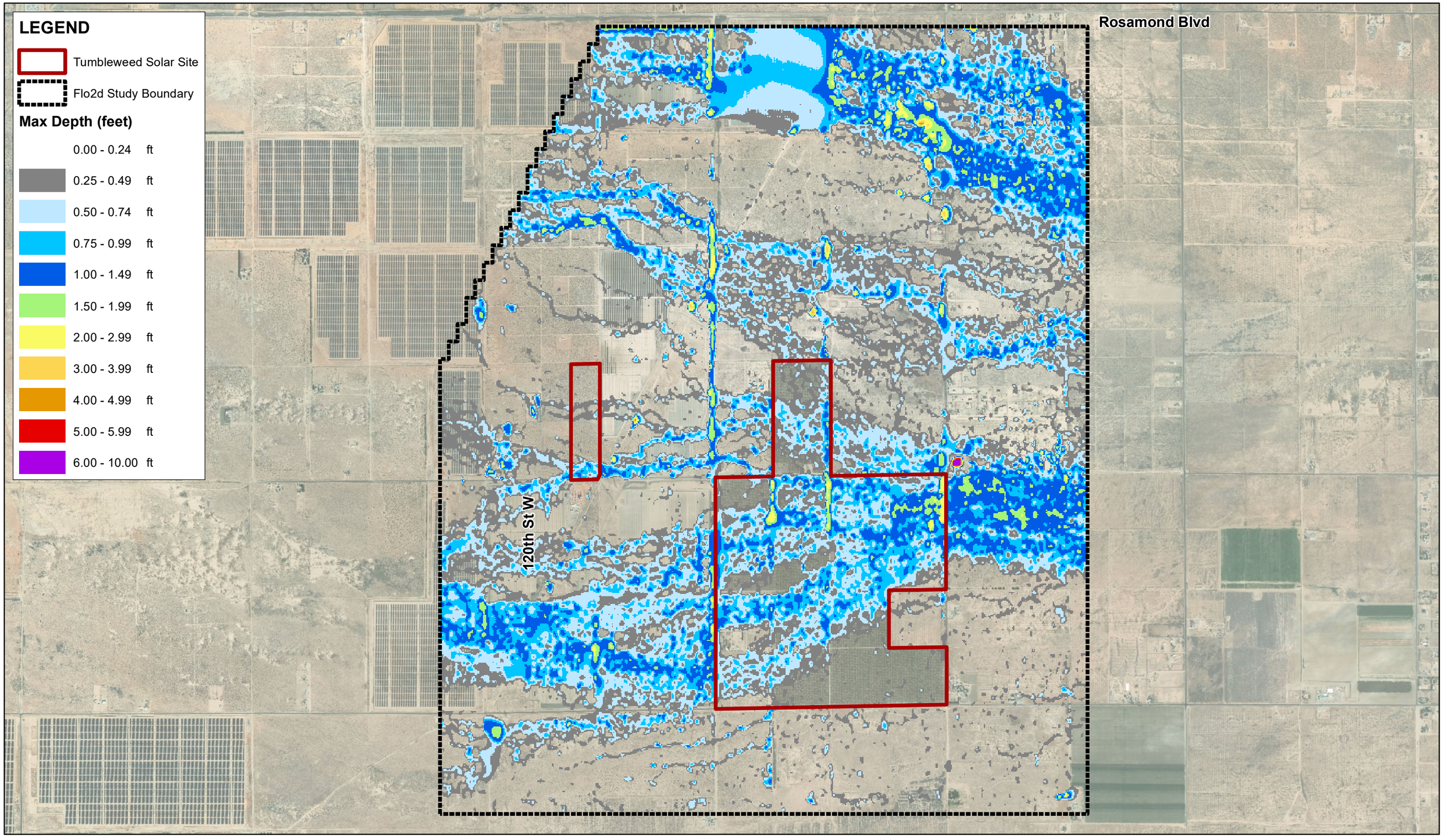
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
MAP DOC: FLO2D RESULTS
CREATED BY: MB
DATE: OCTOBER 07, 2019

EXHIBIT NOTES:
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1 inch = 2,000 Feet
0 2,000 Feet

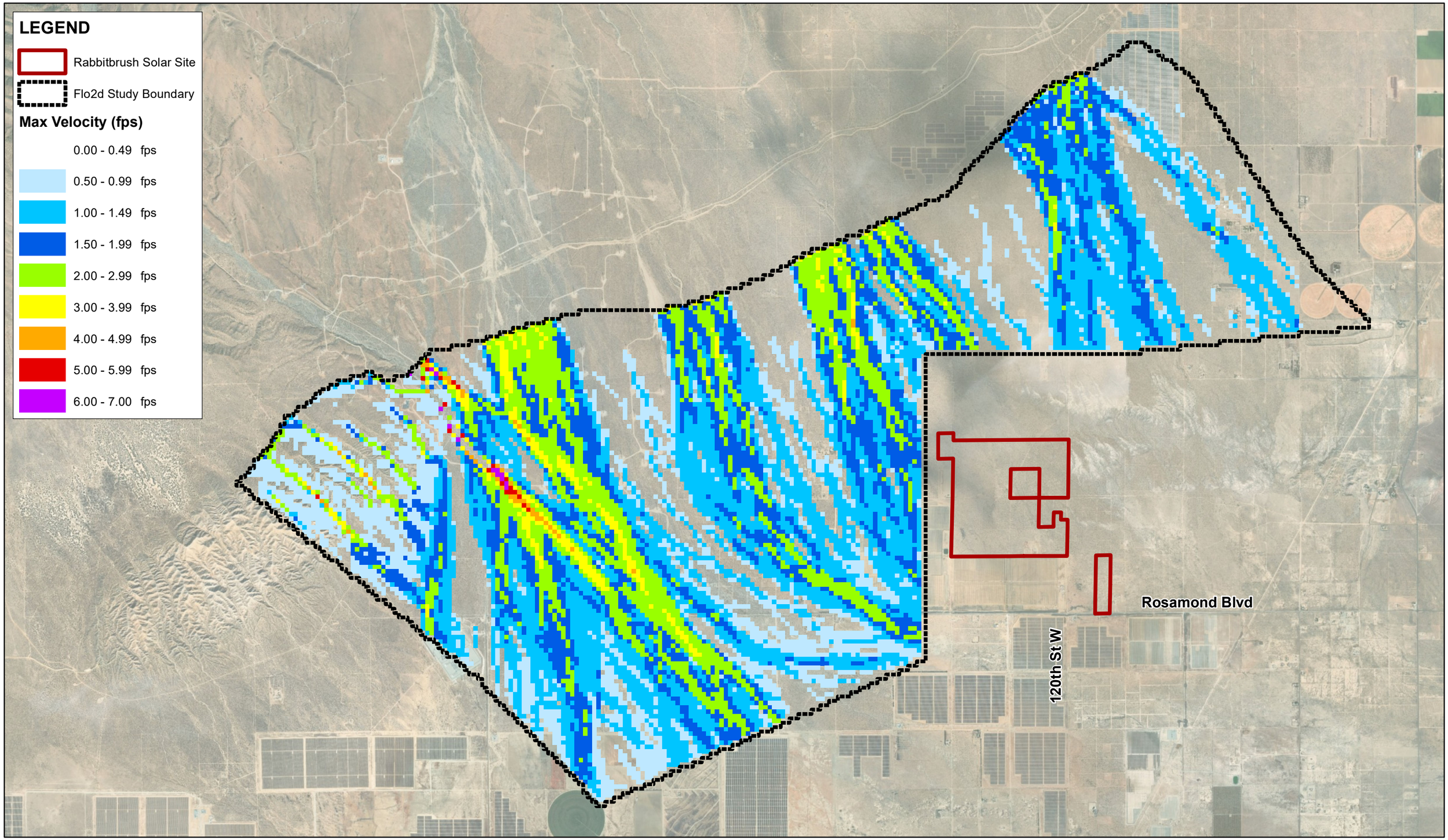
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
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1 inch = 4,000 Feet

0 4,000 Feet

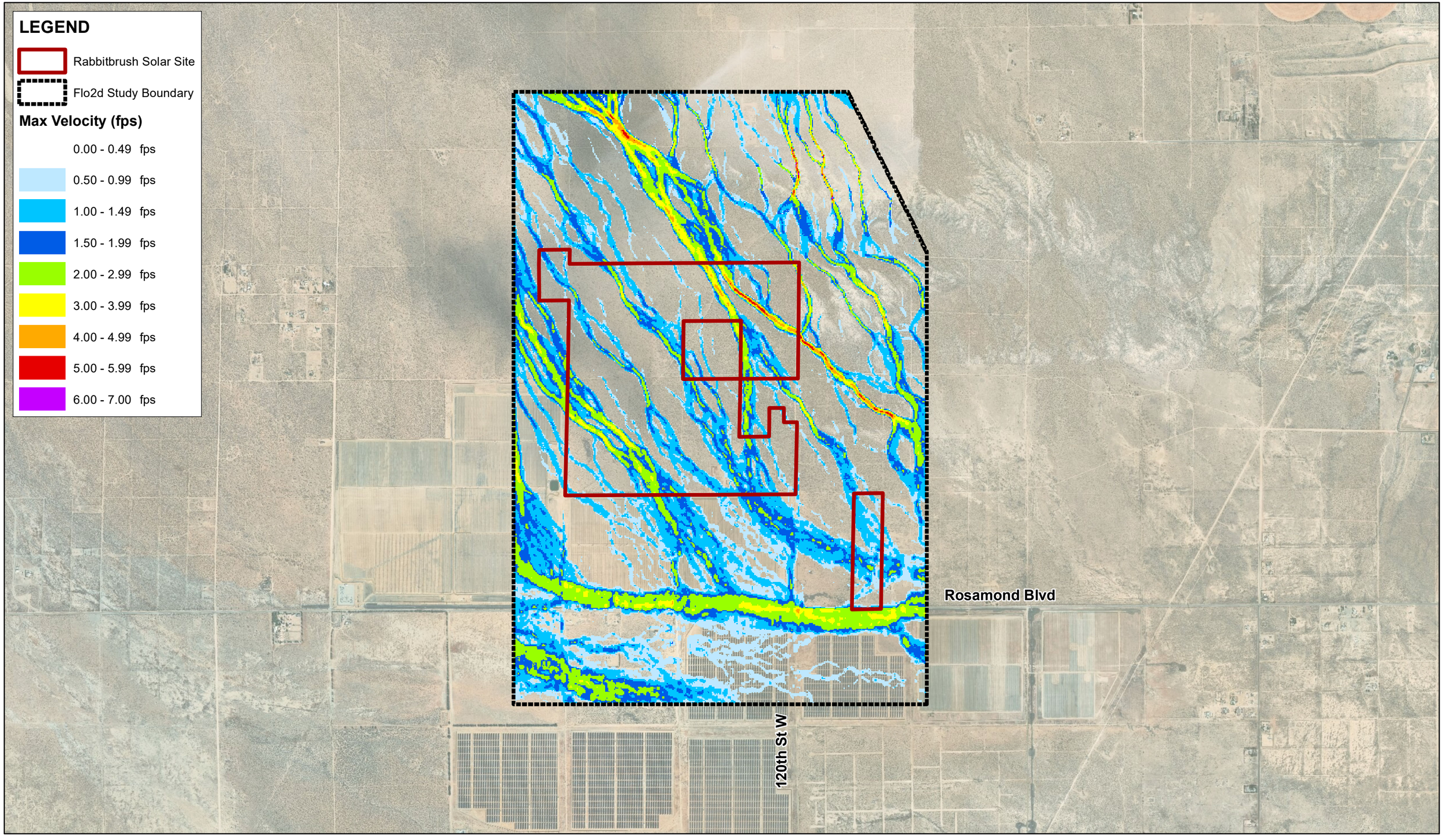
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-20

JOB NO: 1019-0150
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
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1 inch = 2,000 Feet

0 2,000 Feet

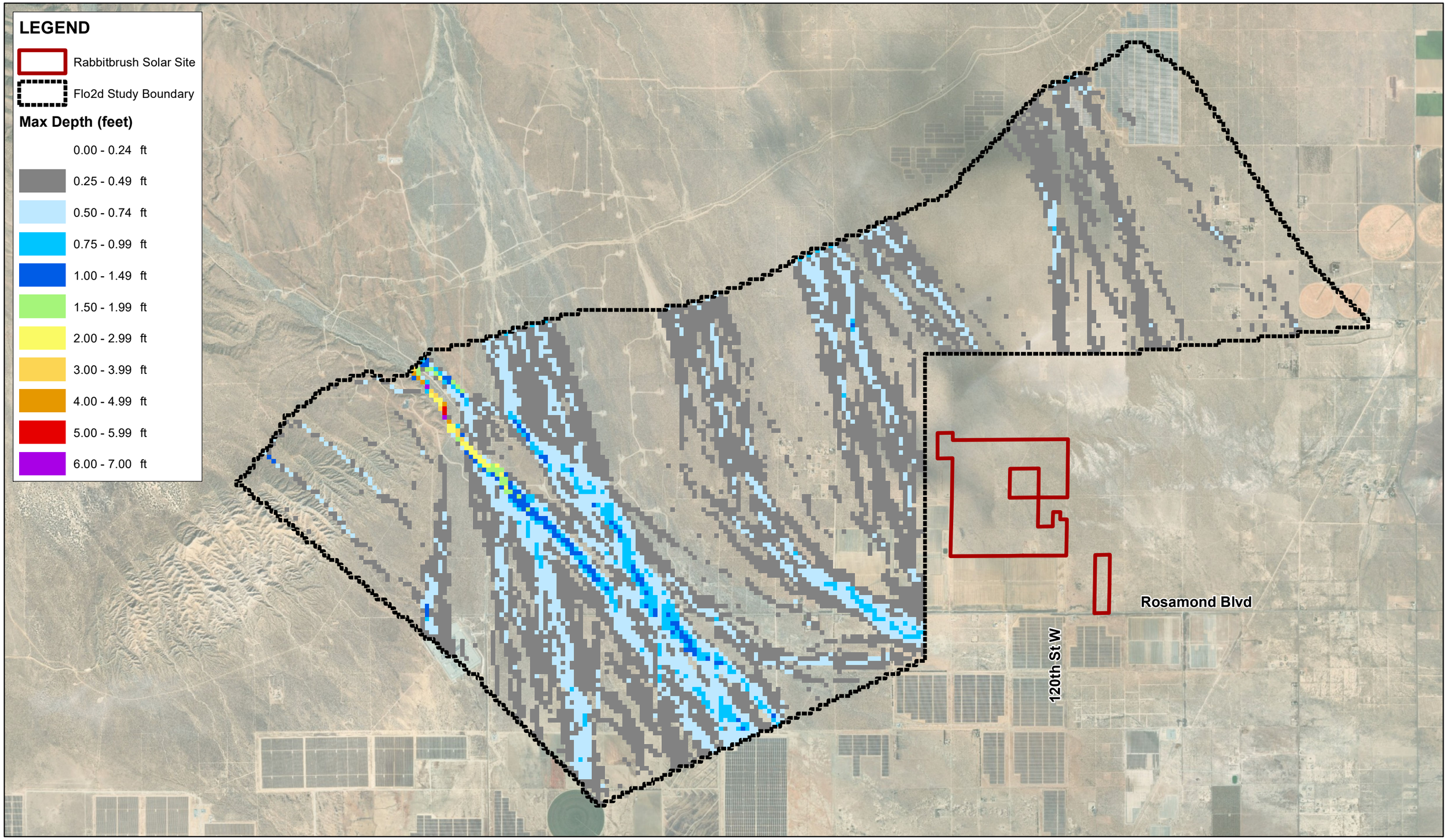
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-20

JOB NO: 1019-0150
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

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1 inch = 4,000 Feet

0 4,000 Feet

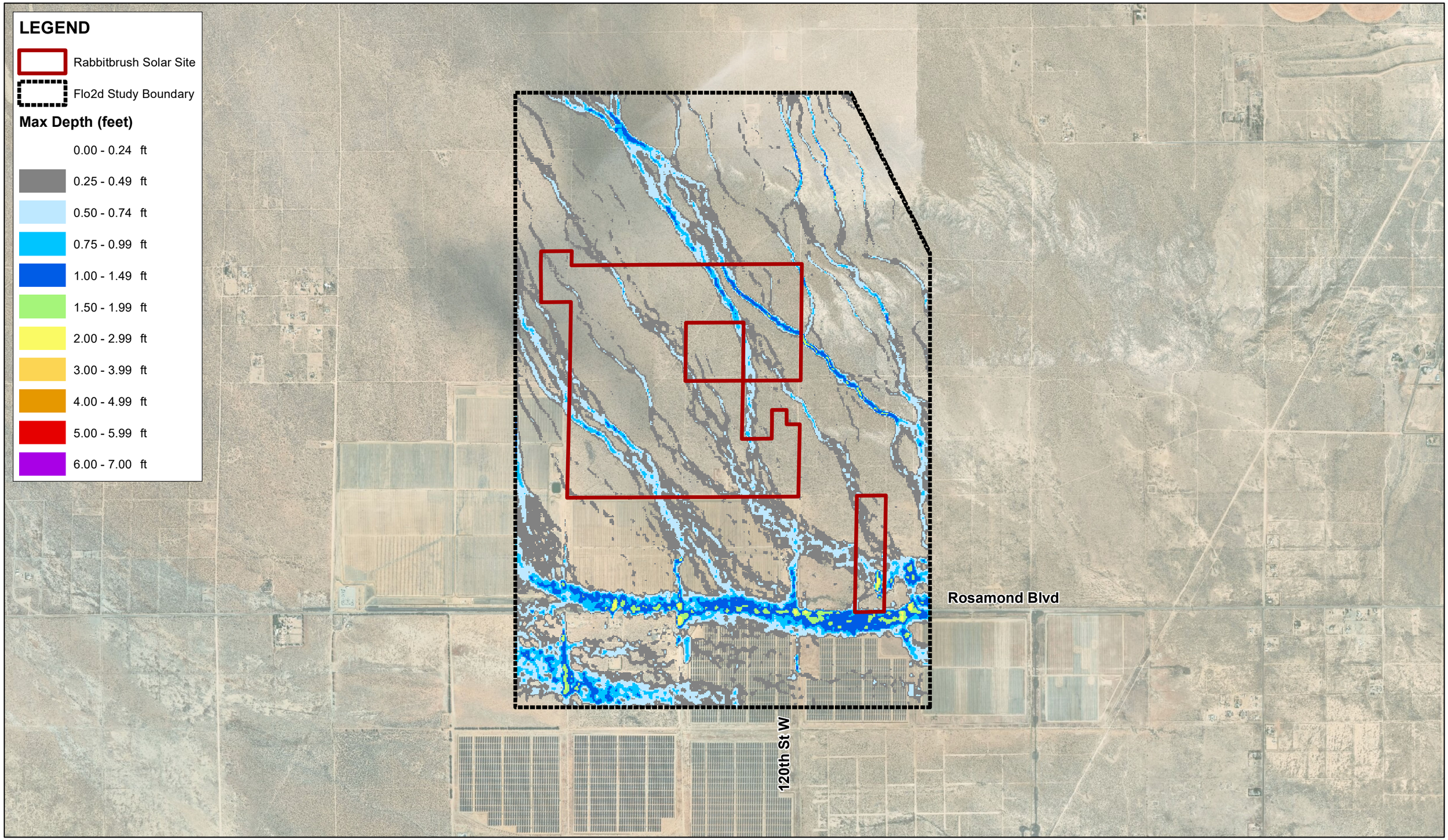
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-20

JOB NO: 1019-0150
MAP DOC: FLO2D RESULTS
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DATE: OCTOBER 07, 2019

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1 inch = 2,000 Feet
0 2,000 Feet

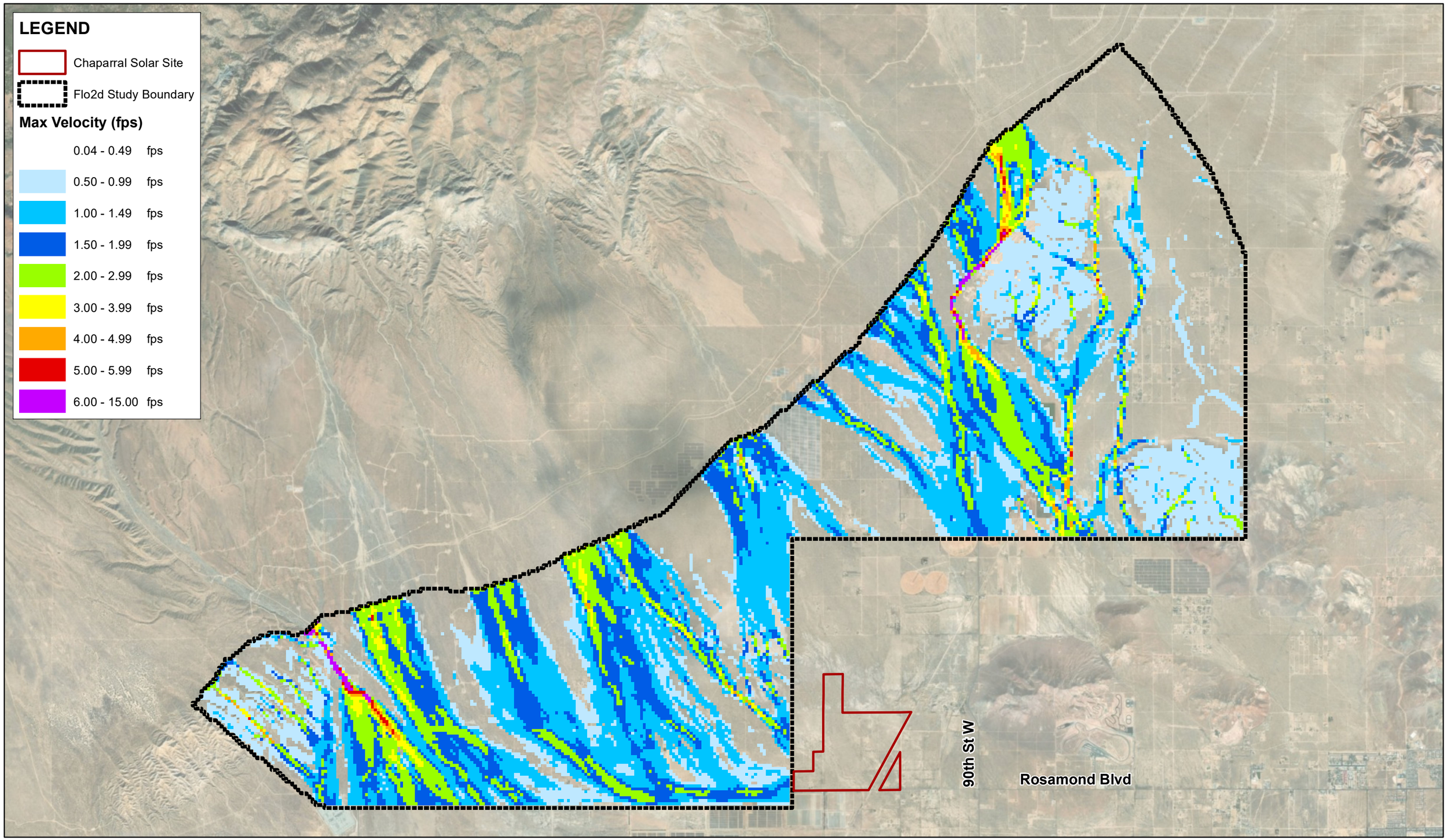
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-20

JOB NO: 1019-0150
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1 inch = 6,000 Feet

0 6,000 Feet

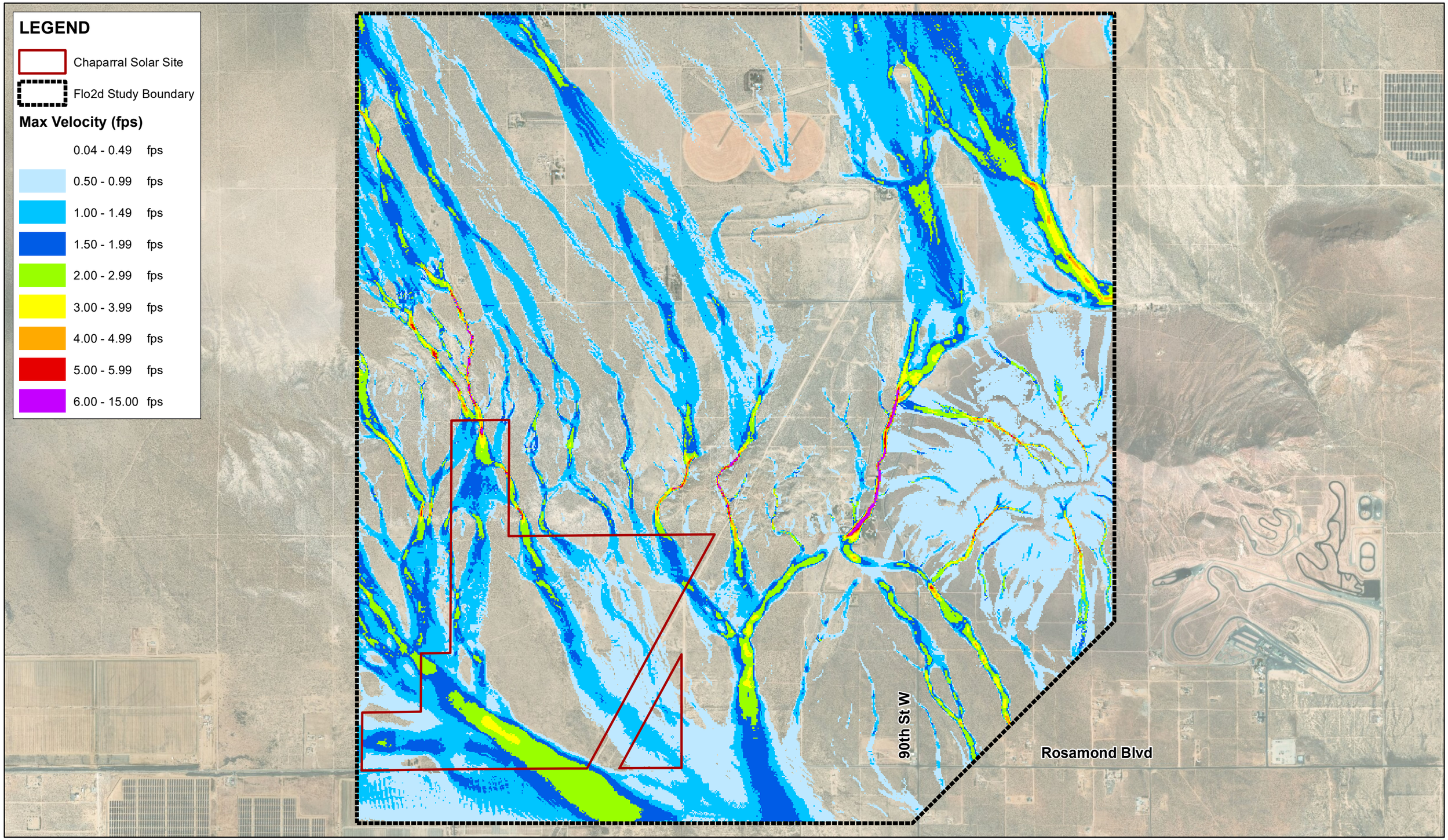
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-06-14

JOB NO: 1019-0160
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 7, 2019

EXHIBIT NOTES:
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1 inch = 2,000 Feet
0 2,000 Feet

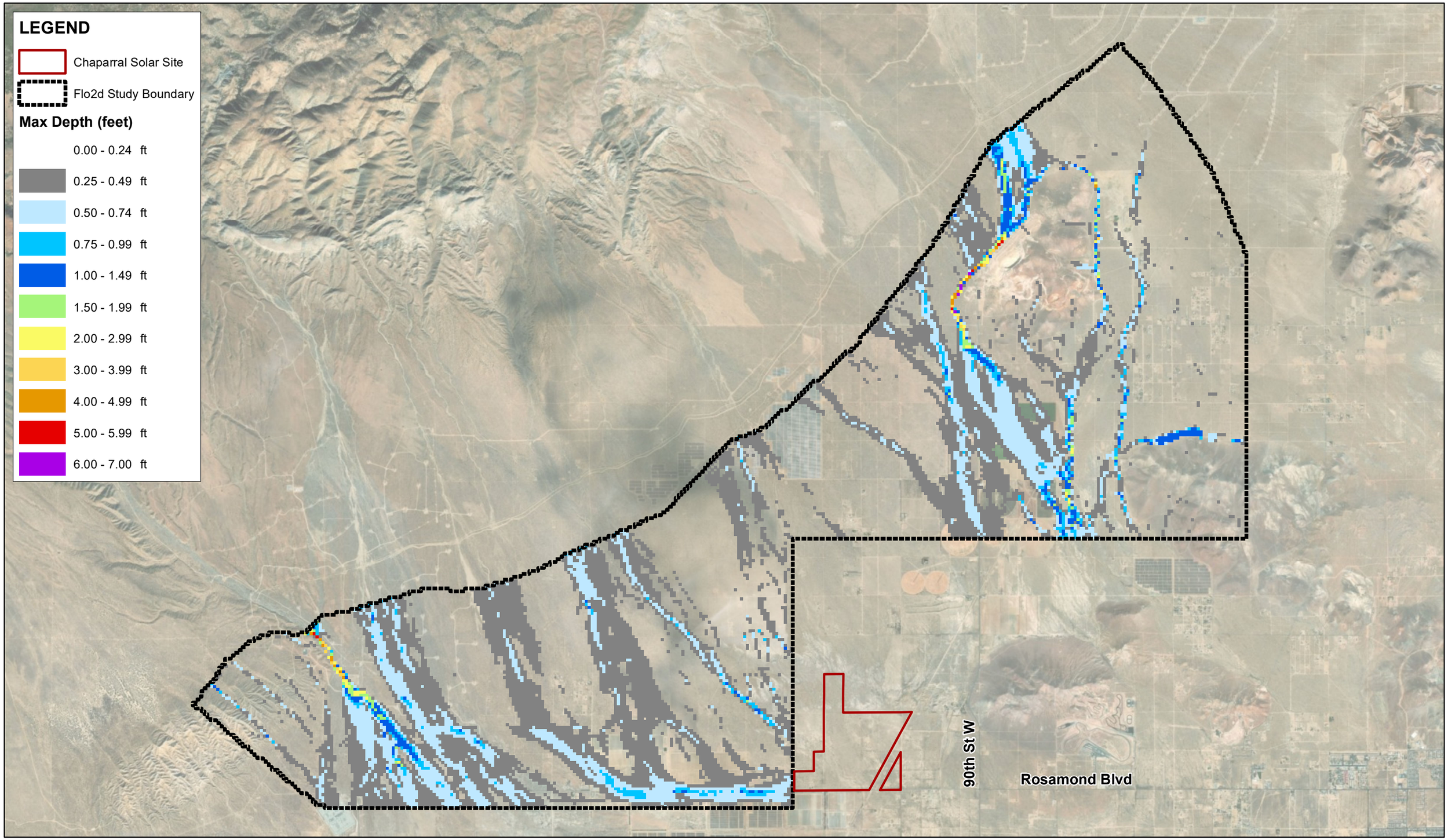
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-06-14

JOB NO: 1019-0160
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 7, 2019

EXHIBIT NOTES:
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1 inch = 6,000 Feet

0 Feet 6,000

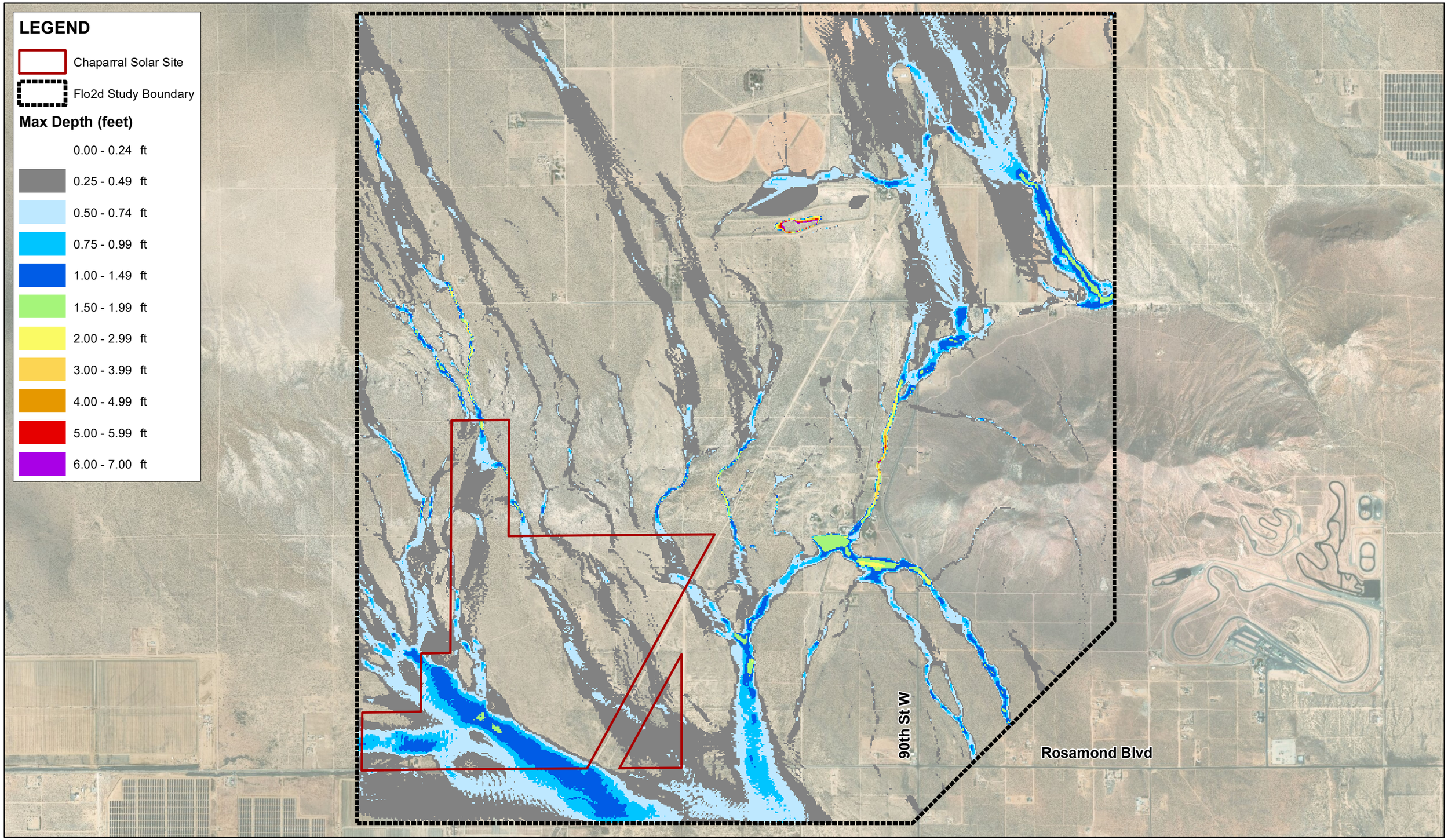
# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *OFFSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-06-14

JOB NO: 1019-0160
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 7, 2019

EXHIBIT NOTES:
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1 inch = 2,000 Feet
0 2,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

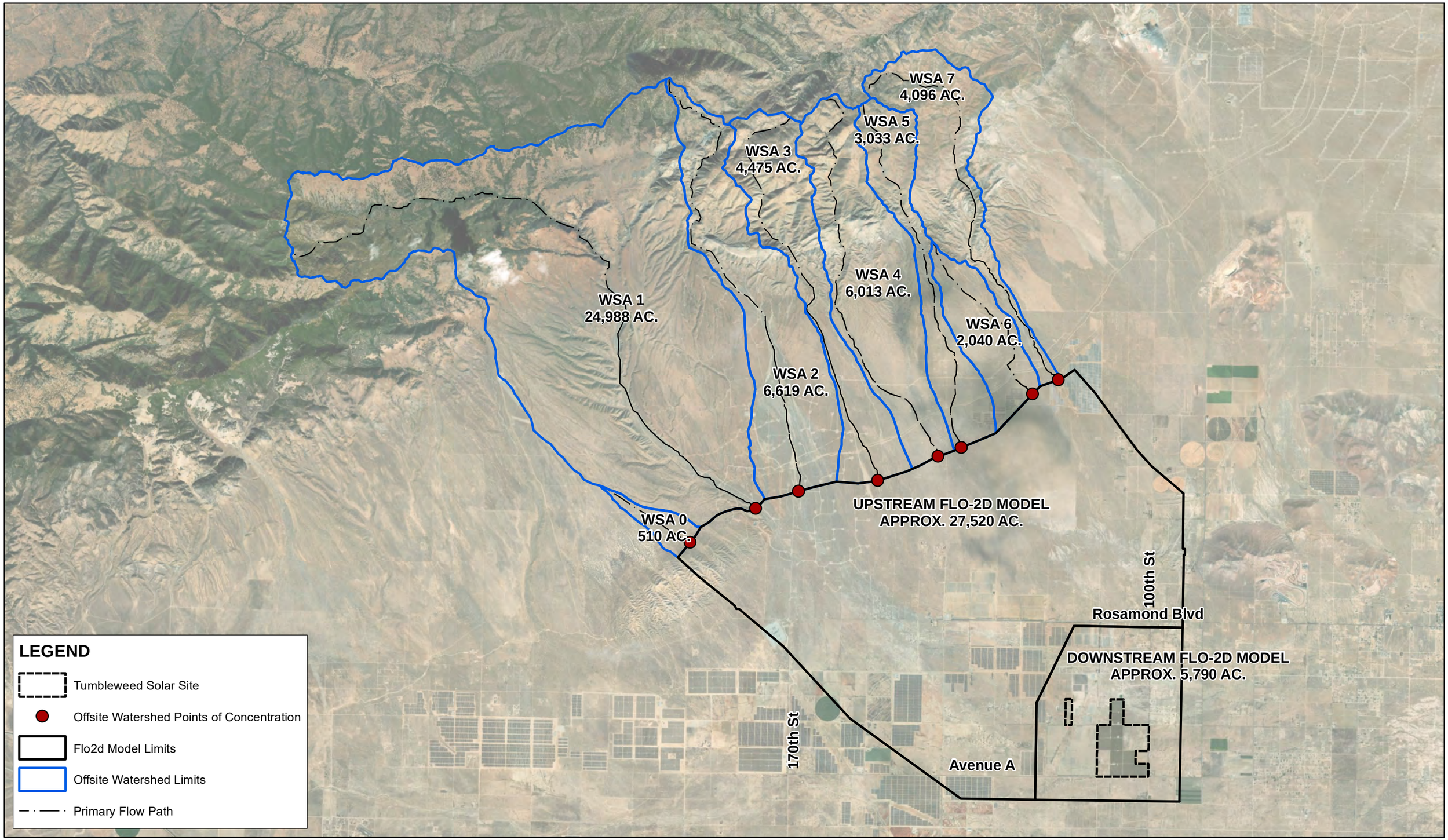
## *CHAPARRAL SOLAR SITE*
## *ONSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-06-14

JOB NO: 1019-0160
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 7, 2019

EXHIBIT NOTES:
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# APPENDIX B
## HYDROLOGY MAPS




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1 inch = 9,000 Feet

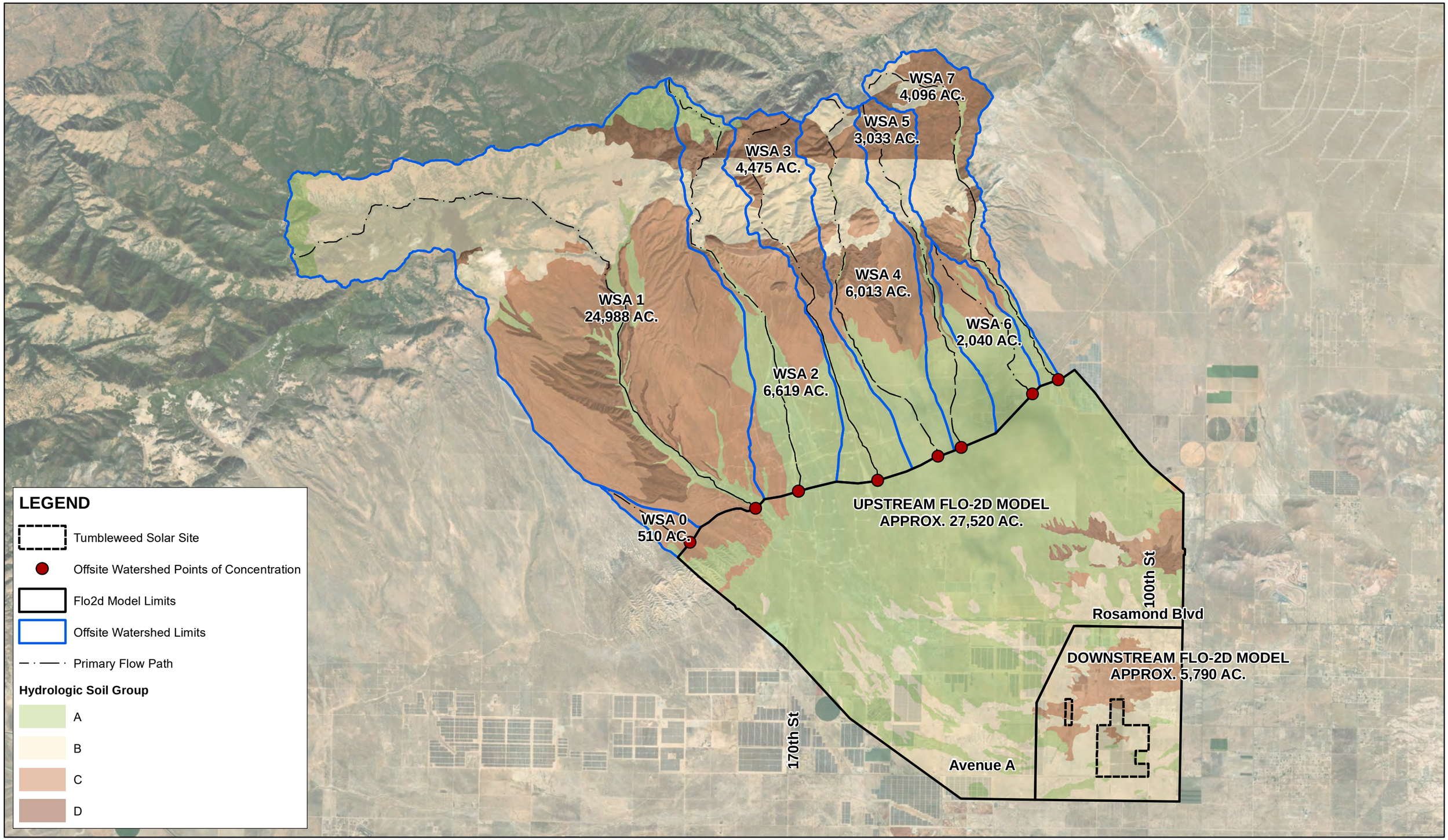
0 Feet 9,000

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *WATERSHED INFORMATION MAP*

JOB NO: 1019-0140
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
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1 inch = 9,000 Feet

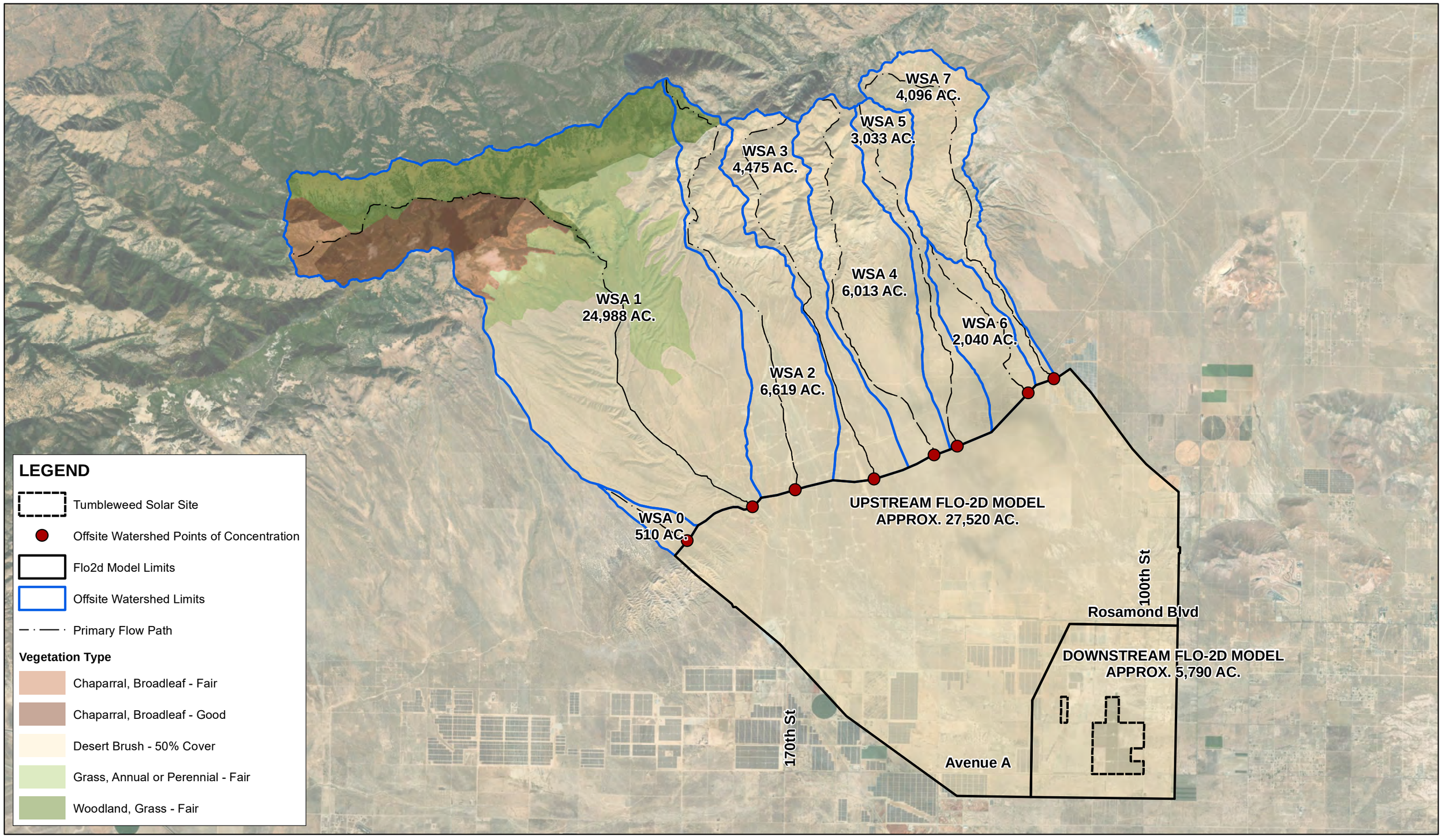
0 9,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *HYDROLOGIC SOIL GROUP MAP*

JOB NO: 1019-0140
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
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BASE MAP BY ESRI.




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1 inch = 9,000 Feet

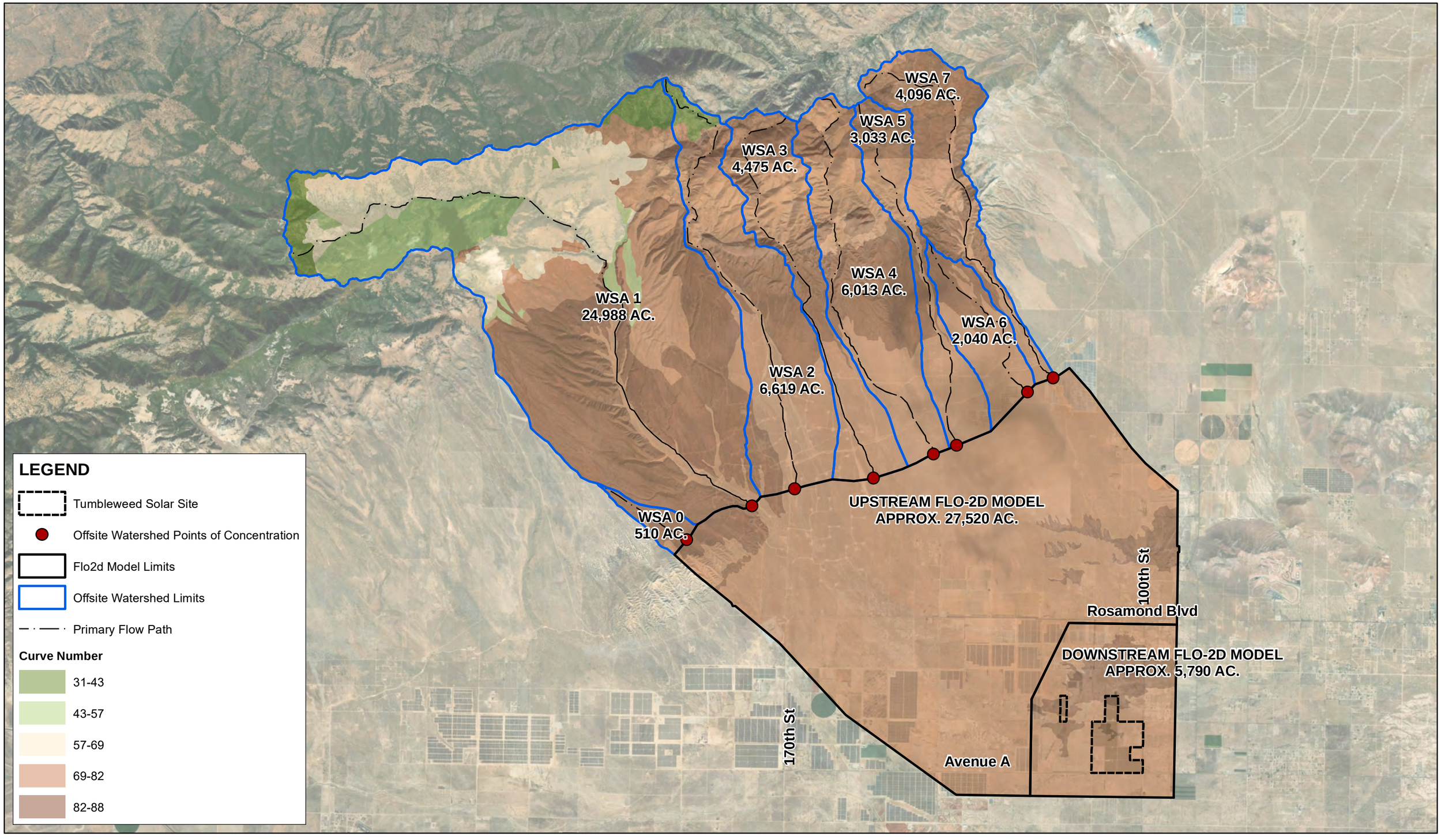
0 9,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *VEGETATION TYPE MAP*

JOB NO: 1019-0140
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
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1 inch = 9,000 Feet

0 9,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *TUMBLEWEED SOLAR SITE*
## *CURVE NUMBER MAP*

JOB NO: 1019-0140
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP.
BASE MAP BY ESRI.

# NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit its website at http://www.ngs.noaa.gov/.

**Base map** information shown on this FIRM was derived from USDA - Farm Service Agency - Aerial Photography Field Office dated 2005 and from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1992 or later.

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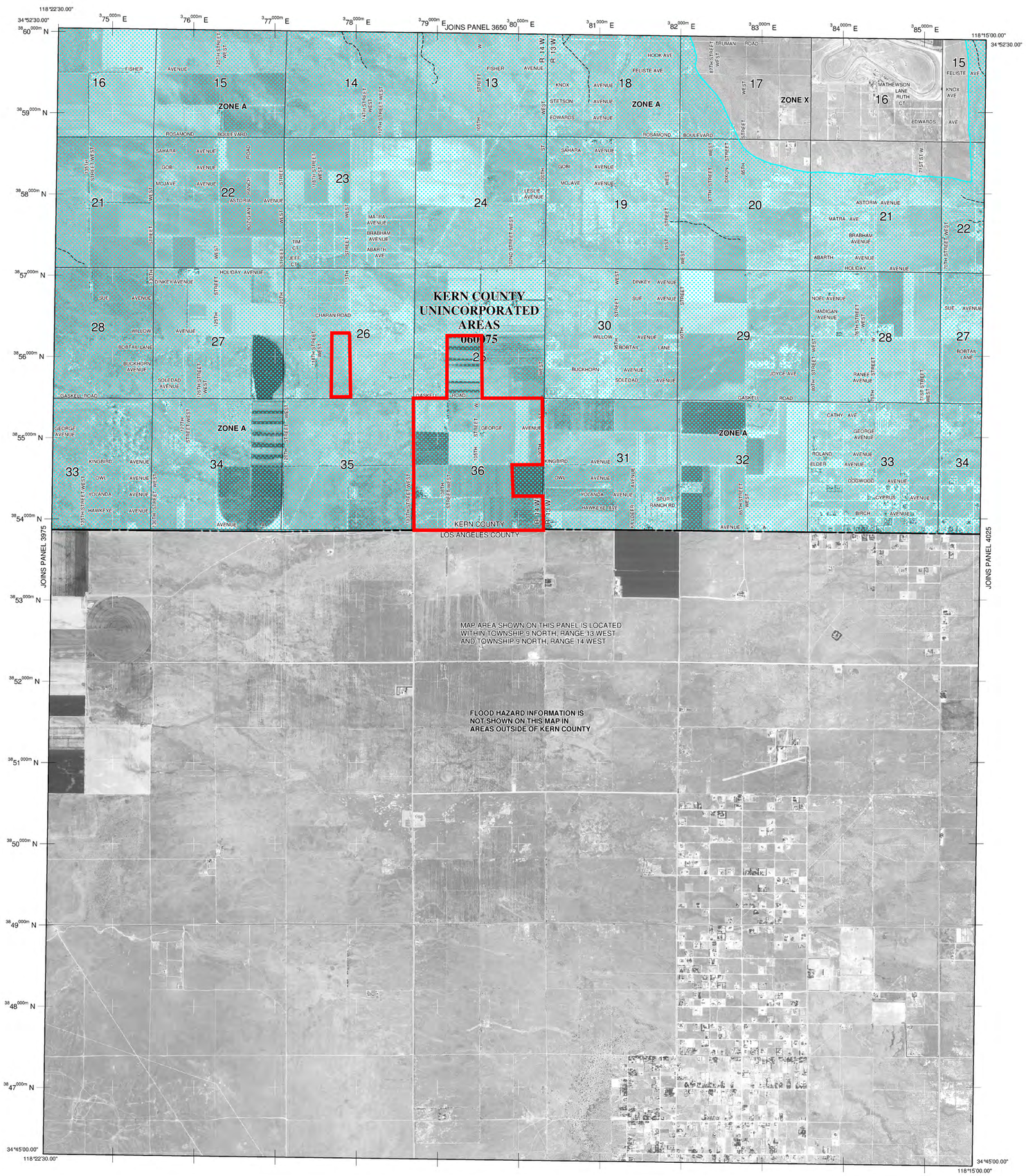
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AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY (DRAFT)
TUMBLEWEED SOLAR SITE




# LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275 000mN — 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 M — 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 4000E**

# FIRM

## FLOOD INSURANCE RATE MAP

## KERN COUNTY, CALIFORNIA

## AND INCORPORATED AREAS

**PANEL 4000 OF 4125**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

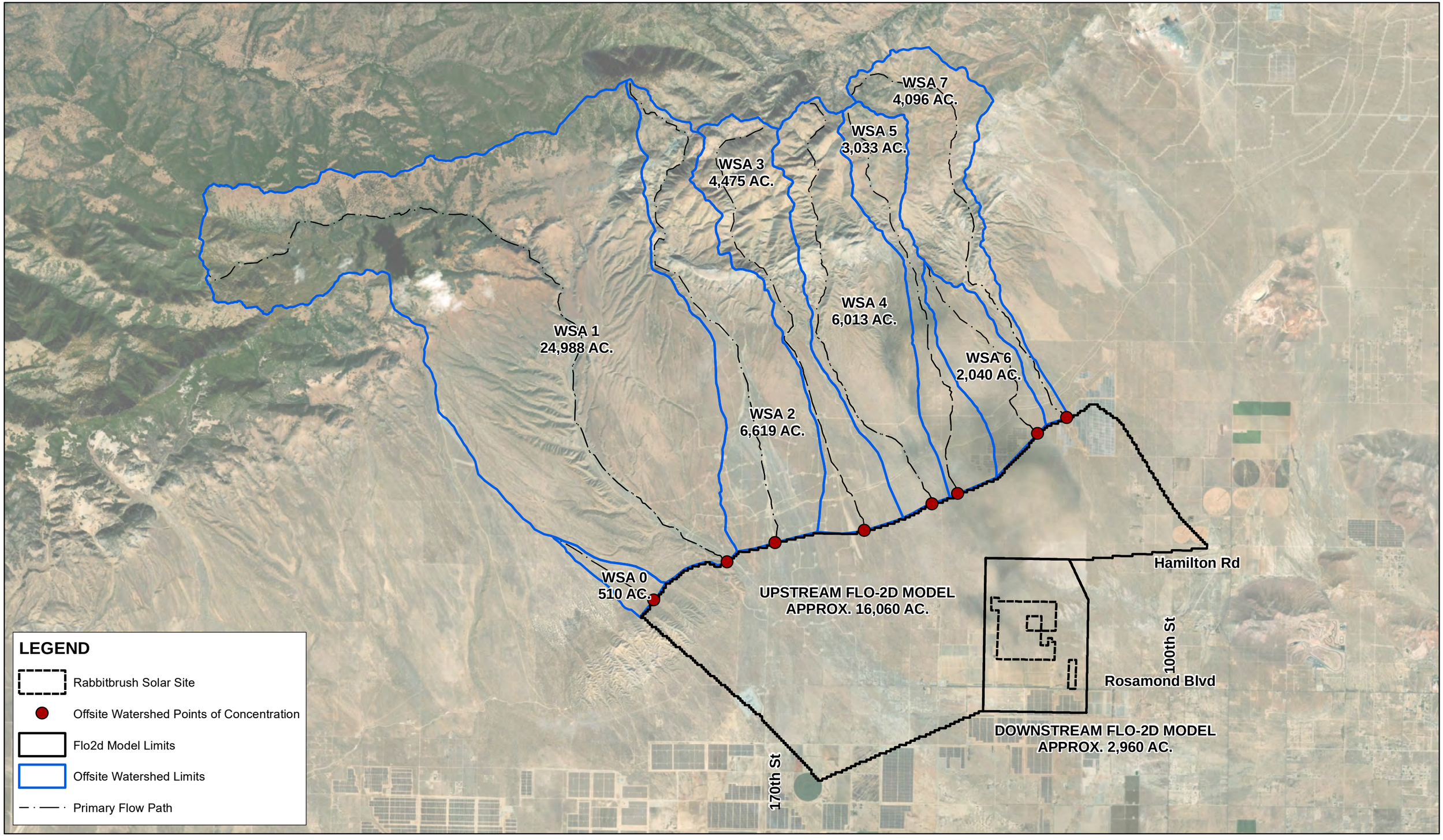
| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| KERN COUNTY | 060075 | 4000 | E |

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**MAP NUMBER**
**06029C4000E**

**EFFECTIVE DATE**
**SEPTEMBER 26, 2008**

Federal Emergency Management Agency




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www.wallacegroup.us

1 inch = 8,000 Feet

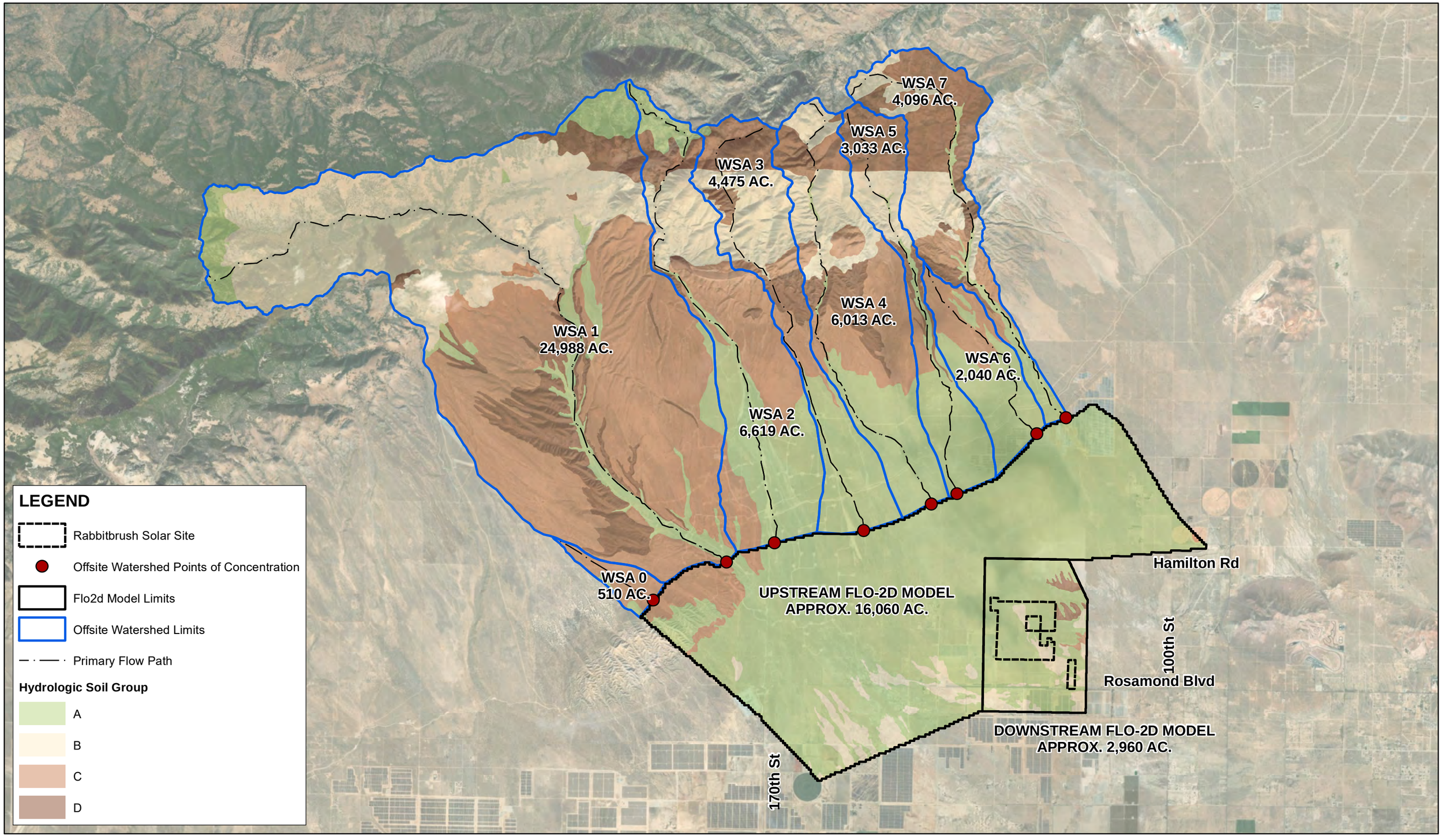
0 8,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *WATERSHED INFORMATION MAP*

JOB NO: 1019-0150
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP.
BASE MAP BY ESRI.





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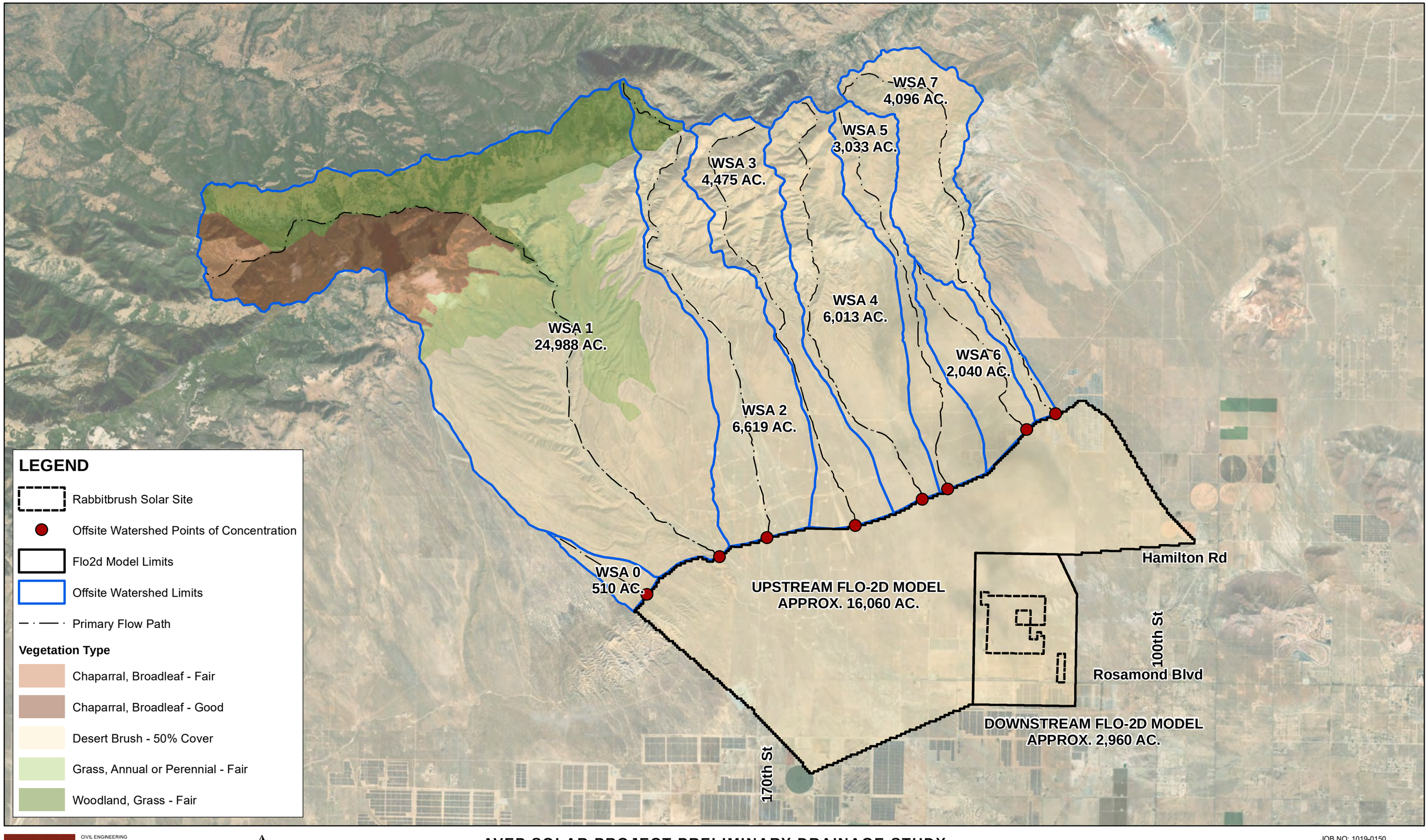
0 8,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *HYDROLOGIC SOIL GROUP MAP*

JOB NO: 1019-0150
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP.
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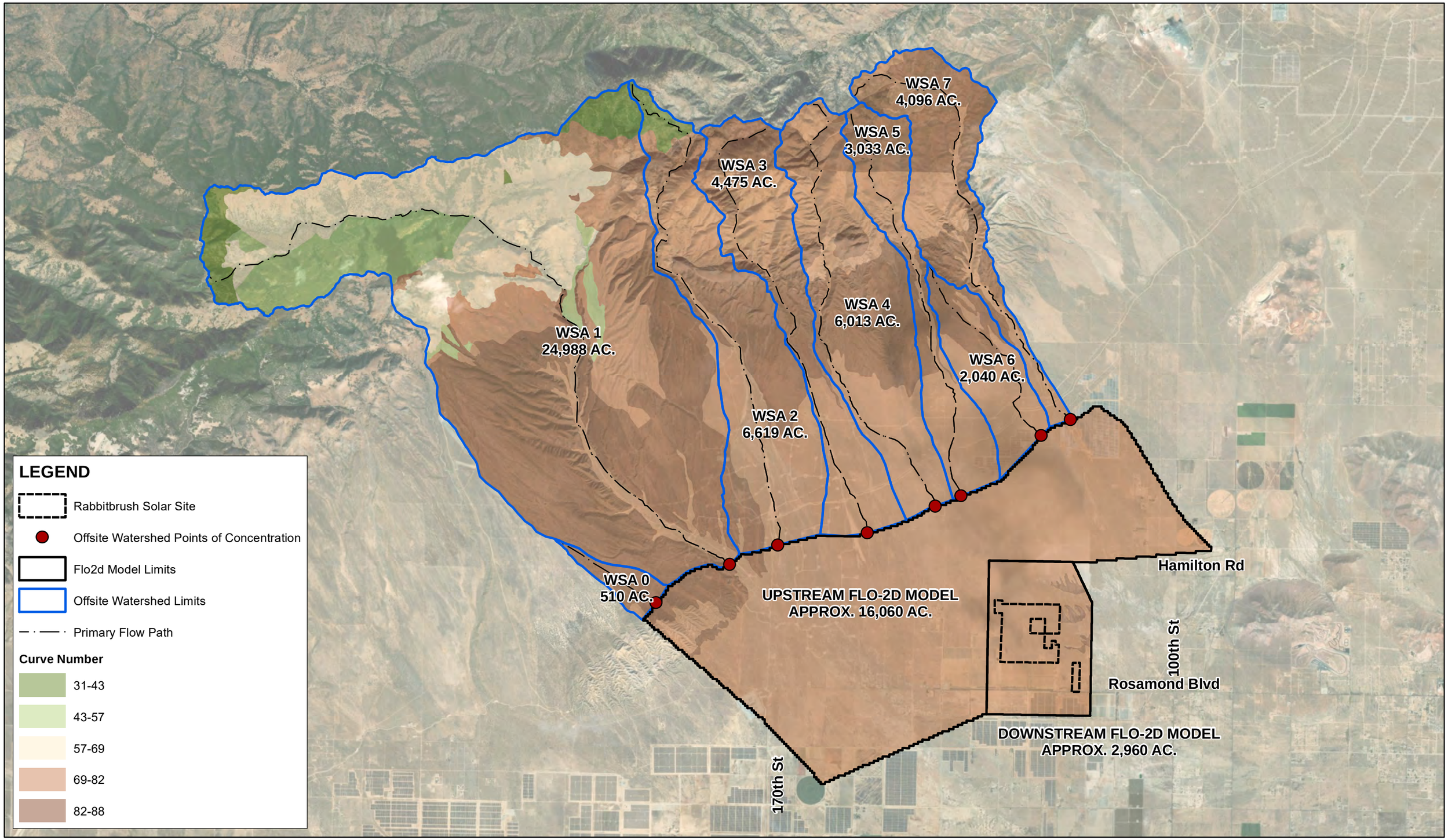
0 8,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *VEGETATION TYPE MAP*

JOB NO: 1019-0150
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

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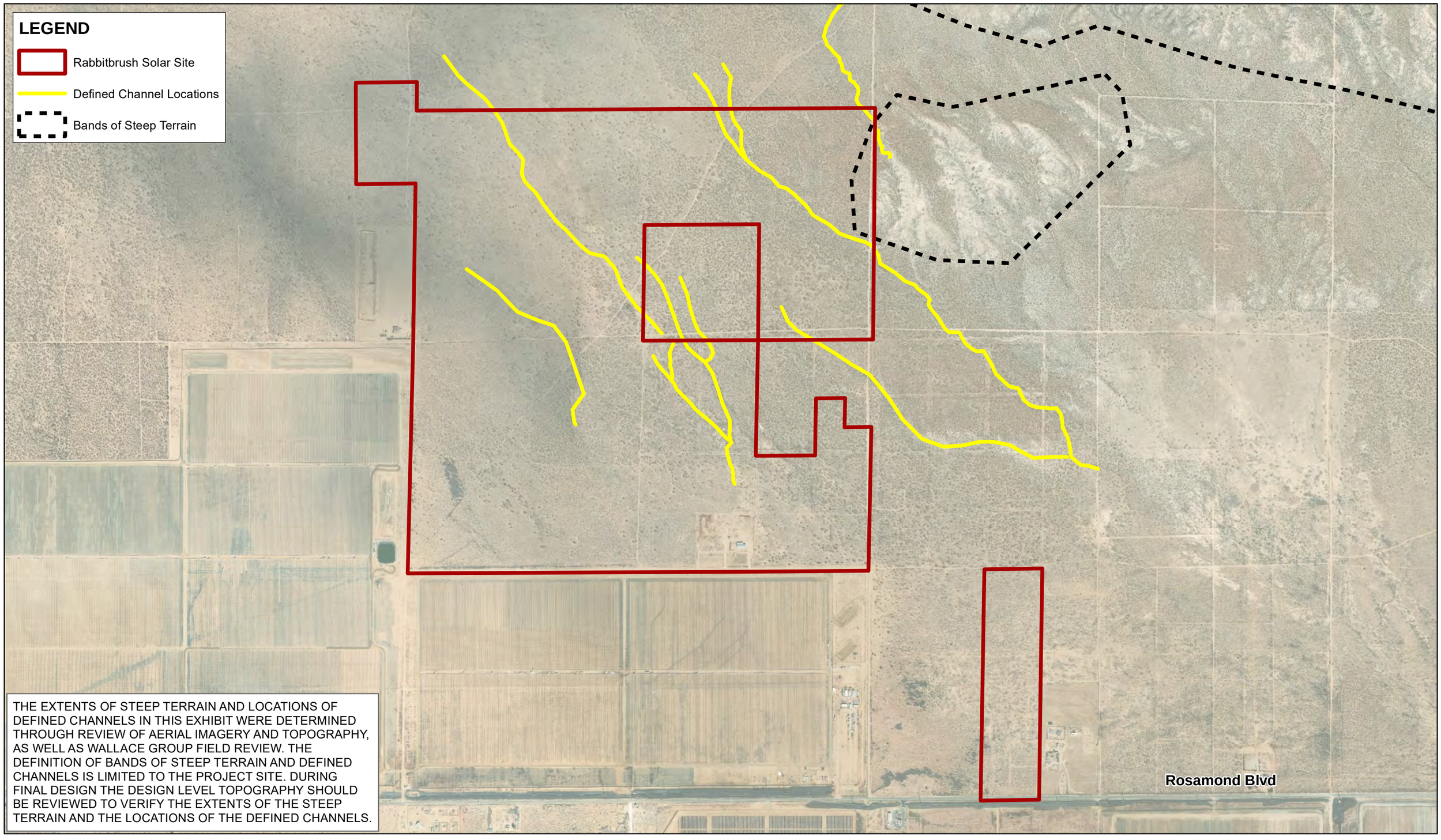
1 inch = 8,000 Feet
0 8,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *CURVE NUMBER MAP*

JOB NO: 1019-0150
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP.
BASE MAP BY ESRI.




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1 inch = 1,000 Feet

0 1,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *RABBITBRUSH SOLAR SITE*
## *STEEP TERRAIN EXHIBIT*

FLO-2D MODEL DATE: 2017-03-20

JOB NO: 1019-0150
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.

# NOTES TO USERS

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Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

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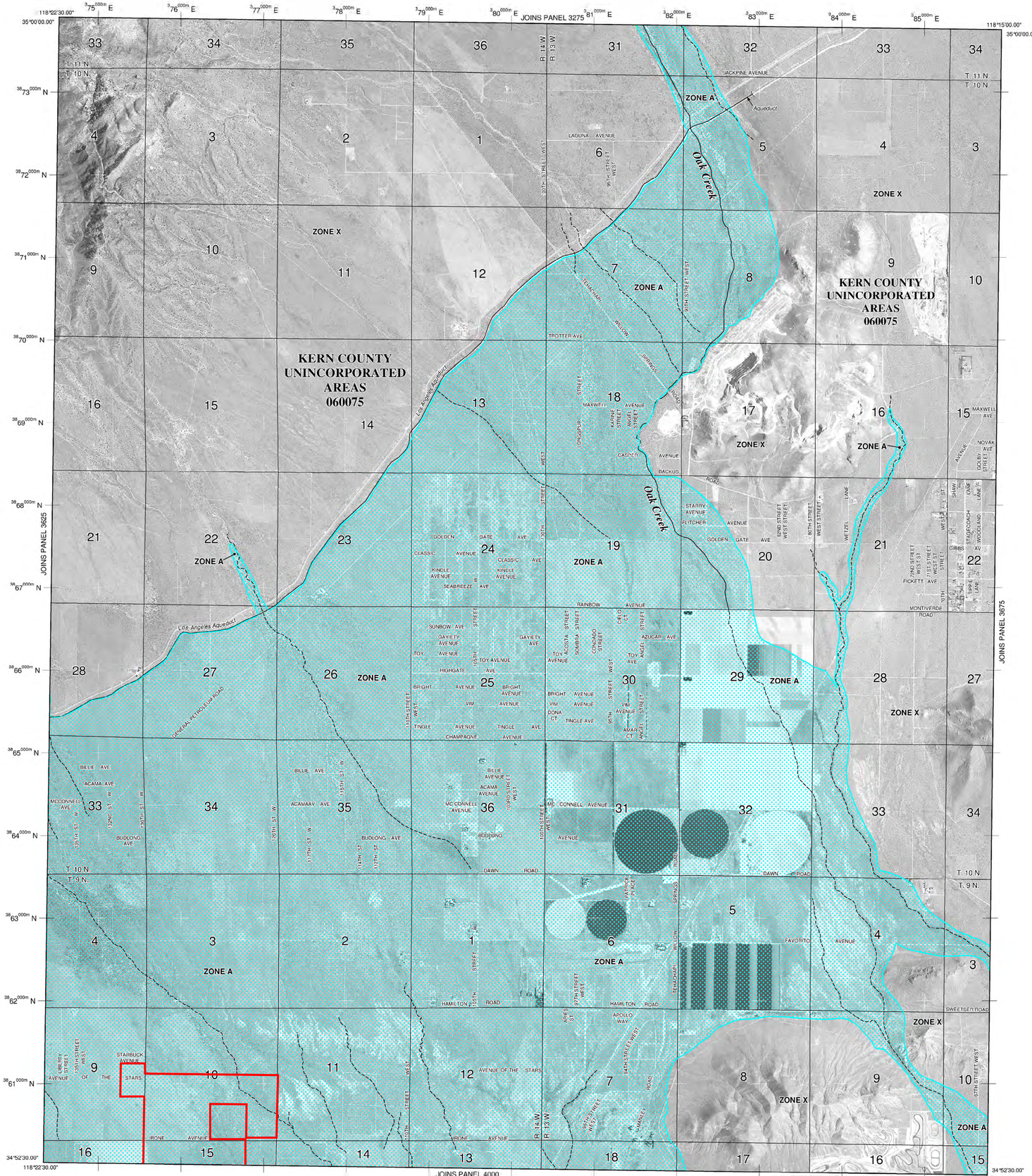
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AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY
RABBITBRUSH SOLAR LIFE




# LEGEND

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**ZONE A** No Base Flood Elevations determined.

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**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

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**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
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23 — 23 Transect line
97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
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M1.5 River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 3650E**

# FIRM
## FLOOD INSURANCE RATE MAP
## KERN COUNTY, CALIFORNIA
## AND INCORPORATED AREAS

**PANEL 3650 OF 4125**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| KERN COUNTY | 060075 | 3650 | E |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**
**06029C3650E**

**EFFECTIVE DATE**

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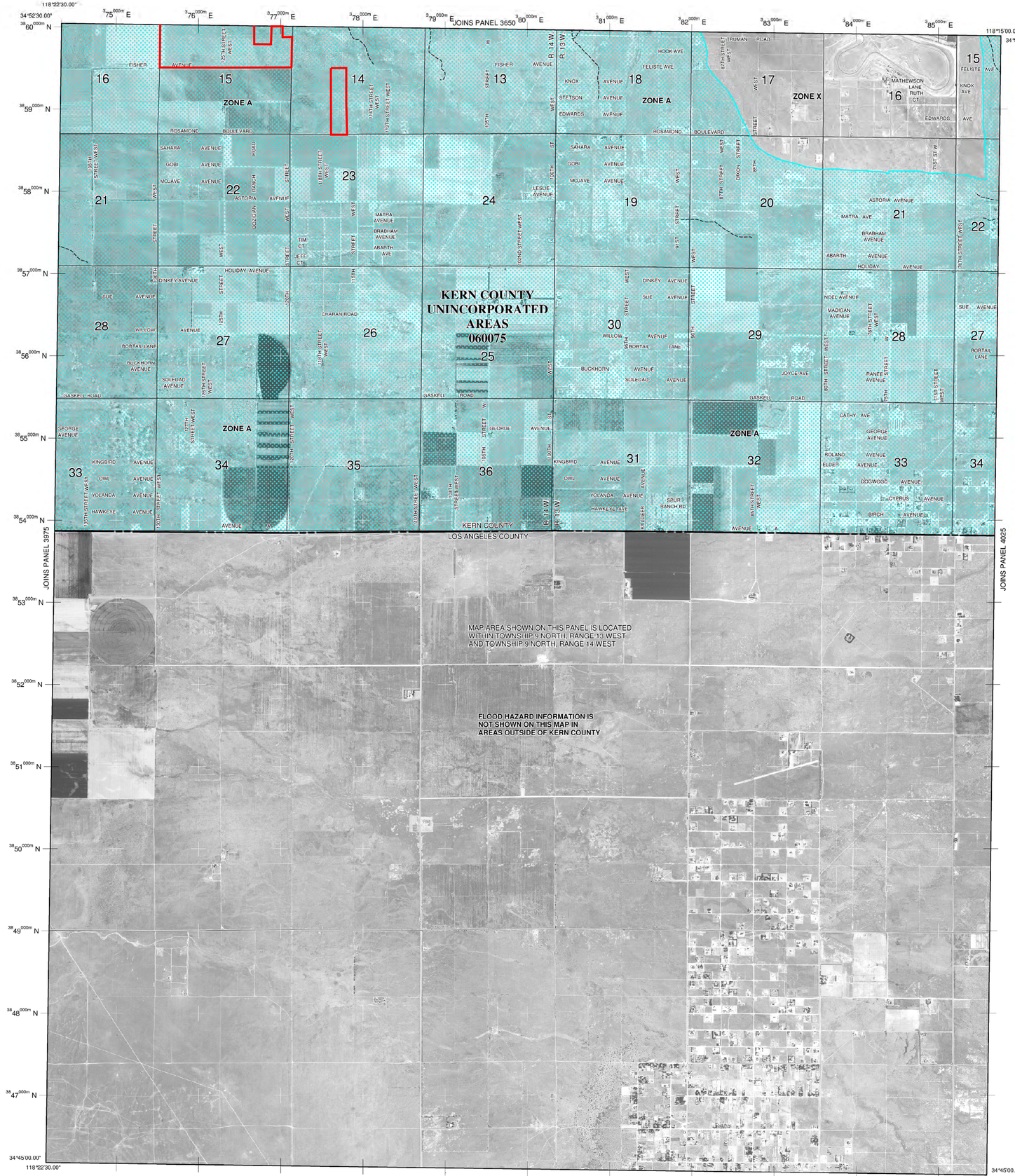
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AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY
RABBITBRUSH SOLAR SITE




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- **ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

- **ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

- **ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
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- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275000mN — 1000-meter Universal Transverse Mercator grid ticks, zone 11
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- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
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MAP REPOSITORIES
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September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

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**PANEL 4000E**

# FIRM
## FLOOD INSURANCE RATE MAP
## KERN COUNTY, CALIFORNIA
## AND INCORPORATED AREAS

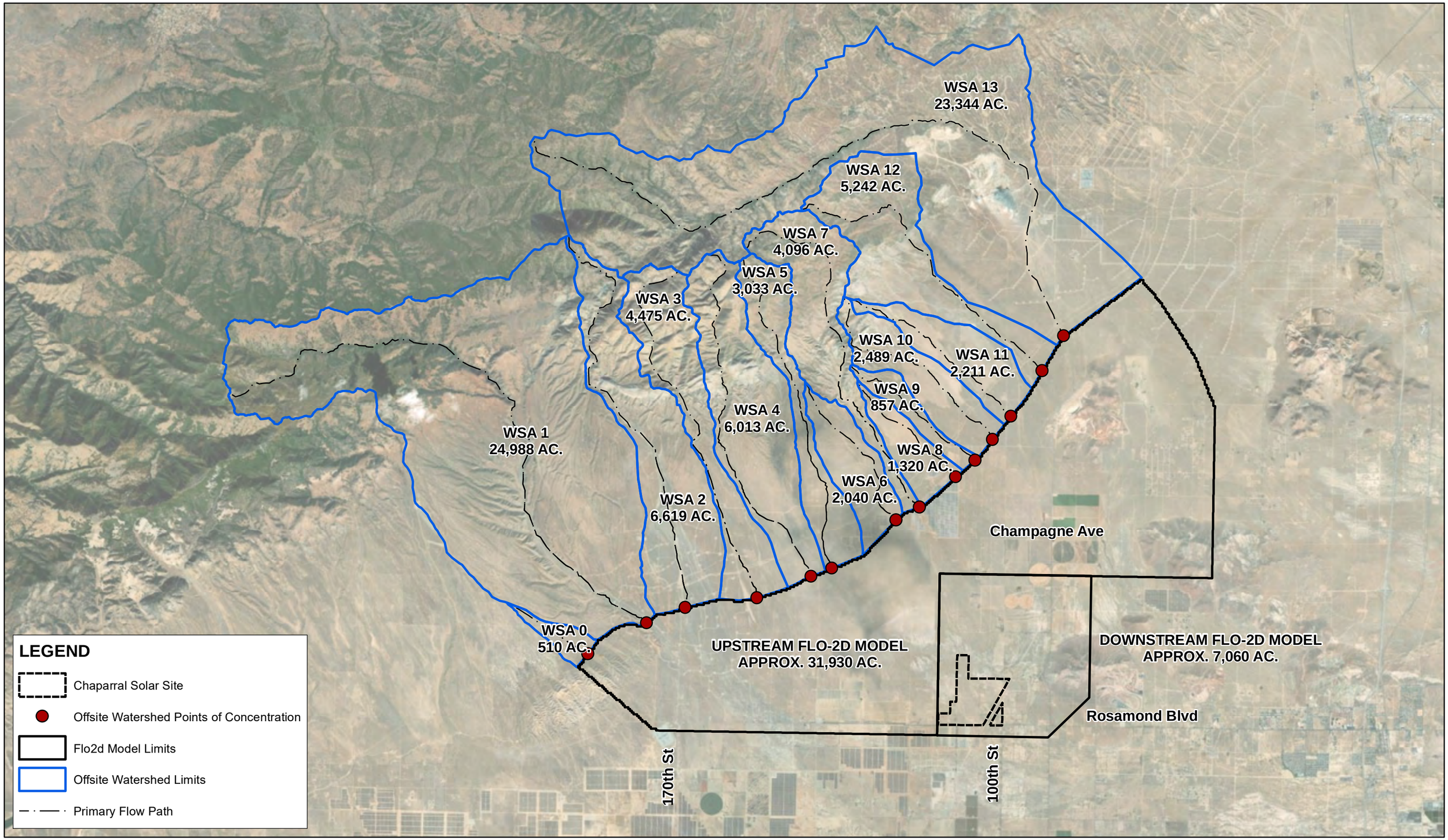
**PANEL 4000 OF 4125**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| KERN COUNTY | 060075 | 4000 | E |

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**MAP NUMBER**
**06029C4000E**

**EFFECTIVE DATE**




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SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us

1 inch = 10,000 Feet

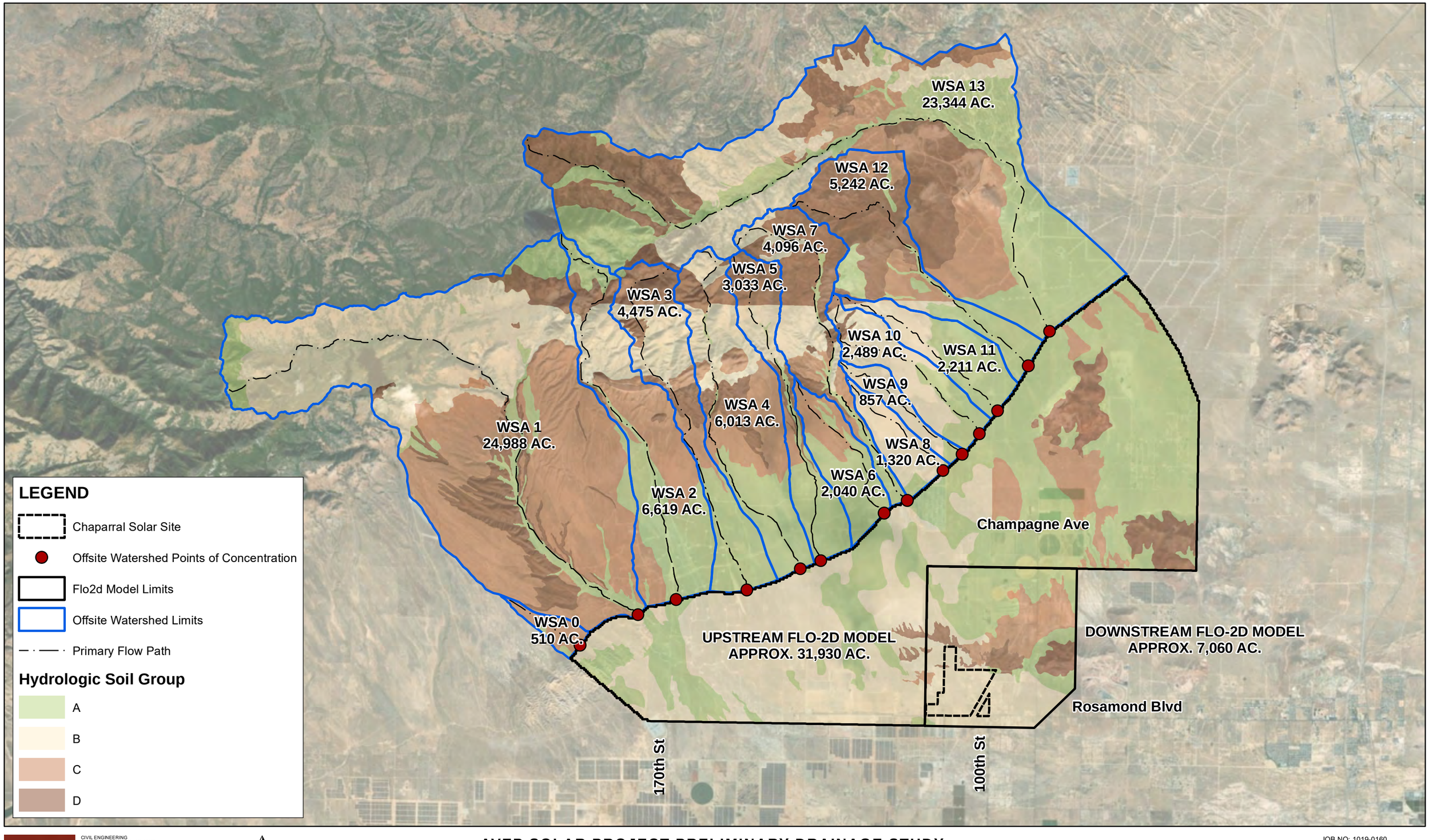
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# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *WATERSHED INFORMATION MAP*

JOB NO: 1019-0160
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 07, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP.
BASE MAP BY ESRI.




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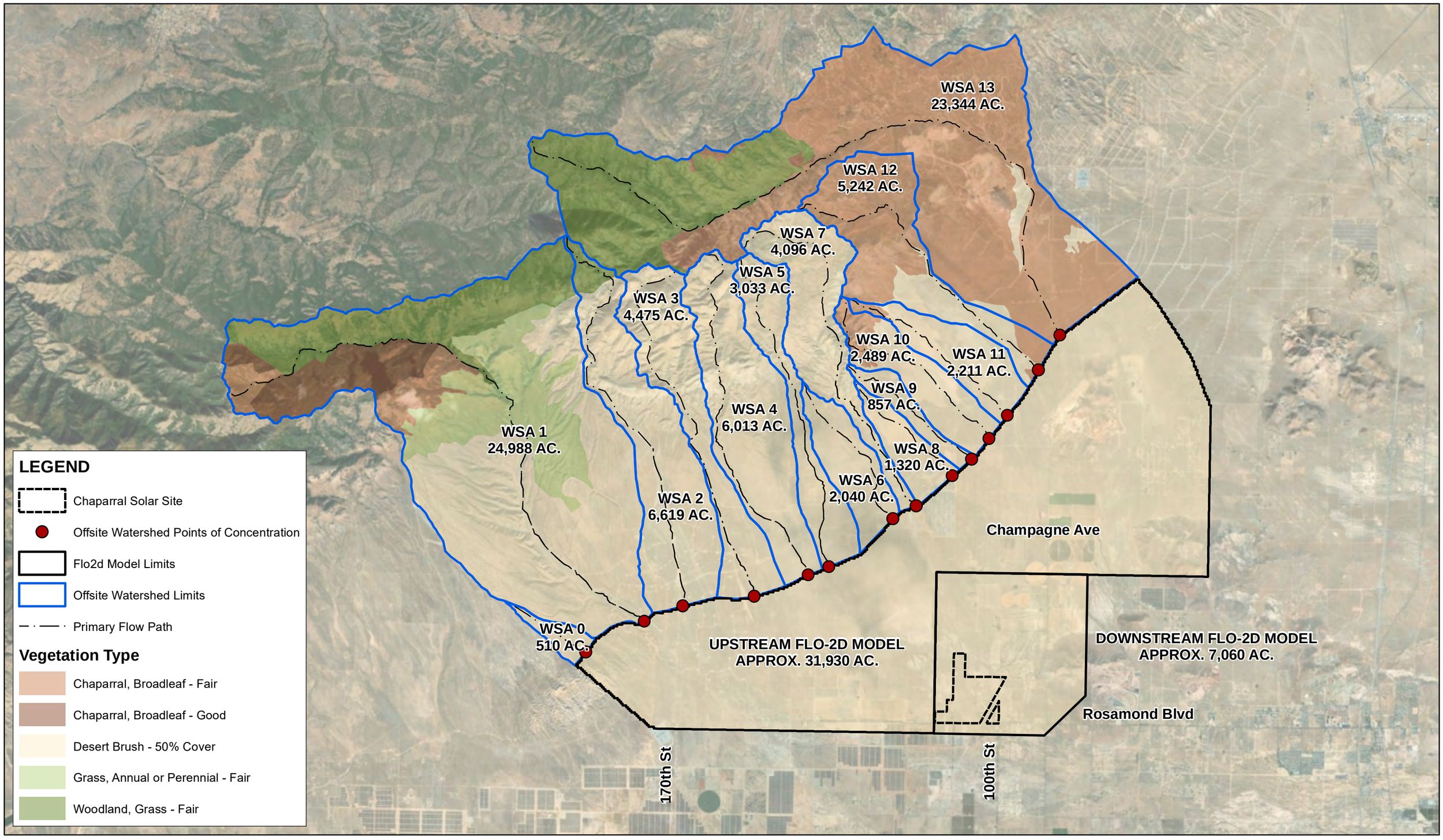
0 Feet 10,000

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *HYDROLOGIC SOIL GROUP MAP*

JOB NO: 1019-0160
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.




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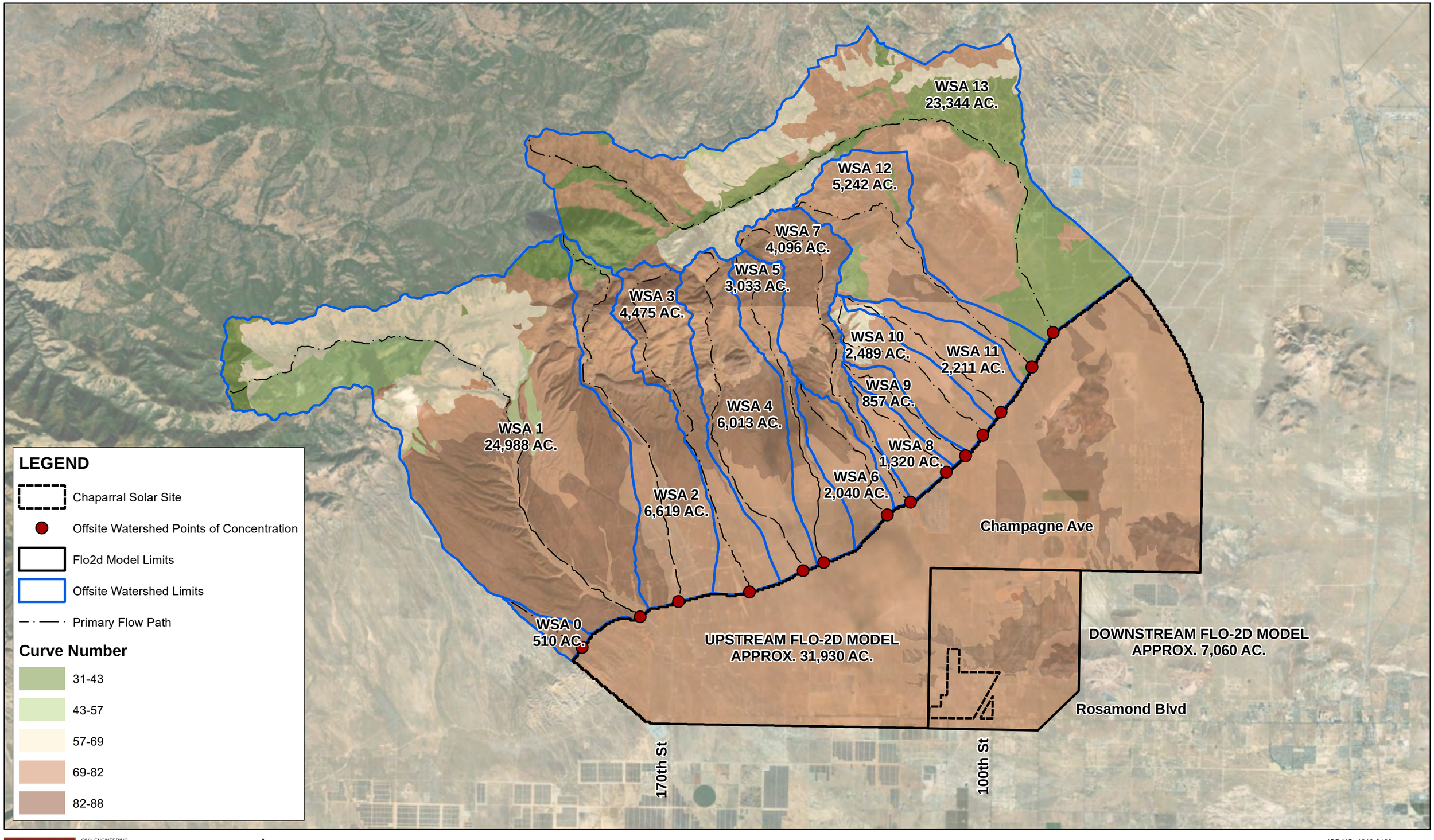
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# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *VEGETATION TYPE MAP*

JOB NO: 1019-0160
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

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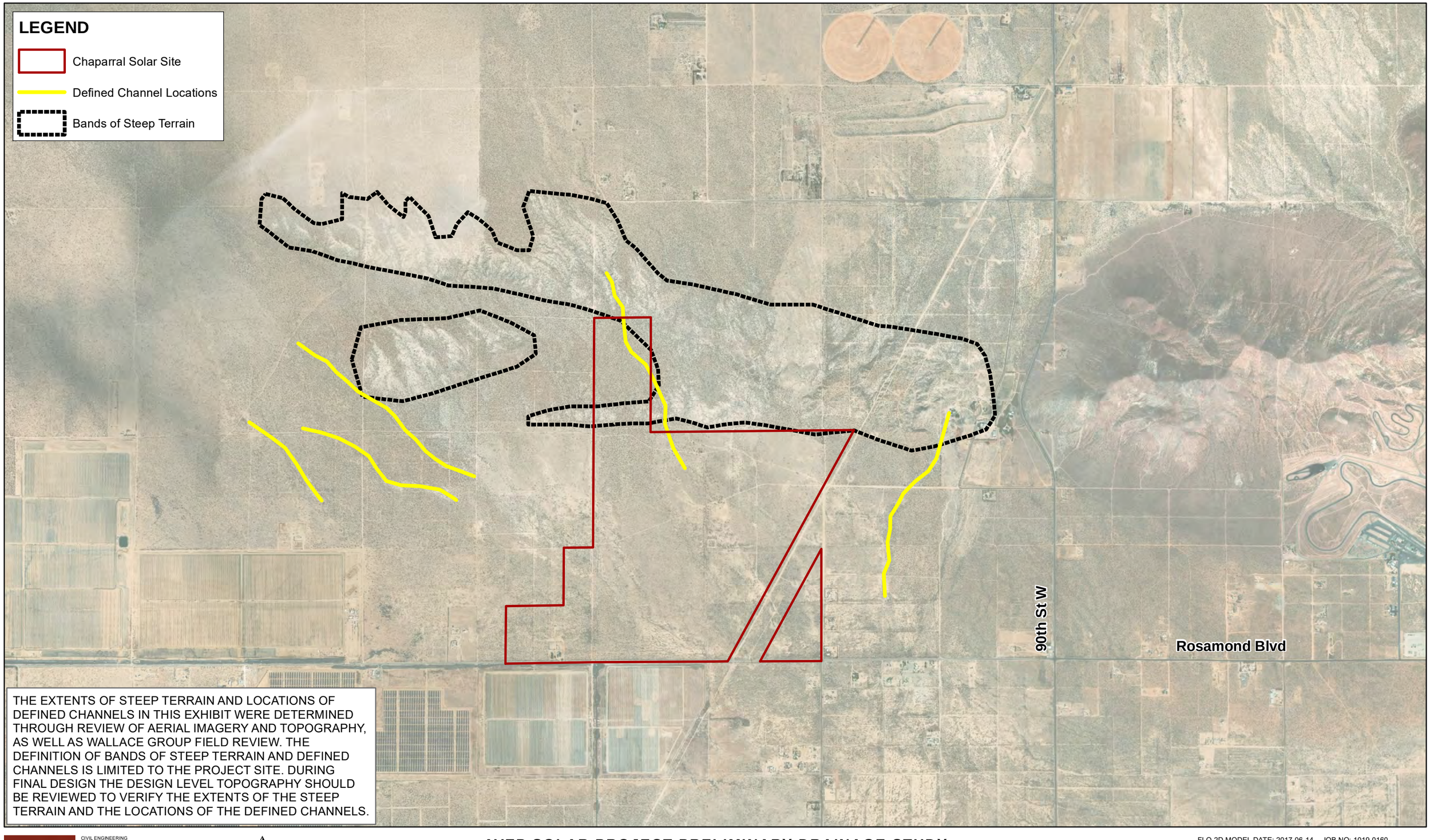
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# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *CURVE NUMBER MAP*

JOB NO: 1019-0160
MAP DOC: REPORT EXHIBITS
CREATED BY: ASK
DATE: OCTOBER 08, 2019

EXHIBIT NOTES:
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1 inch = 2,000 Feet
0 2,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY

## *CHAPARRAL SOLAR SITE*
## *STEEP TERRAIN EXHIBIT*

FLO-2D MODEL DATE: 2017-06-14

JOB NO: 1019-0160
MAP DOC: FLO2D RESULTS
CREATED BY: ASK
DATE: OCTOBER 7, 2019

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.

# NOTES TO USERS

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**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC–3, #9202
1315 East–West Highway
Silver Spring, MD 20910–3282

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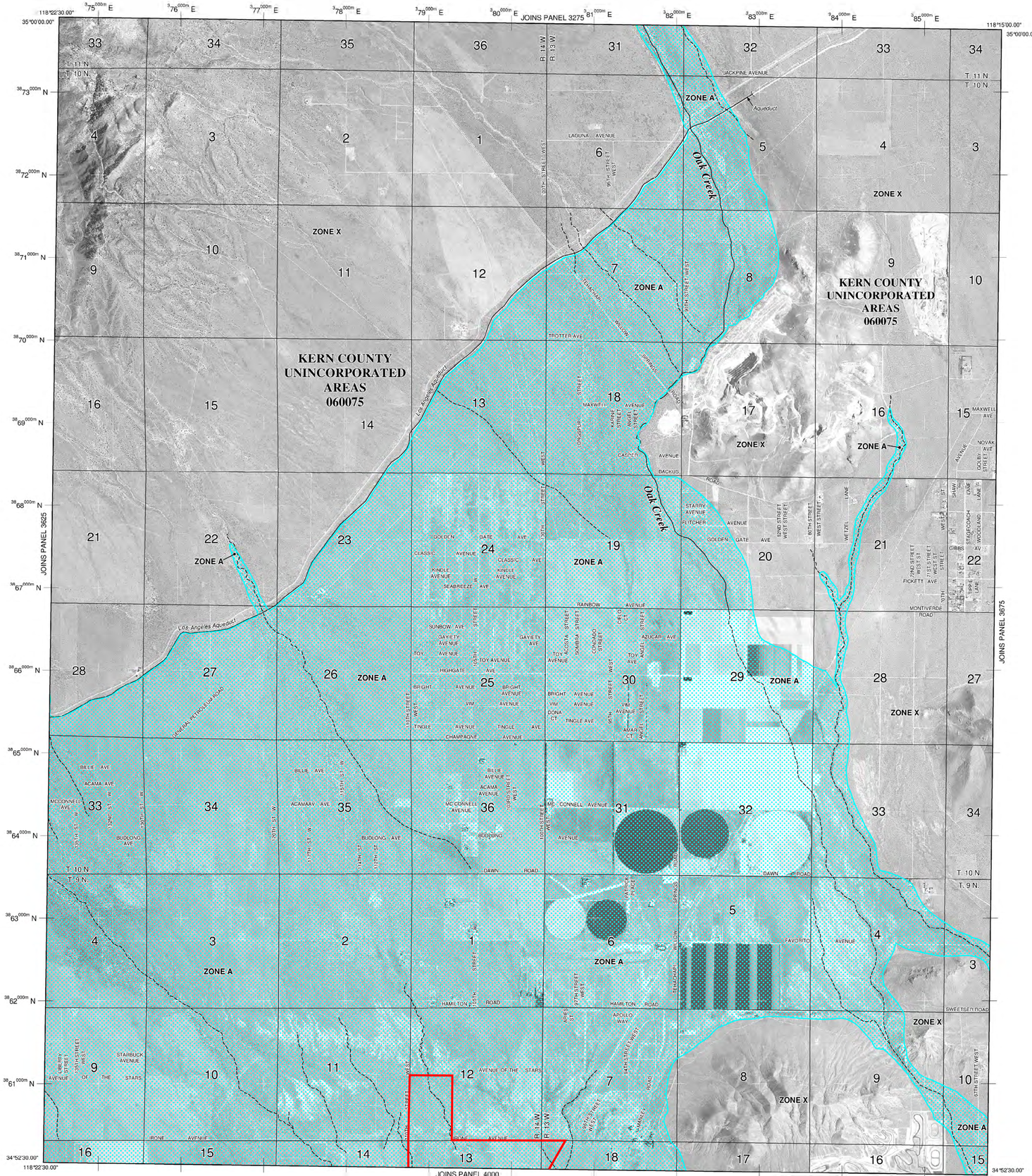
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AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY
CHAPARRAL SOLAR SITE




# LEGEND

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

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**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

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**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

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**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

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MAP REPOSITORIES
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EFFECTIVE DATE OF COUNTYWIDE
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September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

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NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 3650E**

# FIRM
## FLOOD INSURANCE RATE MAP
## KERN COUNTY, CALIFORNIA
## AND INCORPORATED AREAS

**PANEL 3650 OF 4125**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| KERN COUNTY | 060075 | 3650 | E |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**
**06029C3650E**

**EFFECTIVE DATE**

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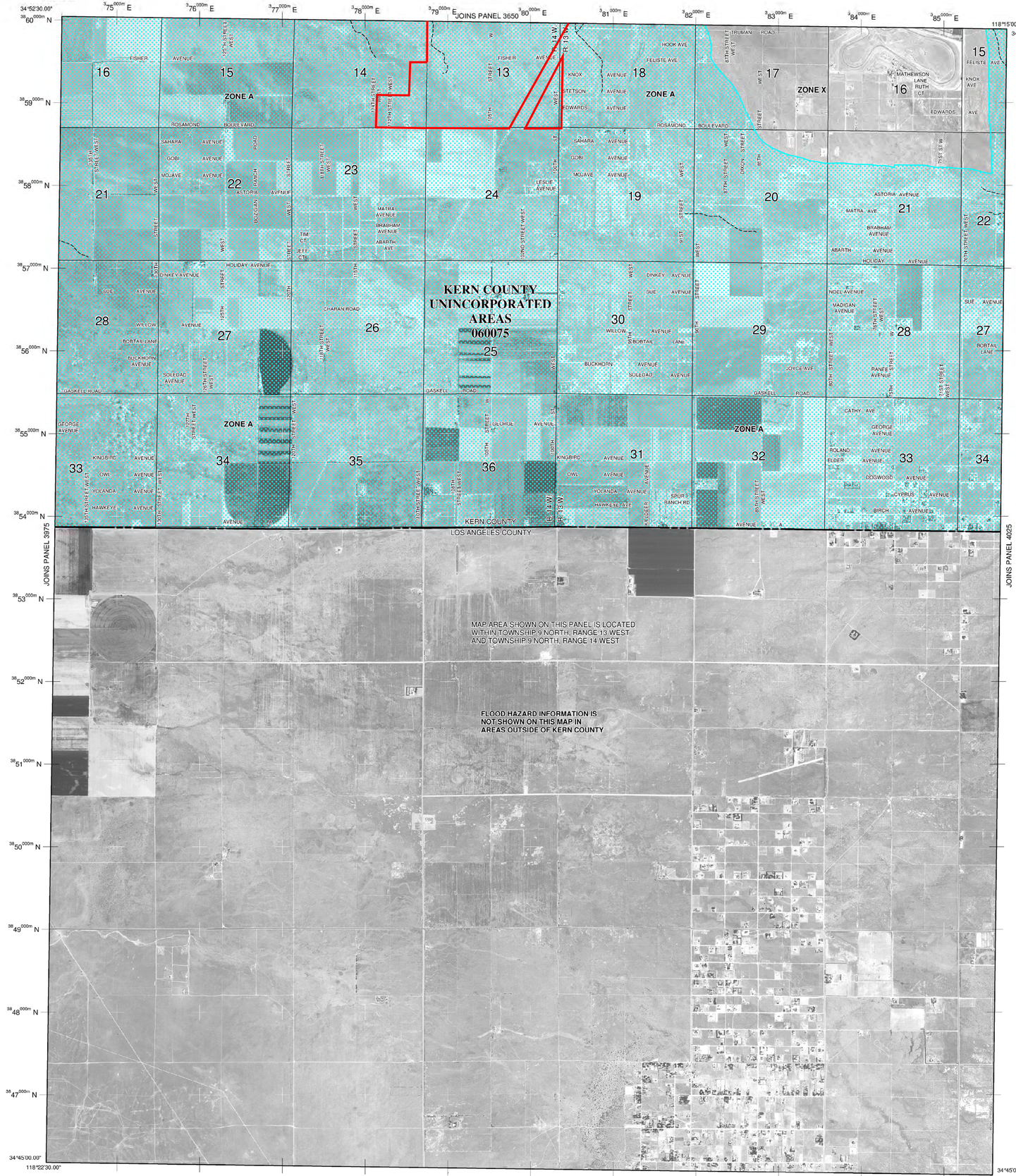
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AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY
CHAPARRAL SOLAR SITE




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600 0 600 1200 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 4000E**

# FIRM
## FLOOD INSURANCE RATE MAP
## KERN COUNTY, CALIFORNIA
## AND INCORPORATED AREAS

**PANEL 4000 OF 4125**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| KERN COUNTY | 060075 | 4000 | E |

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**
**06029C4000E**

**EFFECTIVE DATE**

# APPENDIX C

## FLO-2D HYDROLOGY & HYDRAULICS CALCULATIONS (UNDER SEPARATE COVER)

# APPENDIX D
## CIVILD HYDROLOGY CALCULATIONS (UNDER SEPARATE COVER)

# ADDENDUM 1

## November 12, 2020 Addendum to the AVEP Solar Project Preliminary Drainage Study

# MEMORANDUM

**First Solar**
**AVEP Solar Project – WG Project 1019-0160**




**Date**: November 12, 2020

**To:** Beth Hoffman, PE, First Solar

**From**: Valerie Huff, PE

**Subject**: Addendum 1 to the AVEP Solar Project Preliminary Drainage Study

## PURPOSE

The purpose of this memo is to provide an addendum to the October 11, 2019 AVEP Solar Project Preliminary Drainage Study prepared by Wallace Group.

## BACKGROUND

Since preparation of the Preliminary Drainage Study, the AVEP Solar Project (Project) has undergone modifications. These modifications consist of (1) the removal of the approximate 721-acre Tumbleweed Solar Facility from the Project; and (2) increasing the proposed site for the Chaparral Solar Facility from approximately 764 acres to approximately 774 acres to include an optional location (one of two potential locations on the Chaparral Solar Facility) for a proposed energy storage system (ESS), through the addition of an approximate-10 acre parcel to the proposed Chaparral Solar Facility site.

The added Chaparral Solar Facility 10-acre parcel is located at the northwest corner of Holiday Avenue and 110th Street West, directly across Holiday Avenue from the existing Willow Springs Solar Project Substation. The proposed capacity of the ESS on both the Rabbitbrush and Chaparral Solar Facilities has been increased, to store approximately 1,000 megawatt-hours (MWh) of energy per facility (for a combined project total of approximately 2,000 MWh), however, the proposed acreage of each ESS would remain at approximately five acres of land within each facility site.

Refer to the attached Project Map for the location of the added 10-acre parcel.

## MODIFIED PROJECT DESCRIPTION

The Project will construct, operate, and eventually decommission two solar photovoltaic (PV) power generating facilities that would be capable of delivering a total of up to approximately 250 megawatts of alternating current (MW-ac) electricity, along with associated facilities including the ESS units. The proposed Project consists of two non-contiguous solar generating facilities, the Rabbitbrush Solar Facility (125 MW-ac) and Chaparral Solar Facility (125 MW-ac) and ESS to store approximately 1,000 megawatt-hours (MWh) of energy per facility (for a combined total of approximately 2,000 (MWh).

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## HYDRAULIC ANALYSIS

The land area of the added 10-acre parcel is contained within the analysis limits for the Tumbleweed Solar Facility. Therefore, the analysis previously prepared for the Tumbleweed Solar Facility and as documented in the Preliminary Drainage Study was used for the 10-acre parcel addition.

## FLO2D MODEL RESULTS FOR THE 10-ACRE PARCEL ADDITION

The majority of the 10-acre parcel has 100-year flow depths less than 6 inches. There is an area of concentrated flow on the eastern side of the parcel, along 110th Street West. This flow condition is typical of the north-south streets in the project area as the streets are typically graded to be lower in elevation compared to the surrounding land. Velocity in the 100-year storm is generally less than 1 foot per second, with a maximum velocity in the range of 2.00 through 2.99 feet per second in the concentrated flow area.

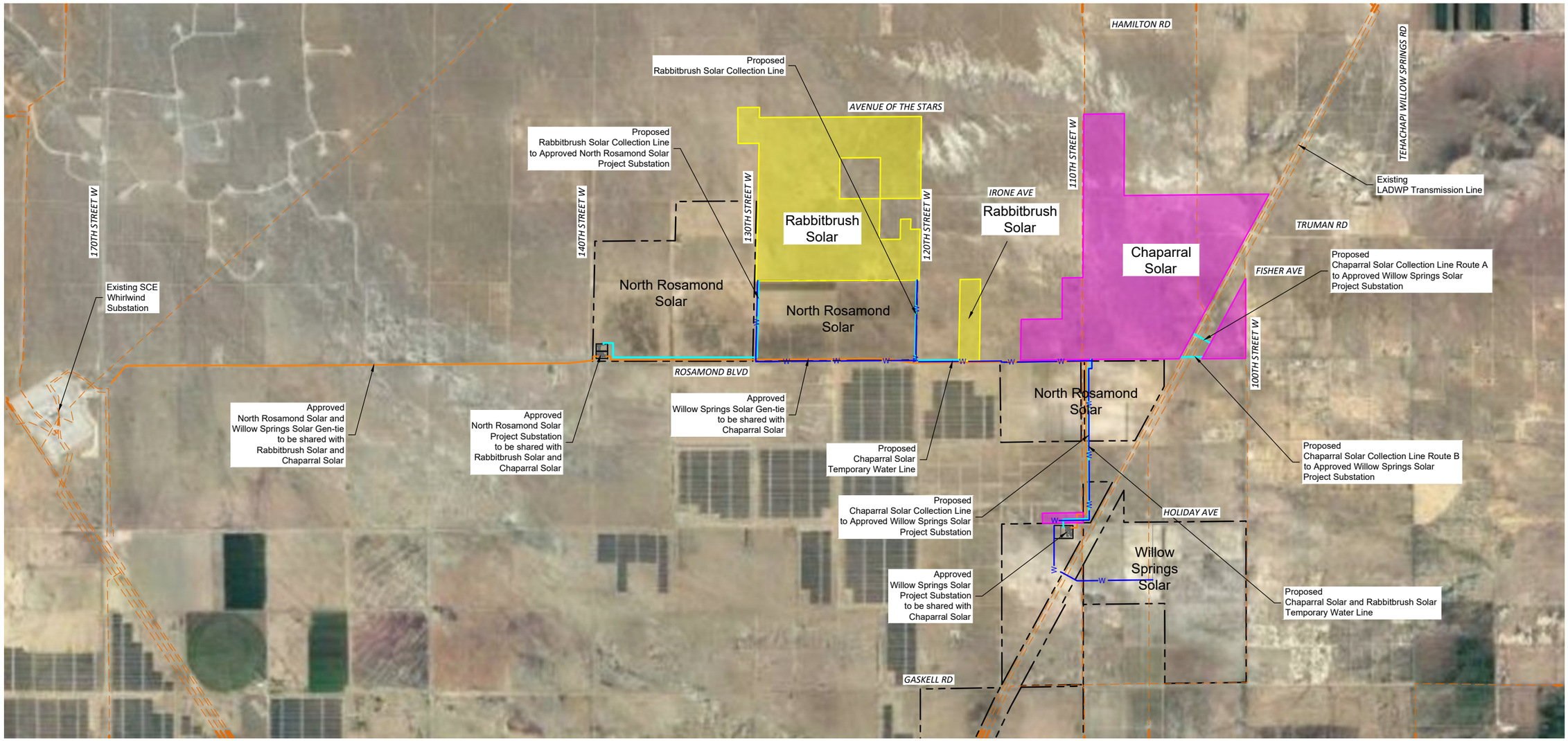
Refer to the attached exhibits showing 100-year flow depth and velocity for the 10-acre parcel.

## CONCLUSION

The removal of the Tumbleweed Solar Facility from the Project does not impact the hydraulic characteristics of the Project identified in the Preliminary Drainage Study. The increase of the Chaparral Solar Facility with the approximate 10 acre parcel that was previously included as part of the Tumbleweed Solar Facility drainage analysis also does not impact the hydraulic characteristics of the Project identified in the Preliminary Drainage Study.

LEGEND

- RABBITBRUSH SOLAR
- CHAPPARAL SOLAR
- APPROVED PROJECTS
- PROPOSED COLLECTION LINE
- PROPOSED CHAPARRAL SOLAR & RABBITBRUSH SOLAR TEMPORARY WATER LINE
- APPROVED GEN-TIE
- EXISTING TRANSMISSION LINE




NORTH

3400' 1700' 0 3400'

C:\Users\FS104849\AVEP\AVEP Figure 1a - 091020.dwg FS104849 Sep 13, 2020 - 6:29pm


First Solar

FIRST SOLAR, INC.
135 MAIN STREET, 6TH FLOOR
SAN FRANCISCO, CALIFORNIA 94105
PHONE: (415) 935-2500
WWW.FIRSTSOLAR.COM


# AVEP SOLAR PROJECT

KERN COUNTY
CALIFORNIA

| REV | DATE | REVISION DESCRIPTION | BY | CHK | APP |
|---|---|---|---|---|---|
| | | | | | |

FS JOB #:

PROJ. DEVT. ENGR: M. DOSHI

PROJ. MGR:

SCALE: 1"=3400' @ 11"x17" SHEET

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SHEET TITLE

Figure 1a -
Project Map
SCE Interconnection
Option 1

SHEET 1 OF 1

THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OK FOR CONSTRUCTION ABOVE LAST REVISION.


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## LEGEND

Chaparral Solar Site - Southern Parcel Addition

Tumbleweed Flo2d Study Boundary

**Max Depth (feet)**

| | |
|---|---|
| 0.00 - 0.24 | ft |
| 0.25 - 0.49 | ft |
| 0.50 - 0.74 | ft |
| 0.75 - 0.99 | ft |
| 1.00 - 1.49 | ft |
| 1.50 - 1.99 | ft |
| 2.00 - 2.99 | ft |
| 3.00 - 3.99 | ft |
| 4.00 - 4.99 | ft |
| 5.00 - 5.99 | ft |
| 6.00 - 10. | |

Rosamond Blvd

Holiday Ave

110th St W



CHAPARRAL SOUTHERN PARCEL DETAIL
SCALE: 1"=400'


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1 inch = 2,000 Feet

0 2,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY ADDENDUM 1

## *CHAPARRAL SOLAR SITE SOUTHERN PARCEL ADDITION*
## *ONSITE FLO-2D MAXIMUM DEPTH*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

FLO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
MAP DOC: FLO2D RESULTS
CREATED BY: VGH
DATE: NOV 03, 2020

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.

## LEGEND

Chaparral Solar Site - Southern Parcel Addition

Tumbleweed Flo2d Study Boundary

**Max Velocity (fps)**

- 0.00 - 0.49 fps
- 0.50 - 0.99 fps
- 1.00 - 1.49 fps
- 1.50 - 1.99 fps
- 2.00 - 2.99 fps
- 3.00 - 3.99 fps
- 4.00 - 4.99 fps
- 5.00 - 5.99 fps
- 6.00 - 10.00

Rosamond Blvd

Holiday Ave

110th St W



CHAPARRAL SOUTHERN PARCEL DETAIL
SCALE: 1"=400'


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0 2,000 Feet

# AVEP SOLAR PROJECT PRELIMINARY DRAINAGE STUDY ADDENDUM 1

## *CHAPARRAL SOLAR SITE SOUTHERN PARCEL ADDITION*
## *ONSITE FLO-2D MAXIMUM VELOCITY*
## *EXISTING CONDITIONS, 100-YEAR FLOWS*

LO-2D MODEL DATE: 2017-03-14

JOB NO: 1019-0140
MAP DOC: FLO2D RESULTS
CREATED BY: VGH
DATE: NOV 03, 2020

EXHIBIT NOTES:
WALLACE GROUP DID NOT PERFORM SURVEY SERVICES FOR THIS MAP. BASE MAP BY ESRI.

# Appendix L
## Water Supply Assessment

ESA

AECOM Imagine it. Delivered.

# WATER SUPPLY ASSESSMENT

## First Solar AVEP Project

Tumbleweed Solar
Rabbitbrush Solar
Chaparral Solar

AECOM Project Number: 60608379
First Solar Purchase Order Number: 4800050629

July 2019
Revised June 11, 2020 (Addendum A)

## Quality information

| Prepared by | Checked by | Verified by | Approved by |
|---|---|---|---|
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**Prepared for:**

Tumbleweed Solar, LLC
Rabbitbrush Solar, LLC
Chaparral Solar, LLC

**Prepared by:**

Miriam Akselrod
Senior Geologist

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Appendix A Antelope Valley Groundwater Basin Court Adjudication

# Acronyms and Abbreviations

| | |
|---|---|
| °F | degrees Fahrenheit |
| AF | acre feet |
| AFY | acre feet per year |
| AB | Assembly Bill |
| AVEK | Antelope Valley-East Kern Water Agency |
| Basin | Antelope Valley Groundwater Basin |
| bgs | below ground surface |
| CAISO | California Independent System Operator |
| CEQA | California Environmental Quality Act |
| CWP | California Water Plan |
| DWR | Department of Water Resources |
| ESS | Energy Storage System |
| ET | evapotranspiration |
| gen-tie | generation power tie |
| IRWMP | Integrated Regional Water Management Plan |
| kV | kilovolts |
| LADWP | Los Angeles Department of Water and Power |
| MCL | Maximum Contaminate Levels |
| mg/L | milligrams per liter |
| MW | megawatt |
| O&M | operations and maintenance |
| Project | AVEP Solar Project |
| PV | photovoltaic |
| RCSD | Rosamond Community Services District |
| SB | Senate Bill |
| SCE | Southern California Edison |
| SVOC | Semivolatile Organic Compounds |
| SWP | State Water Project |
| Sy | specific yield |
| TDS | Total Dissolved Solids |
| USGS | United States Geological Survey |
| UWMP | Urban Water Management Plan |
| VOC | Volatile Organic Compounds |
| WSA | Water Supply Assessment |

# 1. Introduction

Senate Bill (SB) 610 amended the California Water Code, see § 10910, *et seq*., to promote collaborative planning to "improve the link between information on water supply availability and certain land use decisions made by cities and counties" (California Department of Water Resources [DWR] 2003). SB 610 requires the preparation of a Water Supply Assessment (WSA) for any project that is subject to the California Environmental Quality Act (CEQA), provided it qualifies as a "project" and is not otherwise exempt under the relevant provisions of the Water Code. A WSA must examine the availability of an identified water supply under normal year, single-dry year, and multiple-dry year conditions over a 20-year projection, accounting for the projected water demand of the project in addition to other existing and planned future uses of the identified water supply.

## 1.1 AVEP Project Location and Description

The AVEP Project would involve the construction, operation and eventual decommissioning of three solar photovoltaic (PV) power generating facilities proposed by Tumbleweed Solar, LLC, Rabbitbrush Solar, LLC, and Chaparral Solar, LLC (the Applicants). These facilities, known as Tumbleweed Solar Facility, Rabbitbrush Solar Facility, and Chaparral Solar Facility, would collectively be capable of producing up to approximately 375 megawatts (MW) of renewable energy. The AVEP Project would be located on approximately 2,117 acres of private land in southeastern Kern County, California.

Major components of each Facility would include PV modules mounted on fixed-tilt or horizontal tracker systems, an onsite electrical collection system, an Energy Storage System (ESS), one or two microwave or other telecommunications towers, two meteorological stations, meteorological towers (if tracker technology is utilized), private access roads and an onsite and offsite collection system. Each Facility would have a single operations and maintenance (O&M) building of up to approximately 500 square feet, 1,500 square foot graveled area for employee parking, an aboveground water storage tank, permanent water lines, a septic system, and other associated facilities. Permanent chain-link security fencing would be installed around the individual Facility site perimeters, substations, ESSs, and other areas requiring controlled access.

The 125 MW Tumbleweed Solar Facility comprises approximately 721 acres of active agriculture and undeveloped open desert in two non-contiguous portions (eastern and western). The Facility is generally bordered by West Avenue A to the south, 100th Street West to the east, Willow Avenue to the north, and 117th Street West to the west. The Tumbleweed Solar Facility would have one microwave or other telecommunications tower and the Tumbleweed Solar ESS will be approximately 5 acres.

The 125 MW Rabbitbrush Solar Facility comprises approximately 632 acres of undeveloped open desert and scattered low density rural land in two non-contiguous portions (eastern and western). The Facility is generally bordered by Rosamond Boulevard to the south, 115th Street West to the east, Avenue of the Stars to the north, and 130th Street West to the west. The Rabbitbrush Solar Facility would have one microwave or other telecommunications towers and the Rabbitbrush Solar ESS will be approximately 5 acres.

The 125 MW Chaparral Solar Facility comprises approximately 764 acres of undeveloped open desert. The Facility is generally bordered by Rosamond Boulevard to the south, 100th Street West to the east, Avenue of the Stars to the north, and 110th Street West to the west. The Chaparral Solar Facility would have two microwave or other telecommunications towers and the Chaparral Solar ESS will be approximately 5 acres. Each Facility would construct an offsite collection system to interconnect into one of the two interconnection options. Interconnection Option 1 to the California Independent System Operator (CAISO) grid at the Southern California Edison (SCE) Whirlwind Substation; or Interconnection Option 2 to the Los Angeles Department of Water and Power (LADWP) Barren Ridge – Rinaldi transmission line via the proposed Rosamond Switching Station being developed by LADWP.

For Interconnection Option 1, the AVEP Project would require modifications to the existing Rosamond and Willow Springs Solar Projects substations and SCE improvements made at the existing SCE Whirlwind substation.

For Interconnection Option 2, the AVEP Project would require the construction of anew substation on the Chaparral Solar Facility, where the electrical output would be transformed to a voltage of 230-kilovolts (kV), with a 500 to 2,500 foot 230-kV gen-tie line to interconnect with LADWP, and a new substation on the Tumbleweed Solar Facility, where the electrical output would be transformed to a voltage of 230-kV, with an approximate 3.5 mile 230-kV gen-tie line to interconnect with LADWP. This option would also require LADWP improvements made at the proposed LADWP Rosamond Switching Station.

The AVEP Project is projected to collectively use 900 acre-feet (300 acre-feet per Facility) during an anticipated 12-month construction schedule. The principal uses will be for dust control during site preparation, trenching, infrastructure installation, temporary construction trailers and fire safety requirements.

Additionally, the AVEP Project will use thirty acre-feet/year (10 acre-feet/year/Facility) for O&M during the anticipated 30-year operational life of the AVEP Project. The principal uses will be for O&M buildings (toilets and hand washing facilities), and potentially used for photovoltaic (PV) solar panel washing. Water storage tanks may be installed at the O&M areas to provide water for fire protection and operations. Additional potable water may be delivered for O&M staff consumption.

Construction and Operations water for the three solar Facilities will be supplied from the following options:

1. New and/or existing wells on each individual Facility site and/or wells shared by one or more of the three Facilities,

2. Existing wells on the Willow Springs Solar Project site. If water is supplied from the adjacent Willow Springs Project site it will be piped via a temporary construction pipeline or trucked.

3. Trucked Antelope Valley-East Kern Water Agency (AVEK) water collected at one of the nearby locations owned by one of their suppliers.

# 2. Regulatory Setting

SB 610 amended the California Water Code by requiring a WSA to be prepared for projects subject to CEQA unless otherwise exempt under the relevant provisions of the Water Code. The Project is subject to CEQA and may currently be considered a "Project" as defined by the Water Code because it is a proposed industrial facility occupying more than 40 acres of land.[1] A WSA must examine the availability of an identified water supply under normal year, single-dry year, and multiple-dry year conditions over a 20-year projection, accounting for the projected water demand of the project in addition to other existing and planned future uses of the identified water supply. Anticipated annual water demands for the Project are summarized in **Table 4.1-1** (Chapter 4).

## 2.1 Senate Bill 610 Applicability

The DWR published a Guidebook for Implementation of SB 601 of 2001 to assist water suppliers, cities and counties in integrating water and land use planning (DWR 2003). While the DWR has no regulatory authority concerning WSAs, this WSA is organized following the suggestions provided in the Guidebook to ensure the information required under SB 610 is provided in this document to inform a future WSA.

**Chapter 3** provides background on water resources in the Antelope Valley Region. **Chapter 4** documents water supplies relevant to the Project, identifies AVEP Project water demands, and assesses whether the projected water supply is sufficient or insufficient for the Project.

### 2.1.1 Existing Public Water Systems

A public water system is defined in Water Code § 10912 as "a system for the provision of piped water to the public for human consumption that has 3,000 or more service connections." There is no public water system ("water supplier") for the Project. The Rosamond Community Service District (RCSD) is the nearest public water system to the AVEP Project. The RCSD boundary is approximately 2.8 miles from the AVEP Project at its closest point; therefore, RCSD cannot provide water to the Project.
AVEP Project water demand has not been assessed under existing WSAs.

### 2.1.2 Existing Water Management Plans

Public water systems are required by the California Water Code to prepare Urban Water Management Plans (UWMP) to carry out "long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water" (Water Code § 10610.2). UWMPs are prepared using input from multiple water systems operating in the region and include assessment of the reliability of water supply over a 20-year period and account for known and projected water demands during that time, including during normal, single-dry, and multiple-dry water years. WSAs commonly incorporate assessment of project-related water demands from UWMPs and other assessments and plans.

The AVEP Project area is located within the service area of the Antelope Valley-East Kern Water Agency (AVEK), which is a wholesale water supplier to utilities and local government agencies. Therefore, the AVEP Project area is addressed in the UWMP of the wholesaler. Information from the UWMP describing water supply in the Antelope Valley Region is incorporated into this WSA. This UWMP is informed by the 2013 Antelope Valley Integrated Regional Water Management Plan (IRWMP) (AVRWMG 2013).

[1] Prior to January 1, 2018, the Water Code included an exception from it definition of "Project" and, hence, its WSA requirement, for proposed PV energy generation facilities approved on or after October 8, 2011, if the facility would demand no more than 75 AF of water annually. See Cal. Water Code, Section 10912(a)(5)(B) (2017 version). While legislative proposals to extend the PV exception have been pending in the California Legislature, as of the date of this WSA, such legislation has not been enacted. In the event this exception is extended as previously written, the Project would be exempt from the WSA requirement based on the amortized annual water use of the Project, which would be below 75 AFY.

## 2.2 Groundwater Supply Evaluation

Water Code § 10910(f) requires that a WSA, for a project that proposes the use of groundwater, include an analysis of groundwater supply to satisfy the requirements listed below. The Water Code requirements are addressed in the sections that follow, as indicated in parentheses after each requirement:

1. A review of any information contained in the UWMP relevant to the identified water supply for the proposed project (**Section 3.1**).

2. A description of any groundwater basin or basins from which the proposed project will be supplied (**Section 3.2**);

3. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county has the legal right to pump under the order or decree (**Section 3.2** and **Appendix A**);

4. A detailed description and analysis of the amount and location of groundwater pumped for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records (**Section 4.3**);

5. A detailed description and analysis of the amount and location of groundwater that is pumped from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records (**Section 4.3**); and

6. An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project (**Section 4.3**).

The AVEP Project proposes to use new and/or existing groundwater wells located at the existing nearby Willow Springs Solar Project site, installation of new groundwater wells on each Facility site, and/or by trucking of AVEK water collected at one of the nearby locations owned by one of their suppliers.

# 3. Water Resources

The AVEP Project is located within the Antelope Valley Watershed which overlies the Antelope Valley Groundwater Basin.

## 3.1 Surface Water Resources

### 3.1.1 Antelope Valley Watershed

The AVEP Project would be located within the Antelope Valley Watershed, which covers approximately 2,400 square miles, ranging from 2,300 to 3,500 feet in elevation, in the western Mojave Desert and includes portions of Kern, Los Angeles, and San Bernardino Counties (**Figure 3-1**). The watershed is bounded by the San Gabriel Mountains to the south, the Tehachapi Mountains to the north, and a series of hills and buttes to the east. The climate in the Antelope Valley Watershed is typical of a semi-arid desert region, with mean daily temperatures from 63 degrees Fahrenheit (°F) to 93°F during the summer and 34°F to 57°F during the winter, and annual precipitation ranging from less than 4 inches on the valley floor to 20 inches in the mountains (AVRWMG 2013, WRCC 2017).

Natural surface water is typically generated from storm water runoff in the hills and mountains surrounding the Antelope Valley, which flows via ephemeral streams into the valley across alluvial fans and deeply excised washes. Major streams that drain into the Antelope Valley Watershed include Big Rock Creek, Little Rock Creek, and Amargosa Creek in the San Gabriel Mountains, and Oak Creek, which originates in the Tehachapi Mountains. The Antelope Valley Watershed is a closed basin, which means that there is no outflow of surface or ground water from the basin unless it is conveyed by artificial means (e.g., canal). Most drainages in the watershed terminate within or near the Rosamond, Rogers, Buckhorn, and Rich Dry Lakes, which are located on Edwards Air Force Base in the eastern portion of the watershed. Surface water runoff that collects in these dry lakes evaporates quickly; therefore, most infiltration and groundwater recharge estimated within the Antelope Valley Watershed is assumed to occur in the upgradient areas of the ephemeral streams and washes between the headwaters and the valley floor (USGS 2014).

In addition to the naturally occurring surface waters identified above, the East and West Branches of the California Aqueduct convey State Water Project (SWP) water supplies across the watershed via a series of canals. The Los Angeles Aqueduct also conveys surface water from the Owens River in the Eastern Sierra Nevada Mountains through the watershed to the Los Angeles region (DWR 2014).

### 3.1.2 Surface Water Supply

The majority of the surface water supplied within the valley is imported from the SWP. The SWP is the nation's largest state-built and –managed water and power development and conveyance system. It includes a series of canals, tunnels, pipelines, reservoirs, lakes, pumps, and power plants that collect, store, and convey water to approximately 29 contract water agencies that are responsible for treatment and distribution to regional users throughout the state. Water supplied by the SWP originates in the watersheds draining into Lake Oroville in Northern California (Butte County) and is conveyed for use in Southern California by a complex delivery system that includes the East and West Branches of the California Aqueduct within the Antelope Valley. Within the Antelope Valley, AVEK, the Littlerock Creek Irrigation District, and the Palmdale Water District have contracts with DWR for SWP entitlements (DWR 2018).

AVEK is one of the largest wholesale suppliers of SWP water to the region, with a service area that includes the AVEP Project site (AVEK 2016). SWP water is supplied and treated by AVEK to retail water suppliers within its service area; supplied to private agricultural, industrial, and commercial customers; and transferred to agencies outside of its service district. AVEK is contractually allocated up to 144,844 AF of SWP water in a given water year (October 1 to September 30), though the availability of SWP water depends on surface water availability, regulatory and legislative restrictions, and operational limitations (AVRWMG 2013, AVEK 2016). Approximately 47,000 AF of water was delivered by AVEK in 2015, which

was considered low as 2015 was a very dry year (AVEK 2016). AVEK projects water demand in its service area to vary between approximately 83,000 and 86,000 AF through 2035.

The Littlerock Creek Irrigation District and Palmdale Water District deliver SWP water along with water from Littlerock Reservoir and groundwater pumping to users within their service boundaries (AVRWMG 2013). The Littlerock Creek Irrigation District has a contract for SWP water of up to 2,300 AFY, and the Palmdale Water District has a contract for up to 21,300 AFY. Other urban retail water suppliers in the Antelope Valley supplement groundwater pumping with SWP water purchased from AVEK, including the RCSD, California City, Mojave Public Utility District, Quartz Hill Water District, and Boron Community Services District.

### 3.1.3 Surface Water Quality

The surface water supplies are provided by the SWP to AVEK. Four AVEK facilities treat SWP water to California's water quality standards before delivery to each of the retail water suppliers, including the RCSD (GEI 2017 and AVEK 2016).

## 3.2 Groundwater Resources

Water to be used during construction and operation of the Project's solar facilities may be from existing water wells from the Willow Springs Project site, installation of new on-site wells on each Facility site, and/or by trucking AVEK water collected at one of the nearby locations owned by one of their suppliers. The AVEP Project would be located in an adjudicated groundwater basin, as discussed in **Section 3.4**, and groundwater use is subject to management by a court-appointed Watermaster. Use of groundwater on the AVEP Project site would need to be compliant with the Adjudication Judgment as coordinated and appropriated by the Watermaster.

### 3.2.1 Antelope Valley Groundwater Basin

The AVEP Project site lies in the South Lahontan Hydrologic Region and, more specifically, overlies the Antelope Valley Groundwater Basin (Basin), an extensive alluvial valley fed by and generally underlying the Antelope Valley Watershed. The Basin is bounded by the Garlock fault zone at the base of the Tehachapi Mountains to the northwest; by the San Andreas Fault zone at the base of the San Gabriel Mountains to the southwest; and by ridges, buttes, and low hills to the north (**Figure 3-1**) (DWR 2004). Groundwater recharge is primarily provided by perennial runoff from the surrounding mountains and hills, with the majority historically provided by Big Rock and Littlerock Creeks at the southern end of the valley. The principal aquifer is also artificially recharged by injection of recycled and SWP water into aquifer storage and recovery wells (AVEK 2016) and by percolation of water from irrigation canals and wastewater management activities (AVRWMG 2013). Groundwater is produced by two main aquifers within the Basin, an upper (principal) aquifer and a deep aquifer. The upper aquifer is unconfined and is the principal source of groundwater for the Antelope Valley.

The United States Geological Survey (USGS) divides the Basin into 12 groundwater subunits based on differential groundwater flow patterns, recharge characteristics and geographic location. The AVEP Project will be located within the Willow Springs, Neenach, and Lancaster subbasins. The Willow Springs subbasin is bisected by the Rosamond-Willow Springs fault, which acts as an effective barrier to groundwater flow between the Willow Springs and Neenach subbasins (**Figure 3-2**). Technically, the Willow Springs subbasin is not considered part of the Basin due to the hydrogeological effects of the fault and local topography (USGS 2014); however, the Willow Springs subbasin was included with the 12 subbasins of the Basin in USGS models of groundwater flow and land subsidence to improve understanding of groundwater flow across the fault (USGS 2014). The Willow Springs subbasin was also included by the State of California in development of the boundary of the Antelope Valley Groundwater Basin adjudication (DWR 2004, 2014).

### 3.2.2 Groundwater Quality

The groundwater quality in the principle (upper) aquifer in the Antelope Valley Groundwater Basin is suitable for domestic, agriculture and industrial uses. Total Dissolved Solids (TDS) range from 200 milligrams per liter (mg/L) to 800 mg/L within this aquifer. Volatile organic compounds (VOC), semi-volatile VOCs (SVOC), nitrates, pesticides and inorganics have reported as exceeding the Maximum Contaminate Levels (MCL) in several wells located throughout the Antelope Valley Groundwater Basin (AVRWMG 2013).

### 3.2.3 Recharge and Storage Capacity

In the semi-arid Basin, natural recharge primarily originates from runoff from the surrounding mountains in ephemeral streams that flow into underlying aquifers. This runoff naturally recharges the groundwater supplies in the Basin and is important in maintaining a sustainable balance of stored groundwater. As summarized in the Antelope Valley IRWMP, past estimates of natural recharge have ranged from 30,300 AFY to 81,400 AFY, based on differences in methodologies and study assumptions (AVRWMG 2013). The USGS subsequently revised its 2010 estimate of recharge from 56,400 AFY to 59,900 AFY in their 2014 update to groundwater-flow and land-subsidence modeling (USGS 2014).

The total storage capacity of the Basin has been reported as between 68 and 70 million AF (DWR 2004). Usable storage has been estimated at 20 million AF. These storage capacity estimates do not reflect actual quantities of available groundwater within the Basin.

Heavy reliance on groundwater production to support agriculture in the Antelope Valley starting early in the 20$^{th}$ century has led to historical overdraft of the Basin (DWR 2014). Provision of SWP water starting in 1972 relieved some pressure on groundwater resources in the region, though population growth in the 1980s through the present day has further increased water demands (DWR 2014). Groundwater levels are thought to have declined by 40 to 100 feet in many areas, with declines in some locations exceeding 300 feet, resulting in land subsidence in overdrafted areas (USGS 2014). Further overdraft of the Basin would likely result in additional declines in water level, increased subsidence, and further decreases in storage capacity.

AVEK has operated groundwater banks since 2010 to improve the reliability of regional water supplies by storing water in groundwater banks in wetter years when surplus water is available from the SWP. The Westside Water Bank includes approximately 400 acres of groundwater recharge basins and 9 groundwater recovery wells. In 2016, the Eastside Water Banking and Blending Project started operations with three 2-acre recharge basins and three groundwater wells. A third groundwater bank, the Willows Springs Water Bank is located on 1,838 acres of agricultural land and can provide up to 500,000 AF of groundwater storage (AVEK 2016).

Currently, the maximum banking recharge volume available to AVEK is approximately 36,000 AFY (AVEK 2016). In addition to groundwater banking projects, AVEK has been allocated groundwater pumping rights to supplement its surface water supply at a pre-rampdown production rate of 4,000 AFY and an overlying production rate of 3,550 AFY at the end of the seven-year production rampdown period (beginning January 1, 2016) per the Antelope Valley Groundwater Adjudication Judgment discussed in detail in **Section 3.4**. Additionally, customers of AVEK will have an overlying groundwater production right of 19,300 AF at the end of the seven-year rampdown period, per the Judgment.

Depth to groundwater ranges from 150 feet to 350 feet in the Neenach subbasin, from 100 feet to 300 feet in the Willow Springs subbasin, and from 110 to 250 feet in the northern portion of the Lancaster subbasin. In the northern Lancaster subbasin, groundwater levels have remained steady from 1996 to 2005 or declined slightly as this region is less likely to be affected by agricultural or urban development (USGS 2014).

There are 10 groundwater monitoring wells located within 2 miles of the AVEP Project area that are regularly monitored by the USGS (USGS 2017). Depth to groundwater measured at these wells ranges from 190 to 350 feet over the past 10 years, and groundwater elevation has generally increased moderately over this same period for nine of the 10 monitoring wells. The monitoring well with declining groundwater elevation is likely located within the Willow Springs subbasin, while the other wells are likely located within the Neenach subbasin.[2]

The USGS has four active monitoring wells near the AVEP Project locations. Two of the monitoring wells report above average groundwater levels, one measured much above average and one well has average groundwater levels. The levels range from 295 feet below ground surface (bgs) to 355 feet bgs with the lowest groundwater level measure in a well located west of the AVEP Project at Willow Avenue and 150th Street. The wells were measured in March of 2017 (USGS 2017).

## 3.3 Groundwater Resource Management

California Department of Water Resource's Bulletin 118 is a periodically updated record of California's groundwater resources that defines groundwater basin boundaries, describes hydrological characteristics of those basins, provides information on groundwater management, and forecasts future conditions. Bulletin 118 was last updated for the Basin in 2016.[3] The 2016 update to Bulletin 118 does not provide a groundwater budget or estimates of overdraft for the Basin (DWR 2004).

The California Statewide Groundwater Elevation Modeling program prioritizes Bulletin 118 groundwater basins according to need for additional groundwater level monitoring. Basins are prioritized according to population overlying the basin, current and projected population growth, number of public supply wells, total number of wells, irrigated acreage, reliance on groundwater as primary source of water, and documented overdraft, subsidence, and water quality degradation. A leading indicator of basin priority is the reliance on groundwater as the primary source of water. The Basin is designated as high priority due to population growth, reliance on groundwater, and impacts to the groundwater resource (i.e., overdraft and ground subsidence) (DWR 2014). The prioritization of the Basin is aimed at improving regular and systematic monitoring of groundwater levels and increasing local collaboration to gain a better understanding of groundwater resources in the Basin, informing future management actions.

The California Water Plan (CWP), also known as Bulletin 160, is the state's strategic plan for managing and developing water resources. The DWR updates the CWP every five years to present status and trends of available surface and groundwater resources and projected water demands; the most recent update to the CWP was completed in 2013 (DWR 2014). The 2013 CWP presents reports for 10 hydrological regions covering the state. The Basin is located within the South Lahontan hydrologic region.

### 3.3.1 Water Budget and Safe Yield

The majority of groundwater users are not required to monitor and report their use in California. The DWR estimates extraction of groundwater across the state using land and water use information such as urban use reported by service districts, land use surveys, surface water use information, and reported extraction from voluntary reporting (DWR 2014). The DWR compiles groundwater use estimates into planning areas. There are five DWR planning areas in the South Lahontan hydrologic region, including the Antelope Valley planning area, which approximates the land area overlying the Basin. The DWR's estimate of average annual groundwater use in the Antelope Valley planning area between 2005 and 2010 was 98,300 AF; the third highest of the five planning areas in the South Lahontan hydrologic region, though the percentage of total water use supplied by groundwater in the Antelope Valley planning area was lowest in the hydrologic region, at 48 percent (DWR 2014). The valley's relatively low reliance on groundwater compared to other

[2] Well locations within groundwater subbasins are estimated based on geographic position. Subbasin boundaries are not geographically precise.
[3] The 2016 interim update to Bulletin 118 did not address the Antelope Valley Groundwater Basin.

planning areas in the region is likely due to the availability of water from the SWP for urban and agricultural uses (AVRWMG 2013).

The calculation of Native Safe Yield estimates natural recharge into the basin plus the addition of return flow from groundwater use. Total Safe Yield also includes the supplemental supply of imported water in addition to natural recharge and return flows. The Antelope Valley Watermaster 2017 report outlines the equations and calculations for both Native and Total Safe Yield from data analyzed in 2010. Two methods were used to calculate natural groundwater recharge: the mass balance approach and change in groundwater in storage method.

The basic mass balance storage equation that is used for recharge of a basin is: $-I - O = \Delta S$

Where:

I = total inflow to the basin including mountain-front recharge, streamflow and precipitation infiltration

O = total outflow from the basin from evapotranspiration (ET),

$\Delta$S = change in storage of the basin during the specified time period (TODD 2017).

The inflow rates in AFY in 2010 were calculated as:

19,800 (mountain-front recharge) + 36,600 (infiltration) = 56,400

The second method to estimate groundwater recharge, the change in groundwater in storage, was applied to the water balance equation as shown below:

*Change in Groundwater in Storage = Inflows (recharge–) - Outflows*

The method uses groundwater elevation contour maps, groundwater well measurements and estimates of aquifer textures (estimates of silt, sand, and clay) which are assigned a specific yield (Sy). The Sy in the aquifer system is varied and it was determined that Sy corresponded to the interval of the aquifer with flux in water levels (TODD 2017), resulting in groundwater storage changes. Outflows in the basin are from groundwater pumping and the change in storage. A rearranged equation calculated inflows of 55,000 AFY to 58,000 AFY, close to the estimate from the mass balance method. A total native recharge of 60,000 AFY was utilized in the 2017 Watermaster report for Antelope Valley.

Return flows from municipal, agricultural and domestic irrigation applications are common. The Summary Expert Report (Beeby et al. 2010) estimated 27.1% overall return flow for the Antelope Valley Basin. This estimate was applied to the 60,000 AFY estimated above and calculated a Native Safe Yield of 82,300 AFY.

Total Safe Yield is calculated as the sum of the Native Safe Yield plus return flows from imported water (TODD 2017). Imported water and its use were analyzed by a team of experts tapped by the WaterMaster. The team concluded that imported water returns were 27,700 AFY and when added to the Native Safe Yield of 82,300 AFY for a total of 110,000 AFY.

The AVEP Project plans to utilize 900 AF during its one-year construction phase and collectively use 30 AFY for the life of the solar Facilities. Based on the Total Safe Yield of 110,000 AFY for the Antelope Valley Basin and the 2016 total groundwater usage of 97,334 AFY (TODD 2017), the AVEK Project will minimally impact the usage rates and will remain below both Native and Total Safe Yield during its construction and production phase. Table 3.3.1-1 outlines the AVEP Project and Antelope Valley production versus Total Safe Yield.

| Table 3.3.1-1 Groundwater Usage Versus Total Safe Yield | | | | | |
|---|---|---|---|---|---|
| Year | AVEP Project Groundwater Usage (AFY) | Antelope Valley Groundwater Usage (AFY) | Total Groundwater Usage (AFY) | Total Safe Yield for Antelope Valley Basin Groundwater (AFY) | Difference in Total Safe Yield and Total Groundwater Usage (AFY) |
| 2020 | 900 | 77,350 | 78,250 | 110,000 | 31,750 |
| 2021 | 30 | 67,836 | 67,866 | 110,000 | 42,134 |
| 2022 | 30 | 58,322 | 58,352 | 110,000 | 51,648 |
| 2023 | 30 | 58,322 | 58,352 | 110,000 | 51,648 |
| 2024 | 30 | 58,322 | 58,352 | 110,000 | 51,648 |
| 2034(1) | 300 | 583,220 | 583,520 | 1,100,000 | 516,480 |
| 2044(1) | 300 | 583,220 | 583,520 | 1,100,000 | 516,480 |

Notes:
(1) Values for 2034 and 2044 represent water usage, safe yield, and difference in total safe yield and total groundwater usage over a 10-year period.
Source: Antelope Valley Groundwater Production provided from TODD 2017, Appendix E. and exclude non-overlying Parties, Federal, State, and City of Lancaster.

As shown in Table 3.3.1-1, the amount of groundwater in AF used for all Antelope Valley Parties and for the AVEP Project is well under the Total Safe Yield calculated in 2017 by the TODD report.

## 3.3.2 Supply Management Plans

Water Code § 10750-10755 was established with the intent of ensuring safe groundwater production and quality through basin-level groundwater management programs. As a direct result of this legislation, Assembly Bill (AB) 3030 instituted a systematic procedure for existing local agencies to develop these management programs through Groundwater Management Plans in 1992. As established under AB 3030, Groundwater Management Plans may be voluntarily developed and will include basin management objectives, cooperation with other agencies whose service area or boundary overlies the basin; maps of the plan area recharge areas, and adoption of monitoring protocols (DWR 2014). Subsequent legislation required public agencies to prepare and implement Groundwater Management Plans if an agency seeks state funds administered through the DWR to construct groundwater projects in 2002 (SB 1938), and in 2011 required that plans include a component that focuses on identifying groundwater recharge areas (DWR 2017). The Sustainable Groundwater Management Act of 2014 was enacted to further groundwater management in basins that are most threatened by overuse by prioritizing basins, establish sustainability plan requirements, form local groundwater management agencies and create timelines for management plans.

Groundwater Management Plan legislation and groundwater sustainability plan requirements under the Sustainable Groundwater Management Act do not apply to the Basin because it has been adjudicated by the California Superior Court (**Section 3.4**). However, the Antelope Valley IRWMP and UWMPs developed by several public water suppliers in the Antelope Valley have been prepared to include the elements of a

Groundwater Management Plan as specified under AB 3030. This groundwater planning information has informed this report.

Future groundwater uses within the Basin, and ultimately by the Project, will be managed by a court appointed Watermaster, as described below.

## 3.4 Antelope Valley Groundwater Basin Adjudication

The State Board regulates and permits the right to use surface water in California (with exceptions to some historical water rights); however, land owners have historically had unrestricted rights to extract groundwater resources without state approval if they are extracting water underlying their property (CalEPA 2017). In some basins where groundwater overdraft has resulted in legal disputes, water use is managed under court decree through the process of adjudication. The court determines the amount of water that can be pumped annually from the adjudicated basin without causing undesirable effects to the basin such as depletion of the aquifer, ground subsidence, and water quality degradation; and sets amounts of groundwater that can be produced by specific users accordingly.

The formal adjudication process for the Basin began in 1999 with litigation filed by agricultural water users against several public water suppliers. This and other subsequent filings related to groundwater allocation were consolidated into a general adjudication for the Basin in 2004. The adjudication process proceeded in court over the following years until Superior Court Judge Jack Komar made a final ruling in December 2015 (**Appendix A** and **Figure 3-3**). This adjudication decision defined the process by which groundwater resources available for pumping must be quantified, defined use limitations for various water users and classes of user and authorized the formation of a Watermaster to manage the Basin in accordance with the adjudication.

The Watermaster consists of a five-member board composed of one representative each from AVEK, the Los Angeles County Waterworks District 40, a single Public Water Supplier representative selected by Public Water Suppliers in the Basin (including AVEK and Los Angeles County Waterworks District 40), and two non-public-agency landowners elected by landowners identified in the adjudication judgement. The Watermaster's responsibilities include prescribing pumping rights of individual users, management and control of groundwater supplies within the adjudicated Basin, determining safe yield for each upcoming fiscal year, entering into storage agreements, and regulation and oversight of transfer of production rights (TODD 2017).

The 2015 Basin adjudication is being phased in through a seven-year "rampdown period," which began January 1, 2016. During the first two years of the rampdown period, producers are not limited by the adjudication assessment, though they will be required to install monitoring equipment if it is not already present. Project applicants may be required to submit well completion reports to the DWR if wells must be altered for compliance with the adjudication monitoring requirements. Production will be reduced in equal annual increments relative to safe yield during years three through seven of the rampdown period, with the exception of private parties that have historically pumped minor amounts of groundwater for use on their property.

Based on the AVEP Project schedule, the effects of the Basin adjudication decision on groundwater use are likely to change over the life of the Project. Groundwater use on the AVEP Project site will need to be compliant with the Basin adjudication, which will be achieved through coordination with the Watermaster, as necessary.

# 4. Water Supply Availability

The AVEP Project site is located in an area without a public water purveyor that can practicably provide water for the Project as the RCSD service area is located east of the AVEP Project sites (see **Figure 4-1)**. The only practicable water source for the AVEP Project is the underlying Antelope Valley Groundwater Basin. The AVEP Solar Project water needs will be met utilizing one of the three alternatives noted in Section 1.1 above.

The AVEP Project area will be located on 2,117 acres of undeveloped open desert land active agricultural land, and five properties with residential structures that will be removed as a part of project construction.

The few residential properties located on the AVEP Project site are outside of the RCSD service area and likely use groundwater for drinking water. The amount of water utilized by each residence on the AVEP Project site is not available, though an estimate of 199 gallons per day or 0.223 AFY are utilized by each person within the Antelope Valley Groundwater Basin (AVRWMG 2013).

## 4.1 Project Water Demands

AVEP Project water demands are divided into construction and operational phases. The majority of water use for the AVEP Project would occur during the initial 12-month construction phase (**Table 4.1-1**). The construction phase is anticipated to begin January 1, 2020, and end December 31, 2020. Water would primarily be used for dust control during site preparation, trenching, and panel installation, and along access ways during the construction phase, and would also be required for temporary construction trailers and fire safety requirements. The peak annual water use during construction is 900 AF in 2020.

**Table 4.1-1 Construction Phase AVEP Project Water Requirements**

| **Year** | **2020** |
|---|---|
| | **Water Usage (AF)** |
| Chaparral | 300 |
| Rabbitbrush | 300 |
| Tumbleweed | 300 |
| **Project Total** | **900** |

The Project's operational water consumption is expected to be approximately 30 AFY; 10 AF per Facility. The principal uses will be for O&M buildings (toilets and hand washing facilities), and potentially used for PV solar panel washing. Potable water would be imported for O&M staff consumption.

**Table 4.1-2** identifies the AVEP Project's estimated annual water requirements over 20 years from the start of construction to satisfy the analysis time frame required under SB 610. **Table 4.1-2** also shows water use over five-year increments to facilitate comparisons with supply availability, which is provided in five-year increments. The total forecasted AVEP Project water use over 20 years is 1,470 AF.

| Table 4.1-2 20-year Annual AVEP Project Water Supply Requirements | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Year | 1 | 2 | 3 | 4 | 5 (2024) | 10[1] | 15 (2034) | 20 |
| Acre-feet | 900 | 30 | 30 | 30 | 30 | 150 | 150 | 150 |
| **Running Total [2]** | **900** | **930** | **960** | **990** | **1020** | **1170** | **1320** | **1470** |
| 5-Year Average | - | - | - | - | 204 | 30 | 30 | 30 |

Note:
[1] 30 AFY for 5 years = 150 AF
[2] Total = running total of all water supply requirement from previous years

## 4.2 Projected Water Supply

The AVEP Project water needs will be met utilizing one of the three alternatives noted in Section 1.1 above. The water supply for the AVEP Project would be provided by off-site water rights presently controlled by the Applicants and/or their affiliates and which were acquired from three sources: Rosamond Ranch, Landinv, Inc. and a confidential water agreement. See **Table 4.2-1** for the Project's water rights schedule.

Construction at the AVEP Project will occur over a 12-month period starting January 2020 and will require 900 AF. The total water available through offsite water rights acquired is expected to be 4,123.00 AF in 2020, well above the construction water requirements for the AVEP Project. After construction is complete, 4,852.44 AF in 2021 and 5,581.88 AF in 2022 will remain unused and available. The amount of water available for the AVEP Project is therefore well above the projected demand for the AVEP Project's construction (900 AFY) and operation phases (30 AFY).

| Table 4.2-1 Antelope Valley Water Rights Schedule for the AVEP Solar Project | |
|---|---|
| **Years** | **Total Water Available (AF) including Carry-over[1]** |
| 2016 | 1,334.34 |
| 2017 | 2,059.68 |
| 2018 | 2,794.12 |
| 2019 | 3,393.56 |
| 2020 | 4,123.00 |
| 2021 | 4,852.44 |
| 2022 | 5,581.88 |
| 2023 | 6,311.32 |
| 2024 | 7,040.76 |

[1] Total water available (AF) includes annual water rights and annual amount permitted to carry over. Carry over production rights have not yet been established by the Watermaster for the Antelope Valley (TODD 2017). As such, the carry over rights are based on the pre-rampdown production rights.

# 5. Conclusions

The 900 AF demands during the 12-month construction period and the 30 AFY demands during operations for the AVEP Project will be met by the available groundwater sources. Groundwater rights for the AVEP Project were allocated by the Antelope Valley Watermaster and the resources are sufficient to meet the AVEP Project demands. Groundwater use for construction and operations over the 20-year life of the AVEP Project will not cause significant impact to the Basin.

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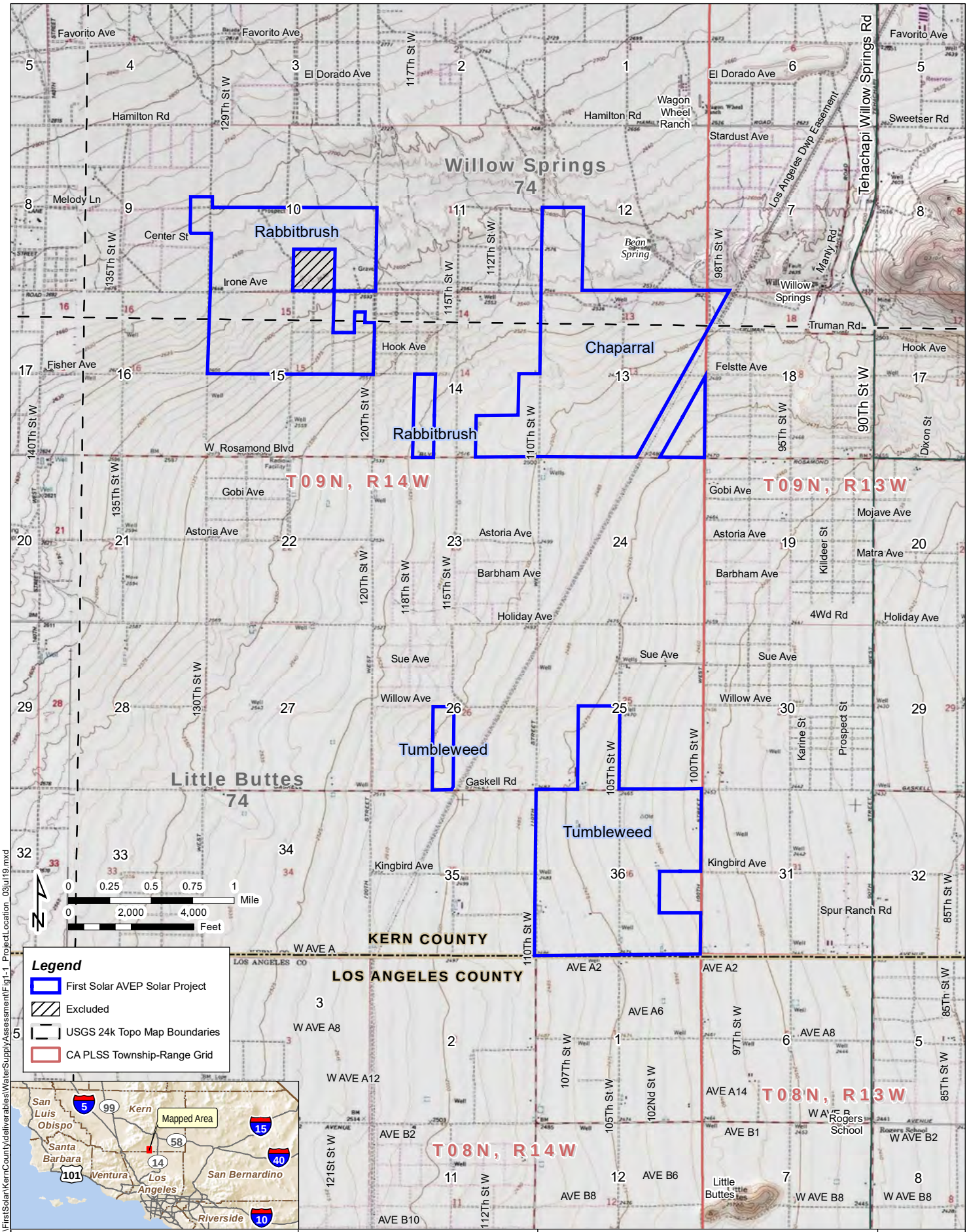
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# Figures




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**First Solar - Water Supply Assessment**
**Tumbleweed, Rabbitbrush, and Chaparral**
**Kern County**

AECOM

Source: [1] Seamless, scanned images of United States Geological Survey (USGS) paper topographic 1:24,000-scale maps by National Geographic TOPO!: Willow Springs ('74) and Little Buttes ('74), [2] California Geospatial Library PLS, [3] Kern County Office of the Assessor.

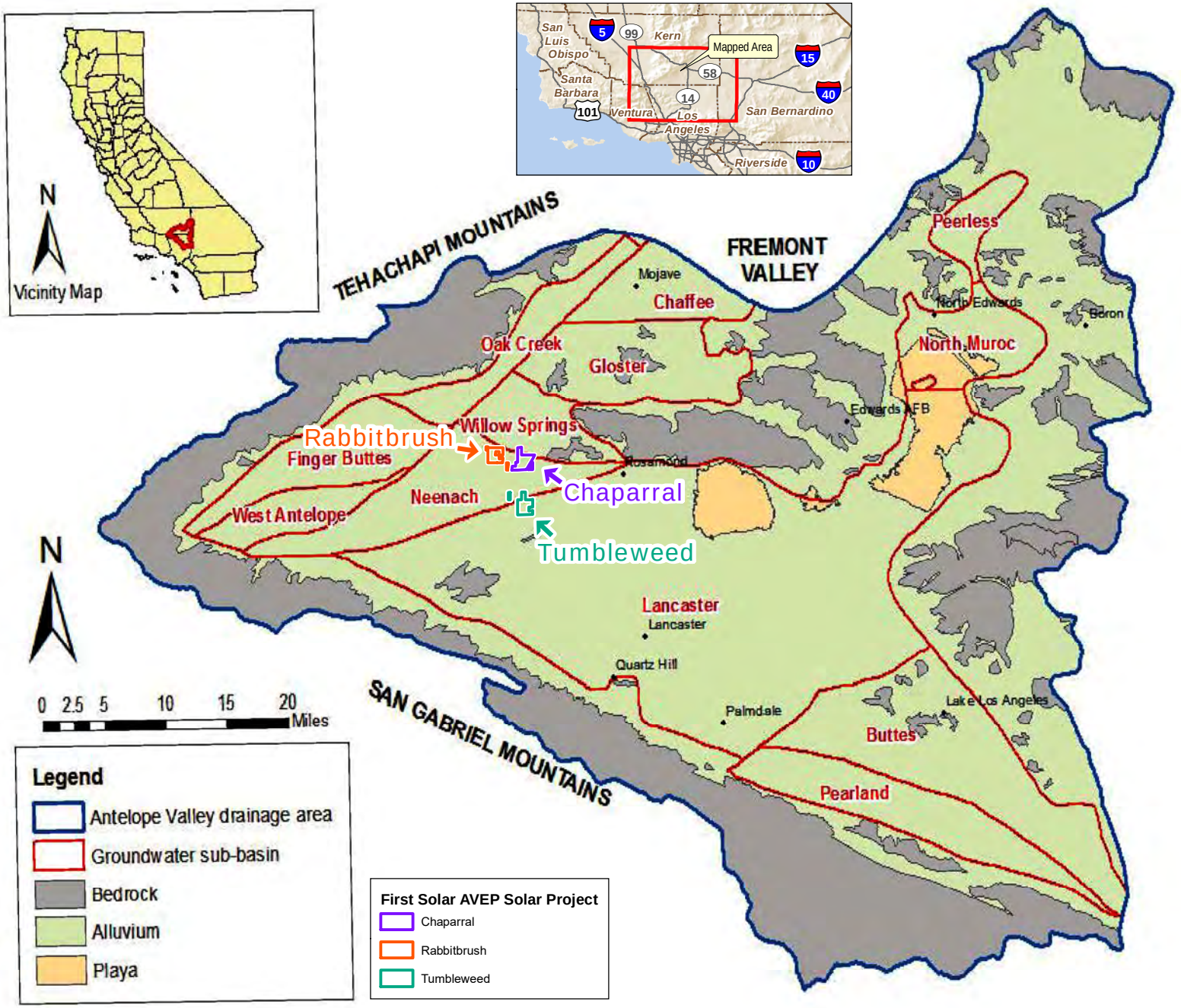
**Figure 1-1** Project Location

2019



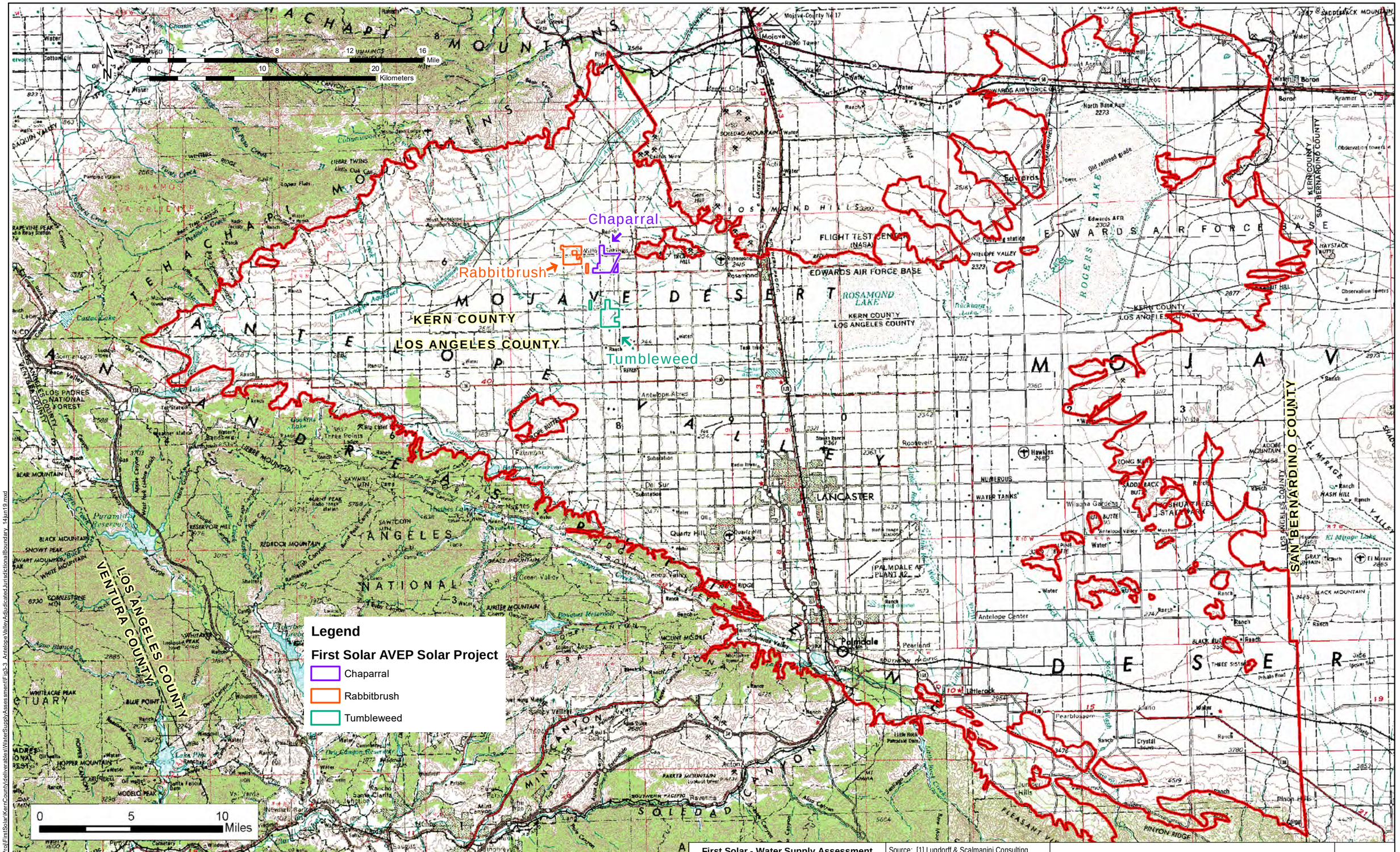

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| | | | |
|---|---|---|---|
| **First Solar - Water Supply Assessment Tumbleweed, Rabbitbrush, and Chaparral Kern County** AECOM | Source: 8 Digit Watershed Boundary Dataset NRCS Version accessed 2/26/2018 https://datagateway.nrcs.usda.gov/Catalog /ProductDescription/ WBD_NRCSVersion.html | **Figure 3-1** Antelope Valley Watershed | 2019 |




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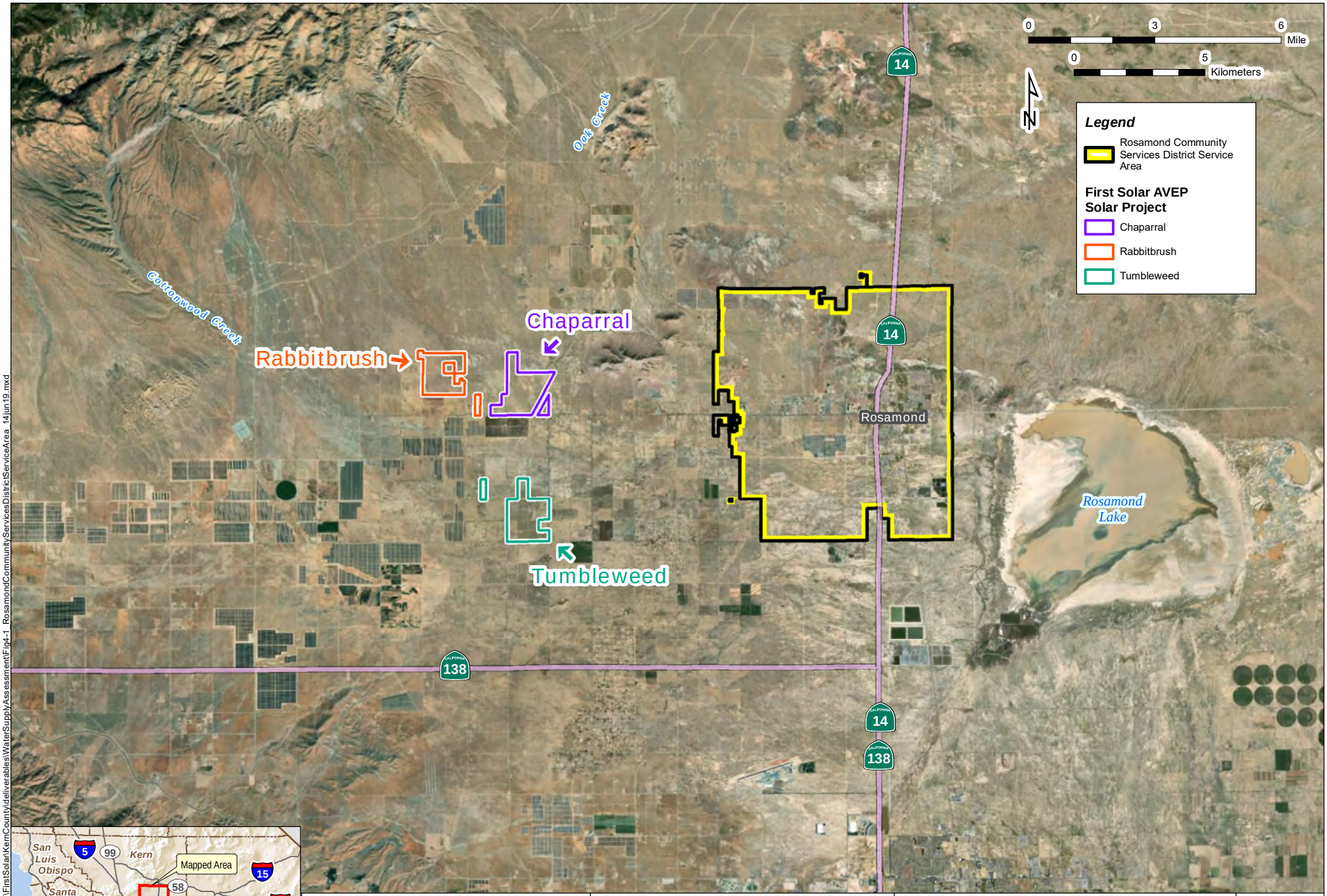
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|---|---|---|---|---|
| | **First Solar - Water Supply Assessment**<br>**Tumbleweed, Rabbitbrush, and Chaparral**<br>**Kern County**<br>AECOM | Source: Figure 2-1: Groundwater Sub-Basin Boundary Map, 2014 Salt and Nutrient Management Plan for the Antelope Valley, Page 2-2. | **Figure 3-1** Antelope Valley Watershed | 2019 |




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| | | | |
|---|---|---|---|
| First Solar - Water Supply Assessment<br>Tumbleweed, Rabbitbrush, and Chaparral<br>Kern County<br>AECOM | Source: [1] Lugdorff & Scalmanini Consulting Engineers; Accessed online 2/26/2018 http://www.juniperhills-ca.org/jhtc/PDF%20Versions/Groundwater%20Rights%20-%20Adjudicated%20Boundary.pdf | **Figure 3-3** Antelope Valley Adjudicated Jurisdictional Boundary | 2019 |




V:\Projects\GIS Proj\FirstSolar\KernCounty\deliverables\WaterSupplyAssessment\Fig4-1 RosamondCommunityServicesDistrictServiceArea 14jun19.mxd

**First Solar - Water Supply Assessment**
**Tumbleweed, Rabbitbrush, and Chaparral**
**Kern County**

AECOM

Source: [1] Map provided by the Rosamond Community Services District; [2] Esri World Imagery, DigitalGlobe, 11/24/2016.

**Figure 4-1** Rosamond Community Services District

2019

# Addendum A
# Technical WSA Update for AVEP Solar Project Revision

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Camarillo
CA, 93012
USA
aecom.com

**Project Name:**
AVEP Solar Project Revisions

**Project Ref:**
60608379

**To:**
County of Kern Planning and Natural Resources Department
2700 M Street, Suite 100
Bakersfield, California 93301

**From:**
AECOM

**Date:**
June 11, 2020

# Memo

**Subject: Technical WSA Update for AVEP Solar Project Revisions**

# 1. INTRODUCTION

AECOM prepared the *Water Supply Assessment, First Solar AVEP Project, Tumbleweed Solar, Rabbitbrush Solar, and Chaparral Solar* (WSA) (July 2019) for the AVEP Solar Project (Project) analyzing the available water resources to supply the Project. This memo has been prepared to update Project water use assumptions as analyzed in the WSA in conjunction with modifications to the Project. The components of the modifications consist of (1) the removal of the approximate 721-acre Tumbleweed Solar Facility from the Project; and (2) increasing the Chaparral Solar Facility from approximately 764 acres to approximately 774 acres to include an optional location for the proposed energy storage system (ESS), through the addition of an approximate 10-acre parcel to the Chaparral Solar Facility site.

The added Chaparral Solar Facility 10-acre parcel is located at the northwest corner of Holiday Avenue and 110$^{th}$ Street West, directly across Holiday Avenue from the existing Willow Springs Solar Project Substation. The proposed capacity of the ESS on both the Rabbitbrush and Chaparral Solar Facilities (Facilities) has been increased, from approximately 500 megawatt-hours (MWh) of energy storage capacity on each facility, to approximately 1,000 megawatt-hours (MWh) of energy storage capacity on each facility (for a combined project total of approximately 2,000 MWh); however, the proposed acreage of each ESS would remain at approximately 5 acres of land within each facility site. As shown on Figure 1 – Project Map, and Figure 2 – Site Plan, a portion of the remainder of the added 10-acre parcel to the Chaparral Solar Facility would be occupied by access easements for electric collection and temporary water lines.

This memorandum updates the technical analysis and the evaluation of the potential impact of the Project's use of available water resources as presented in the WSA by providing revised Project water demands. In summary, the Project modifications result in a reduction of the water use as previously analyzed and presented in the WSA. Since the Project modifications would reduce the Project's water demand, the stated conclusion of the WSA that the Project's water demands during construction and operations would not cause significant impact to the Antelope Valley Groundwater Basin does not change.

## 1.1 MODIFIED PROJECT DESCRIPTION

As proposed, the Project would construct, operate, and eventually decommission two solar photovoltaic power generating facilities that would be capable of delivering a total of approximately 250 megawatts of alternating current (MW-ac) electricity, along with associated facilities including ESS units. The Project consists of two non-contiguous

solar generating facilities, the Rabbitbrush Solar Facility (125 MW-ac) and Chaparral Solar Facility (125 MW-ac) and an ESS to store approximately 1,000 MWh for each facility.

## 1.2 MODIFICATIONS TO THE ANALYSIS

Potential environmental effects resulting from the Project modifications as compared to the Project previously analyzed in the WSA are presented below. Implementing the Project modifications, either separately or as a whole, would not result in any new or more severe environmental effects than identified in the WSA. The modifications would not affect the significance conclusions presented in the WSA. Accordingly, consistent with the stated less than significant determination concluded in the WSA, the modifications are not anticipated to require any mitigation measure(s).

To reach these conclusions, this memorandum analyzes the individual effect that removing the Tumbleweed Solar Facility and the addition of an optional location for the ESS at the Chaparral Solar Facility would have on available water resources. The memorandum then analyzes the combined effect of the two actions on the impact to available water resources. The WSA assumed that the Project's total construction water consumption would be approximately 900 acre-feet (AF) (300 AF per Facility), and the Project's operational water consumption would be approximately 30 acre-feet/year (AFY) (10 AFY per Facility). This memorandum updated water use values for the modified Project.

### 1.2.1 Removing the Tumbleweed Solar Facility

With the removal of the Tumbleweed Solar Facility, the overall expected Project water use would be reduced from approximately 900 AF to approximately 600 AF during Project construction, and from approximately 30 AFY to approximately 20 AFY during Project operations. Updates to the expected Project construction water use are presented in **Table 1** below. The data in this table updates the Project water demands presented in Table 4.1-1 of the WSA.

**Table 1. Expected Construction Phase AVEP Project Water Requirements**

| Facility | Construction Phase Water Usage (AF) |
|---|---|
| Chaparral | 300 |
| Rabbitbrush | 300 |
| **Project Total** | **600** |

Additionally, Table 4.1-2 of the WSA showing water use over 5-year increments to facilitate comparisons with supply availability has been updated in **Table 2** below. The total expected AVEP Project water use for the modified Project over 20 years is 980 AF, reduced from the total of 1,470 AF which was analyzed in the WSA.

**Table 2. 20-year Annual AVEP Project Water Supply Requirements**

| **Year** | **1** | **2** | **3** | **4** | **5 (2024)** | **10[(1)]** | **15 (2034)** | **20** |
|---|---|---|---|---|---|---|---|---|
| AF | 600 | 20 | 20 | 20 | 20 | 100 | 100 | 100 |
| **Running Total [(2)]** | **600** | **620** | **640** | **660** | **680** | **780** | **880** | **980** |
| 5-Year Average | - | - | - | - | 136 | 20 | 20 | 20 |

Notes:
(1) 20 AFY for 5 years = 100 AF
(2) Total = running total of all water supply requirements from previous years

The modified Project's construction and operations water needs would be met utilizing one of the three options noted in the WSA:

1. New and/or existing wells on each individual Facility site and/or wells shared by one or more of the two Facilities.
2. Existing wells on the Willow Springs Solar Project site. If water is supplied from the adjacent Willow Springs Project site, it will be piped via a temporary construction pipeline or trucked.
3. Trucked Antelope Valley-East Kern Water Agency water collected at one of the nearby locations owned by one of their suppliers.

Consistent with the description in the WSA, the water supply for the modified Project would be provided by off-site water rights presently controlled by the Applicants and/or their affiliates and which were acquired from three sources: Rosamond Ranch, Landinv, Inc. and a confidential water agreement. The Project modifications would not result in changes to the total available water rights (Table 4.2-1 of the WSA).

Construction of the modified Project will occur over a 12- to 24-month period and will require approximately 600 AF in total. As stated in the WSA, the total water available through off-site water rights acquired is expected to be 4,852.44 AF in 2021, and 5,581.88 in 2022, well above the construction water requirements for the modified Project (Table 3). The amount of water available for the modified Project is therefore well above the projected demand for construction (600 AFY) and operation phase (20 AFY).

**Table 3. Antelope Valley Water Rights Schedule for the AVEP Solar Project**

| Years | Total Water Available (AF) including Carry Over [(1)] |
|---|---|
| 2021 | 4,852.44 |
| 2022 | 5,581.88 |
| 2023 | 6,311.32 |
| 2024 | 7,040.76 |

[(1)] Total water available (AF) includes annual water rights and annual amount permitted to carry over.

The removal of the Tumbleweed Solar Facility will reduce the expected water demand of the modified Project by 300 AF during construction and by 10 AFY during operations for a total reduction in water demand of 490 AF over 20 years. The WSA concluded that a total water demand of 1,470 AF over 20 years could be met by available and allocated groundwater sources and that the Project would not cause significant impact to the underlying groundwater basin. As such, the reduction in water demand by 490 AF does not change the conclusions of the WSA that there are sufficient groundwater resources available to meet the Project water demands and that the proposed water demands over the 20-year life of the Project will not cause significant impact to the Antelope Valley Groundwater Basin. Mitigation measures are not anticipated to be required for groundwater use resulting from the modified Project.

### 1.2.2 Relocating the ESS for the Chaparral Solar Facility

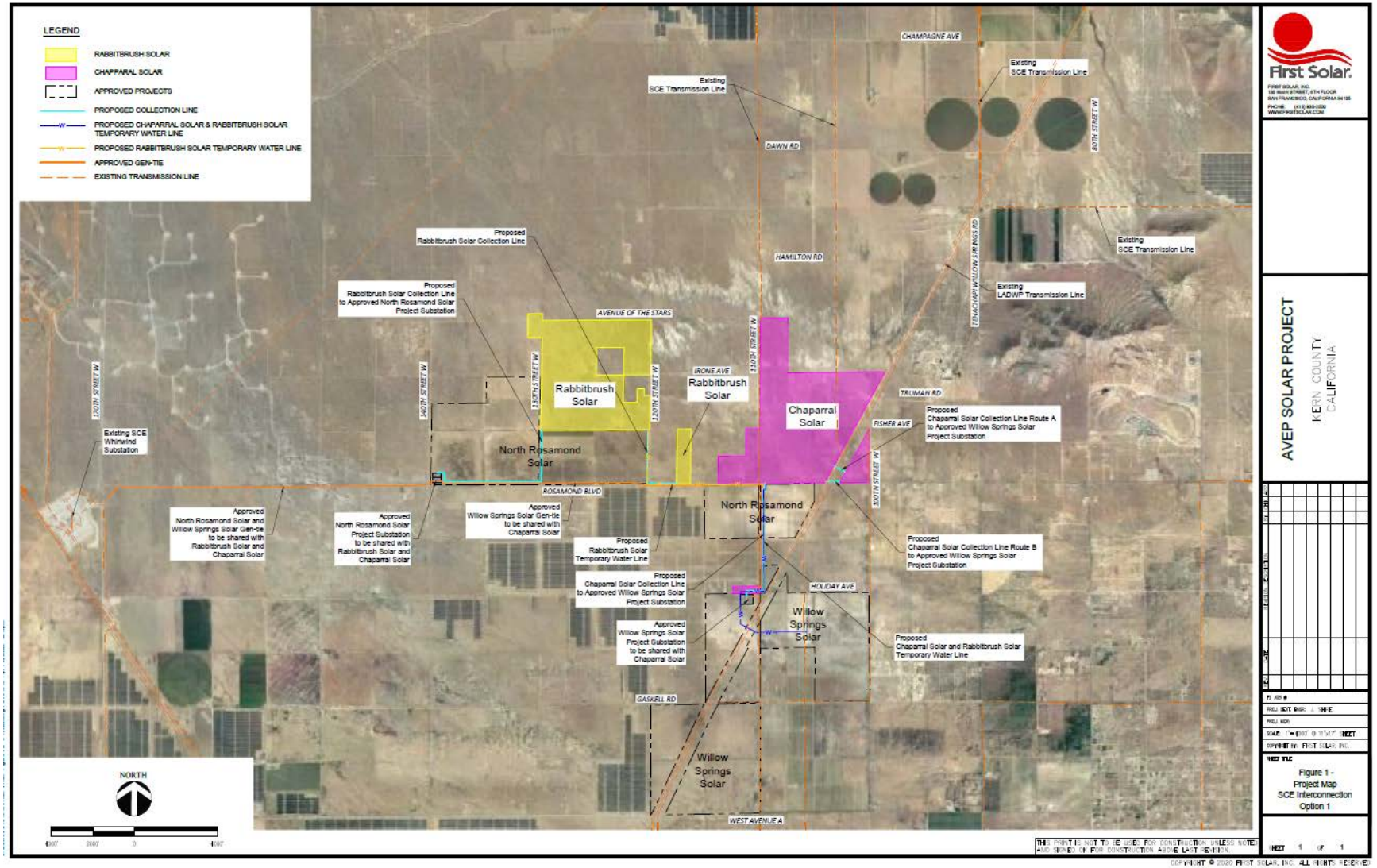
Impacts on available groundwater resources were analyzed in this memo due to the addition of an optional location for the ESS for the Chaparral Solar Facility. This modification includes adding a 10-acre parcel to the Chaparral Solar Facility located at the northwest corner of Holiday Avenue and 110$^{th}$ Street West, directly across Holiday Avenue from the existing Willow Springs Solar Project Substation. This modification does not result in a change to the Project's expected construction or operational water use. The modification does not introduce any new environmental effects or a significant increase in the severity of environmental effects that were previously analyzed in the WSA. Therefore, the modification to the Chaparral Facility does not change the conclusions of the WSA, and mitigation measures are not anticipated to be applicable.

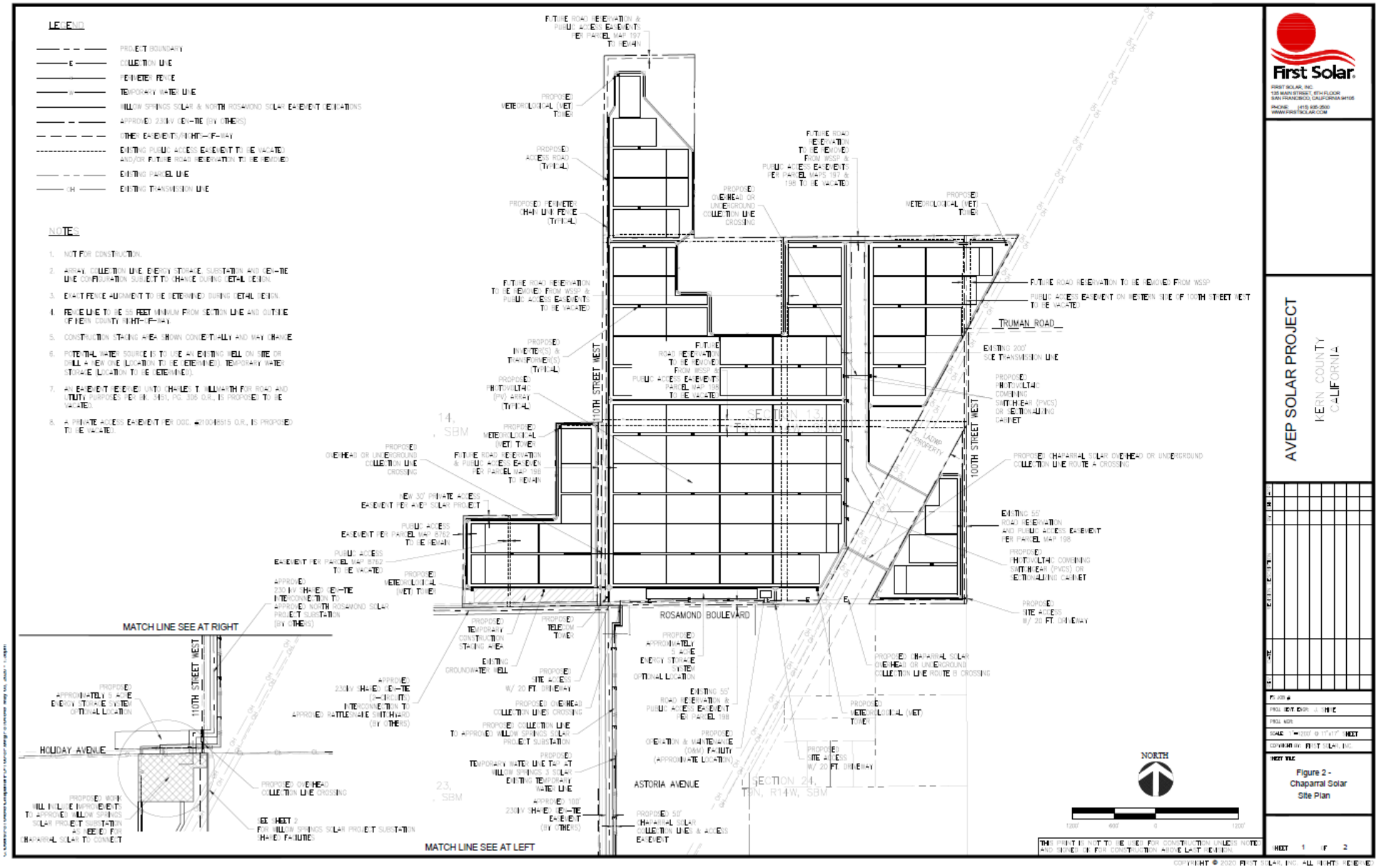
### 1.2.3 Combined Effect of Both Project Modifications

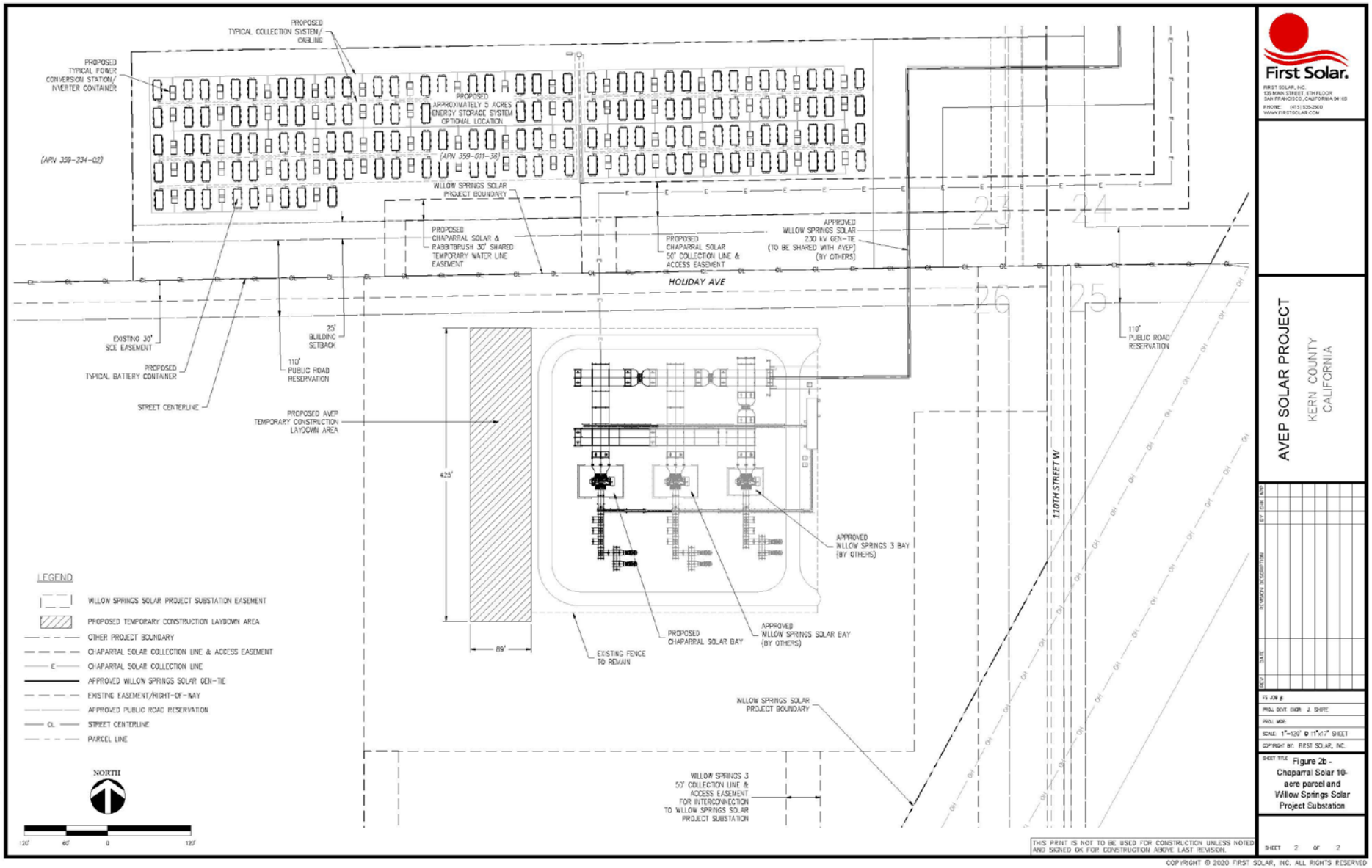
An analysis of the combined effect of the modified Project was conducted to evaluate the effect on groundwater supplies. Modifications consisting of removing the Tumbleweed Solar Facility and adding an optional location for the ESS for the Chaparral Solar Facility result in a reduced water demand for the modified Project. As such, the reduction in water demand by 490 AF does not change the conclusions of the WSA that state that there are sufficient groundwater resources available to meet the Project water demands, and that the proposed water demands over the 20-year life of the Project will not cause significant impact to the Antelope Valley Groundwater Basin. Mitigation measures are not anticipated to be required for groundwater use resulting from the modified Project.

# 2. CONCLUSION

When considered both individually and together, the modifications to the Project would not result in any new or more severe significant effects to the Antelope Valley Groundwater Basin. Accordingly, the WSA's previous analysis and conclusions do not change as a result of the modified Project. Mitigation measures are not anticipated to be required.


LEGEND
RABBITBRUSH SOLAR
CHAPPARAL SOLAR
APPROVED PROJECTS
PROPOSED COLLECTION LINE
PROPOSED CHAPARRAL SOLAR & RABBITBRUSH SOLAR TEMPORARY WATER LINE
PROPOSED RABBITBRUSH SOLAR TEMPORARY WATER LINE
APPROVED GEN-TIE
EXISTING TRANSMISSION LINE
Existing SCE Transmission Line
Existing SCE Transmission Line
Existing SCE Transmission Line
Existing LADWP Transmission Line
Proposed Rabbitbrush Solar Collection Line
Proposed Rabbitbrush Solar Collection Line to Approved North Rosamond Solar Project Substation
Existing SCE Whirlwind Substation
Approved North Rosamond Solar and Willow Springs Solar Gen-tie to be shared with Rabbitbrush Solar and Chaparral Solar
Approved North Rosamond Solar Project Substation to be shared with Rabbitbrush Solar and Chaparral Solar
Approved Willow Springs Solar Gen-tie to be shared with Chaparral Solar
Proposed Rabbitbrush Solar Temporary Water Line
Proposed Chaparral Solar Collection Line to Approved Willow Springs Solar Project Substation
Approved Willow Springs Solar Project Substation to be shared with Chaparral Solar
Proposed Chaparral Solar Collection Line Route A to Approved Willow Springs Solar Project Substation
Proposed Chaparral Solar Collection Line Route B to Approved Willow Springs Solar Project Substation
Proposed Chaparral Solar and Rabbitbrush Solar Temporary Water Line
Rabbitbrush Solar
Rabbitbrush Solar
Chaparral Solar
North Rosamond Solar
North Rosamond Solar
Willow Springs Solar
Willow Springs Solar
CHAMPAGNE AVE
DAWN RD
HAMILTON RD
AVENUE OF THE STARS
IRONE AVE
TRUMAN RD
FISHER AVE
ROSAMOND BLVD
HOLIDAY AVE
GASKELL RD
WEST AVENUE A
90TH STREET W
100TH STREET W
110TH STREET W
120TH STREET W
130TH STREET W
140TH STREET W
TEHACHAPI WILLOW SPRINGS RD
NORTH
First Solar.
AVEP SOLAR PROJECT
KERN COUNTY
CALIFORNIA
Figure 1 -
Project Map
SCE Interconnection
Option 1
SHEET 1 OF 1
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LEGEND
PROJECT BOUNDARY
COLLECTION LINE
PERIMETER FENCE
TEMPORARY WATER LINE
WILLOW SPRINGS SOLAR & NORTH ROSAMOND SOLAR EASEMENT RELINQUISHMENTS
APPROVED 230kV GEN-TIE (BY OTHERS)
OTHER EASEMENT/RIGHT-OF-WAY
EXISTING PUBLIC ACCESS EASEMENT TO BE VACATED AND/OR FUTURE ROAD RELINQUISHMENT TO BE REMOVED
EXISTING PARCEL LINE
EXISTING TRANSMISSION LINE
NOTES
1. NOT FOR CONSTRUCTION.
2. ARRAY, COLLECTION LINE, ENERGY STORAGE, SUBSTATION, AND GEN-TIE LINE CONFIGURATION SUBJECT TO CHANGE DURING DETAILED DESIGN.
3. ENHANCED FENCE ALIGNMENT TO BE DETERMINED DURING DETAILED DESIGN.
4. FENCE LINE TO BE 55 FEET MINIMUM FROM SECTION LINE AND OUTSIDE OF KERN COUNTY RIGHT-OF-WAY.
5. CONSTRUCTION STAGING AREA SHOWN CONCEPTUALLY AND MAY CHANGE.
6. POTENTIAL WATER SOURCE IS TO USE AN EXISTING WELL ON SITE OR DRILL A NEW ONE (LOCATION TO BE DETERMINED). TEMPORARY WATER STORAGE LOCATION TO BE DETERMINED.
7. AN EASEMENT RELINQUISHMENT UNTIL CHANDLER WILLWORTH FOR ROAD AND UTILITY PURPOSES PER BK. 1965, PG. 308 O.R., IS PROPOSED TO BE VACATED.
8. A PRIVATE ACCESS EASEMENT PER DOC. #19004515 O.R., IS PROPOSED TO BE VACATED.
FUTURE ROAD RELINQUISHMENT & PUBLIC ACCESS EASEMENT PER PARCEL MAP 197 TO REMAIN
PROPOSED METEOROLOGICAL (MET) TOWER
PROPOSED ACCESS ROAD (TYPICAL)
PROPOSED PERIMETER CHAIN LINK FENCE (TYPICAL)
FUTURE ROAD RELINQUISHMENT TO BE REMOVED FROM WSSP & PUBLIC ACCESS EASEMENT TO BE VACATED
PROPOSED INVERTER(S) & TRANSFORMER(S) (TYPICAL)
PROPOSED PHOTOVOLTAIC (PV) ARRAY (TYPICAL)
PROPOSED METEOROLOGICAL (MET) TOWER
FUTURE ROAD RELINQUISHMENT & PUBLIC ACCESS EASEMENT PER PARCEL MAP 198 TO REMAIN
PROPOSED OVERHEAD OR UNDERGROUND COLLECTION LINE CROSSING
NEW 30' PRIVATE ACCESS EASEMENT PER AVEP SOLAR PROJECT
PUBLIC ACCESS EASEMENT PER PARCEL MAP 8762 TO BE REMAIN
PUBLIC ACCESS EASEMENT PER PARCEL MAP 8762 TO BE VACATED
PROPOSED METEOROLOGICAL (MET) TOWER
APPROVED 230kV SHARED GEN-TIE INTERCONNECTION TO APPROVED NORTH ROSAMOND SOLAR PROJECT SUBSTATION (BY OTHERS)
MATCH LINE SEE AT RIGHT
PROPOSED TEMPORARY CONSTRUCTION STAGING AREA
EXISTING GROUNDWATER WELL
PROPOSED TELECOM TOWER
PROPOSED SITE ACCESS W/ 20 FT. DRIVEWAY
APPROVED 230kV SHARED GEN-TIE INTERCONNECTION TO APPROVED RATTLESNAKE SWITCHYARD (BY OTHERS)
PROPOSED OVERHEAD COLLECTION LINE CROSSING
PROPOSED COLLECTION LINE TO APPROVED WILLOW SPRINGS SOLAR PROJECT SUBSTATION
PROPOSED TEMPORARY WATER LINE TO/AT WILLOW SPRINGS 3 SOLAR EXISTING TEMPORARY WATER LINE
APPROVED 230kV SHARED GEN-TIE EASEMENT (BY OTHERS)
PROPOSED APPROXIMATELY 5 ACRE ENERGY STORAGE SYSTEM OPTIONAL LOCATION
PROPOSED WORK WILL INCLUDE IMPROVEMENT TO APPROVED WILLOW SPRINGS SOLAR PROJECT SUBSTATION ACCESS FOR CHAPARRAL SOLAR TO CONNECT
SEE SHEET 2 FOR WILLOW SPRINGS SOLAR PROJECT SUBSTATION CHAPARRAL FACILITIES
MATCH LINE SEE AT LEFT
110TH STREET WEST
HOLIDAY AVENUE
FUTURE ROAD RELINQUISHMENT TO BE REMOVED FROM WSSP & PUBLIC ACCESS EASEMENT TO BE VACATED
PROPOSED INVERTER(S) & TRANSFORMER(S) (TYPICAL)
FUTURE ROAD RELINQUISHMENT TO BE REMOVED FROM WSSP & PUBLIC ACCESS EASEMENT PER PARCEL MAPS 197 & 198 TO BE VACATED
PROPOSED OVERHEAD OR UNDERGROUND COLLECTION LINE CROSSING
PROPOSED METEOROLOGICAL (MET) TOWER
FUTURE ROAD RELINQUISHMENT TO BE REMOVED FROM WSSP
PUBLIC ACCESS EASEMENT ON WESTERN SIDE OF TENTH STREET WEST TO BE VACATED
TRUMAN ROAD
EXISTING 200' SCE TRANSMISSION LINE
PROPOSED PHOTOVOLTAIC COMBINING SWITCHGEAR (PVCS) OR SECTIONALIZING CABINET
100TH STREET WEST
LADWP PROPERTY
PROPOSED CHAPARRAL SOLAR OVERHEAD OR UNDERGROUND COLLECTION LINE ROUTE A CROSSING
EXISTING 55' ROAD RELINQUISHMENT AND PUBLIC ACCESS EASEMENT PER PARCEL MAP 198
PROPOSED PHOTOVOLTAIC COMBINING SWITCHGEAR (PVCS) OR SECTIONALIZING CABINET
PROPOSED SITE ACCESS W/ 20 FT. DRIVEWAY
ROSAMOND BOULEVARD
PROPOSED APPROXIMATELY 5 ACRE ENERGY STORAGE SYSTEM OPTIONAL LOCATION
PROPOSED CHAPARRAL SOLAR OVERHEAD OR UNDERGROUND COLLECTION LINE ROUTE B CROSSING
EXISTING 55' ROAD RELINQUISHMENT & PUBLIC ACCESS EASEMENT PER PARCEL 198
PROPOSED METEOROLOGICAL (MET) TOWER
PROPOSED OPERATION & MAINTENANCE (O&M) FACILITY (APPROXIMATE LOCATION)
PROPOSED SITE ACCESS W/ 20 FT. DRIVEWAY
ASTORIA AVENUE
PROPOSED 50' CHAPARRAL SOLAR COLLECTION LINES & ACCESS EASEMENT
SECTION 13, T10N, R14W, SBM
SECTION 24, T10N, R14W, SBM
NORTH
1200' 600' 0 1200'
THIS PRINT IS NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED AND SIGNED OFF FOR CONSTRUCTION ABOVE LAST REVISION.
First Solar
FIRST SOLAR, INC.
135 MAIN STREET, 6TH FLOOR
SAN FRANCISCO, CALIFORNIA 94105
PHONE: (415) 935-2500
WWW.FIRSTSOLAR.COM
AVEP SOLAR PROJECT
KERN COUNTY
CALIFORNIA
SHEET TITLE
Figure 2 - Chaparral Solar Site Plan
SHEET 1 OF 2
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PROPOSED TYPICAL COLLECTION SYSTEM/ CABLING
PROPOSED TYPICAL POWER CONVERSION STATION/ INVERTER CONTAINER
PROPOSED APPROXIMATELY 5 ACRES ENERGY STORAGE SYSTEM OPTIONAL LOCATION
(APN 359-234-02)
(APN 359-011-38)
WILLOW SPRINGS SOLAR PROJECT BOUNDARY
PROPOSED CHAPARRAL SOLAR & RABBITBRUSH 30' SHARED TEMPORARY WATER LINE EASEMENT
PROPOSED CHAPARRAL SOLAR 50' COLLECTION LINE & ACCESS EASEMENT
APPROVED WILLOW SPRINGS SOLAR 230 kV GEN-TIE (TO BE SHARED WITH AVEP) (BY OTHERS)
HOLIDAY AVE
EXISTING 30' SCE EASEMENT
PROPOSED TYPICAL BATTERY CONTAINER
STREET CENTERLINE
25' BUILDING SETBACK
110' PUBLIC ROAD RESERVATION
PROPOSED AVEP TEMPORARY CONSTRUCTION LAYDOWN AREA
425'
89'
APPROVED WILLOW SPRINGS 3 BAY (BY OTHERS)
PROPOSED CHAPARRAL SOLAR BAY
APPROVED WILLOW SPRINGS SOLAR BAY (BY OTHERS)
EXISTING FENCE TO REMAIN
110TH STREET W
WILLOW SPRINGS SOLAR PROJECT BOUNDARY
WILLOW SPRINGS 3 50' COLLECTION LINE & ACCESS EASEMENT FOR INTERCONNECTION TO WILLOW SPRINGS SOLAR PROJECT SUBSTATION
LEGEND
WILLOW SPRINGS SOLAR PROJECT SUBSTATION EASEMENT
PROPOSED TEMPORARY CONSTRUCTION LAYDOWN AREA
OTHER PROJECT BOUNDARY
CHAPARRAL SOLAR COLLECTION LINE & ACCESS EASEMENT
CHAPARRAL SOLAR COLLECTION LINE
APPROVED WILLOW SPRINGS SOLAR GEN-TIE
EXISTING EASEMENT/RIGHT-OF-WAY
APPROVED PUBLIC ROAD RESERVATION
STREET CENTERLINE
PARCEL LINE
NORTH
120' 60' 0 120'
First Solar.
FIRST SOLAR, INC.
135 MAIN STREET, 6TH FLOOR
SAN FRANCISCO, CALIFORNIA 94105
PHONE: (415) 935-2500
WWW.FIRSTSOLAR.COM
AVEP SOLAR PROJECT
KERN COUNTY
CALIFORNIA
PROJ. DEVT. ENGR: J. SHIRE
SCALE: 1"=120' @ 11"x17" SHEET
COPYRIGHT BY: FIRST SOLAR, INC.
SHEET TITLE
Figure 2b - Chaparral Solar 10-acre parcel and Willow Springs Solar Project Substation
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SHEET 2 OF 2
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# Appendix A
# Antelope Valley Groundwater Basin
# Court Adjudication

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF LOS ANGELES – CENTRAL DISTRICT

| | |
|---|---|
| ANTELOPE VALLEY GROUNDWATER CASES<br><br>Included Actions:<br>Los Angeles County Waterworks District No. 40 v. Diamond Farming Co., Superior Court of California, County of Los Angeles, Case No. BC 325201;<br><br>Los Angeles County Waterworks District No. 40 v. Diamond Farming Co., Superior Court of California, County of Kern, Case No. S-1500-CV-254-348;<br><br>Wm. Bolthouse Farms, Inc. v. City of Lancaster, Diamond Farming Co. v. City of Lancaster, Diamond Farming Co. v. Palmdale Water Dist., Superior Court of California, County of Riverside, Case Nos. RIC 353 840, RIC 344 436, RIC 344 668<br><br>RICHARD WOOD, on behalf of himself and all other similarly situated v. A.V. Materials, Inc., et al., Superior Court of California, County of Los Angeles, Case No. BC509546 | Judicial Council Coordination Proceeding No. 4408<br><br>CLASS ACTION<br><br>Santa Clara Case No. 1-05-CV-049053<br>Assigned to the Honorable Jack Komar<br><br>~~(PROPOSED)~~ **JUDGMENT** |

The matter came on for trial in multiple phases. A large number of parties representing the majority of groundwater production in the Antelope Valley Area of Adjudication ("Basin") entered into a written stipulation to resolve their claims and requested that the Court enter their [Proposed] Judgment and Physical Solution as part of the final judgment. As to all remaining parties, including those who failed to answer or otherwise appear, the Court heard the testimony of witnesses, considered the evidence, and heard the arguments of counsel. Good cause appearing, the Court finds and orders judgment as follows:

1. The Second Amended Stipulation For Entry of Judgment and Physical Solution among the stated stipulating parties is accepted and approved by the Court.

2. Consistent with the December 23 2015 Statement of Decision ("Decision"), the Court adopts the Proposed Judgment and Physical Solution attached hereto as Exhibit A and incorporated herein by reference, as the Court's own physical solution ("Physical Solution"). The Physical Solution is binding upon all parties.

3. In addition to the terms and provisions of the Physical Solution the Court finds as follows:

   a. Each of the Stipulating Parties to the Physical Solution has the right to pump groundwater from the Antelope Valley Adjudication Area as stated in the Decision and Physical Solution.

   b. The following entities are awarded prescriptive rights from the native safe yield against the Tapia Parties, defaulted parties identified in Exhibit 1 to the Physical Solution, and parties who did not appear at trial identified in Exhibit B attached hereto, in the following amounts:

| | |
|---|---|
| Los Angeles County Waterworks District No. 40 | 17,659.07 AFY |
| Palmdale Water District | 8,297.91 AFY |
| Littlerock Creek Irrigation District | 1,760 AFY |
| Quartz Hill Water District | 1,413 AFY |
| Rosamond Community Services District | 1,461.7 AFY |
| Palm Ranch Irrigation District | 960 AFY |

| | | |
|---|---|---|
| Desert Lake Community Services District | | 318 AFY |
| California Water Service Company | | 655 AFY |
| North Edwards Water District | | 111.67 AFY |

No other parties are subject to these prescriptive rights.

c. Each of the parties referred to in the Decision as Supporting Landowner Parties has the right to pump groundwater from the Antelope Valley Adjudication Area as stated in the Decision and in Paragraph 5.1.10 of the Physical Solution in the following amounts:

| | | |
|---|---|---|
| i. | Desert Breeze MHP, LLC | 18.1 AFY |
| ii. | Milana VII, LLC dba Rosamond Mobile Home Park | 21.7 AFY |
| iii. | Reesdale Mutual Water Company | 23 AFY |
| iv. | Juanita Eyherabide, Eyherabide Land Co., LLC and Eyherabide Sheep Company, collectively | 12 AFY |
| v. | Clan Keith Real Estate Investments, LLC., dba Leisure Lake Mobile Estates | 64 AFY |
| vi. | White Fence Farms Mutual Water Co. No. 3 | 4 AFY |
| vii. | LV Ritter Ranch LLC | 0 AFY |
| viii. | Rotar Enterprises, Inc., Hi-Grade Materials Co., and CJR, a General Partnership | 200 AFY |

d. Each member of the Small Pumper Class can exercise an overlying right pursuant to the Physical Solution. The Judgment Approving Small Pumper Class Action Settlements is attached as Exhibit C ("Small Pumper Class Judgment") and is incorporated herein by reference.

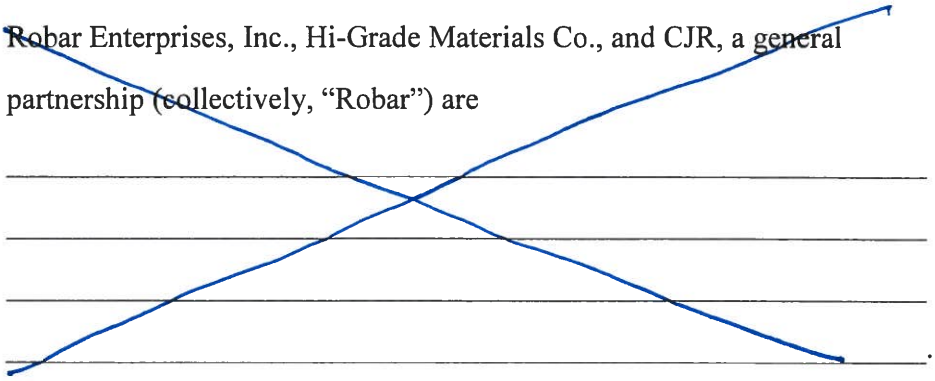
e. Cross-defendant Charles Tapia, as an individual and as Trustee of Nellie Tapia Family Trust (collectively, "The Tapia Parties") has no right to pump groundwater from the Antelope Valley Adjudication Area except under the terms of the Physical Solution.

f. Phelan Piñon Hills Community Services District ("Phelan") has no right to pump groundwater from the Antelope Valley Adjudication Area except under the terms of the Physical Solution.

g. The Willis Class members have an overlying right that is to be exercised in accordance with the Physical Solution.

h. All defendants or cross-defendants who failed to appear in any of these coordinated and consolidated cases are bound by the Physical Solution and their overlying rights, if any, are subject to the prescriptive rights of the Public Water Suppliers. A list of the parties who failed to appear is attached hereto as Exhibit D.

i. Robar Enterprises, Inc., Hi-Grade Materials Co., and CJR, a general partnership (collectively, "Robar") are



.

4. Each party shall designate the name, address and email address, to be used for all subsequent notices and service of process by a designation to be filed within thirty days after entry of this Judgment. The list attached as Exhibit A to the Small Pumper Class Judgment shall be used for notice purposes initially, until updated by the Class members and/or Watermaster. The designation may be changed from time to time by filing a written notice with the Court. Any party desiring to be relieved of receiving notice may file a waiver of notice to be approved by the Court. The Court will maintain a list of parties and their respective addresses to whom notice or service of process is to be sent. If no designation is made as required herein, a party's designee shall be deemed to be the attorney of record or, in the absence of an attorney of record, the party at its specified address.

5. All real property owned by the parties within the Basin is subject to this Judgment. It is binding upon all parties, their officers, agents, employees, successors and assigns. Any party, or executor of a deceased party, who transfers real property that is subject to this Judgment shall notify any transferee thereof of this Judgment.

This Judgment shall not bind the parties that cease to own real property within the Basin, and cease to use groundwater, except to the extent required by the terms of an instrument, contract, or other agreement.

The Clerk shall enter this Judgment.

Dated: Dec 23, 2015

JUDGE OF THE SUPERIOR COURT

# EXHIBIT A

**SUPERIOR COURT OF THE STATE OF CALIFORNIA**

**COUNTY OF LOS ANGELES - CENTRAL DISTRICT**

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| Coordination Proceeding Special Title (Rule 1550(b))<br><br>**ANTELOPE VALLEY GROUNDWATER CASES** | Judicial Council Coordination Proceeding No. 4408<br><br>**Santa Clara Case No.: 1-05-CV-049053**<br><br>Judge: The Honorable Jack Komar, Dept. 17<br><br>[PROPOSED] JUDGMENT AND PHYSICAL SOLUTION |

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**Exhibits:**


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| Exhibit 1: | Listing of Parties Against Which a Default Judgment Has Been Entered. |
| Exhibit 2: | Map of Area Adjudicated in This Action. |
| Exhibit 3: | Non-Overlying Production Rights. |
| Exhibit 4: | Overlying Production Rights |
| Exhibit 5: | Phase 3 Trial Decision. |
| Exhibit 6: | Map of boundaries of Edwards Air Force Base. |
| Exhibit 7: | Map of boundaries of Air Force Plant 42. |
| Exhibit 8: | Rights to Produce Imported Water Return Flows. |
| Exhibit 9: | Map of the Watershed of the Basin. |
| Exhibit 10: | Map of Subareas. |


**Appendices:**


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| Appendix A: | Non-Pumper Class Judgment. |
| Appendix B: | Non-Pumper Class Stipulation of Settlement. |

A number of Parties have agreed and stipulated to entry of a Judgment consistent with the terms of this Judgment and Physical Solution (hereafter "this Judgment"). The stipulations of the Parties are conditioned upon further proceedings that will result in a Judgment binding all Parties to the Action. The Court, having considered the pleadings, the stipulations of the Parties, and the evidence presented, and being fully informed in the matter, approves the Physical Solution[1] contained herein. This Judgment is entered as a Judgment binding on all Parties served or appearing in this Action, including without limitation, those Parties which have stipulated to this Judgment, are subject to prior settlement(s) and judgment(s) of this Court, have defaulted or hereafter stipulate to this Judgment.

## I. DESCRIPTION OF LITIGATION

### 1. PROCEDURAL HISTORY

#### 1.1 Initiation of Litigation.

On October 29, 1999, Diamond Farming Company ("Diamond Farming") filed in the Riverside County Superior Court (Case No. RIC 344436) the first complaint in what would become these consolidated complex proceedings known as the Antelope Valley Groundwater Cases. Diamond Farming's complaint names as defendants the City of Lancaster, Palmdale Water District, Antelope Valley Water Company, Palm Ranch Irrigation District, Quartz Hill Water District, Rosamond Community Services District, and Mojave Public Utility District.

On February 22, 2000, Diamond Farming filed another complaint in the Riverside County Superior Court (Case No. RIC 344468). The two Diamond Farming actions were subsequently consolidated.

On January 25, 2001, Wm. Bolthouse Farms, Inc. ("Bolthouse") filed a complaint in the same Court against the same entities, as well as Littlerock Creek Irrigation District and Los Angeles Waterworks Districts Nos. 37 and 40 (Case No. RIC 353840).

[1] A "physical solution" describes an agreed upon or judicially imposed resolution of conflicting claims in a manner that advances the constitutional rule of reasonable and beneficial use of the state's water supply. (*City of Santa Maria v. Adam* (2012) 211 Cal. App. 4th 266, 288.) It is defined as "an equitable remedy designed to alleviate overdrafts and the consequential depletion of water resources in a particular area, consistent with the constitutional mandate to prevent waste and unreasonable water use and to maximize the beneficial use of this state's limited resource." (*California American Water v. City of Seaside* (2010) 183 Cal. App. 4th 471, 480.)

The Diamond Farming and Bolthouse complaints variously allege that unregulated pumping by these named public agencies (collectively the Public Water Suppliers) has irreparably harmed Diamond Farming and Bolthouse's rights to produce Groundwater from the Antelope Valley Groundwater Basin, and interfered with their rights to put that Groundwater to reasonable and beneficial uses on property they own or lease. Diamond Farming and Bolthouse's complaints seek a determination of their water rights and to quiet title as to the same.

In 2001, the Diamond Farming and Bolthouse actions were consolidated in the Riverside County Superior Court.

In August 2002, a Phase 1 trial commenced in the Riverside County Superior Court in the consolidated Diamond Farming/Bolthouse proceedings for the purpose of determining the geographic boundary of the area to be adjudicated. That Phase 1 trial was not concluded and the Court did not determine any issues or make any factual findings at that time.

**1.2 General Adjudication Commenced.**

In 2004, Los Angeles County Waterworks District No. 40 ("District No. 40") initiated a general Groundwater adjudication for the Antelope Valley Ground Water Basin by filing identical complaints for declaratory and injunctive relief in the Los Angeles and Kern County Superior Courts (Los Angeles County Superior Court Case No. BC 325201 and Kern County Superior Court Case No. S-1500-CV 254348). District No. 40's complaints sought a judicial determination of the respective rights of the Parties to produce Groundwater from the Antelope Valley Groundwater Basin.

On December 30, 2004, District No. 40 petitioned the Judicial Council of California for coordination of the above-referenced actions. On June 17, 2005, the Judicial Council of California granted the petition and assigned the "Antelope Valley Groundwater Cases" (Judicial Council Coordination Proceeding No. 4408) to this Court (Santa Clara County Superior Court Case No. 1-05-CV-049053 (Hon. Jack Komar)).

For procedural purposes, the Court requested that District No. 40 refile its complaint as a first amended cross-complaint in the now coordinated proceedings. Joined by the

other Public Water Suppliers, District No. 40 filed a first amended cross-complaint seeking declaratory and injunctive relief and an adjudication of the rights to all Groundwater within the Antelope Valley Groundwater Basin. The Public Water Suppliers' cross-complaint, as currently amended, requests an adjudication to protect the public's water supply, prevent water quality degradation, and stop land subsidence. Some of the Public Water Suppliers allege they have acquired prescriptive and equitable rights to the Groundwater in the Basin. They allege the Basin has been in overdraft for more than five consecutive Years and they have pumped water from the Basin for reasonable and beneficial purposes in an open, notorious, and continuous manner. They allege each non-public cross-defendant had actual or constructive notice of these activities, sufficient to establish prescriptive rights in their favor. In order to alleviate overdraft conditions and protect the Basin, the Public Water Suppliers also request a physical solution.

**1.3 Other Actions**

In response to the Public Water Suppliers first amended cross-complaint, numerous Parties filed cross-complaints seeking various forms of relief.

On August 30, 2006, Antelope Valley-East Kern Water Agency ("AVEK") filed a cross-complaint seeking declaratory and injunctive relief and claiming overlying rights and rights to pump the supplemental yield attributable to return flows from State Water Project water imported to the Basin.

On January 11, 2007, Rebecca Lee Willis filed a class action complaint in the Los Angeles County Superior Court (Case No. BC 364553) for herself and on behalf of a class of non-pumping overlying property owners ("Non-Pumper Class"), through which she sought declaratory relief and money damages from various public entities. Following certification, the Non-Pumper Class entered into a settlement agreement with the Public Water Suppliers concerning the matters at issue in the class complaint. On September 22, 2011, the Court approved the settlement through an amended final judgment.

On June 2, 2008, Richard A. Wood filed a class action complaint for himself and on behalf of a class of small property owners in this action ("Small Pumper Class"), *Wood v. Los*

*Angeles Co. Waterworks Dist. 40, et al*., (Case No.: BC 391869) through which he sought declaratory relief and money damages from various public entities. The Small Pumper Class was certified on September 2, 2008.

On February 24, 2010, following various orders of coordination, the Court granted the Public Water Suppliers' motion to transfer and consolidate all complaints and cross-complaints in this matter, with the exception of the complaint in Sheldon R. Blum, etc. v. Wm. Bolthouse Farms, Inc. (Santa Clara County Superior Court Case No. 1-05-CV-049053), which remains related and coordinated.

**1.4 McCarran Amendment Issues**

The Public Water Suppliers' cross-complaint names Edwards Air Force Base, California and the United States Department of the Air Force as cross-defendants, seeking the same declaratory and injunctive relief as sought against the other cross-defendants. This Judgment, or any other determination in this case regarding rights to water, is contingent on a Judgment satisfying the requirements of the McCarran Amendment, 43 U.S.C. §666. The United States reserves all rights to object or otherwise challenge any interlocutory judgment and reserves all rights to appeal a Judgment that does not satisfy the requirements of the McCarran Amendment.

**1.5 Phased Trials**

The Court has divided the trial in this matter into multiple phases, four of which have been tried.

Through the Phase 1 trial, the Court determined the geographical boundaries of the area adjudicated in this Action which is defined as the Basin. On November 3, 2006, the Court entered an order determining that issue.

Through the Phase 2 trial, the Court determined that all areas within the Basin are hydrologically connected and a single aquifer, and that there is sufficient hydraulic connection between the disputed areas and the rest of the Basin such that the Court must include the disputed areas within the adjudication area. The Court further determined that it would be premature to make

any determinations regarding, *inter alia*, claims that portions of the Basin should be treated as a separate area for management purposes. On November 6, 2008, the Court entered its Order after Phase Two Trial on Hydrologic Nature of Antelope Valley.

Through the Phase 3 trial, the Court determined the Basin is in a current state of overdraft and the safe yield is 110,000 acre-feet per Year. The Court found the preponderance of the evidence presented established that setting the safe yield at 110,000 acre-feet per Year will permit management of the Basin in such a way as to preserve the rights of the Parties in accordance with the California Constitution and California law. On July 13, 2011, the Court filed its Statement of Decision.

Through the Phase 4 trial, the Court determined the overall Production occurring in the Basin in calendar Years 2011 and 2012.

**1.6 Defaults**

Numerous Parties have failed to respond timely, or at all, to the Public Water Suppliers' cross-complaint, as amended, and their defaults have been entered. The Court has given the defaulted Parties notice of this Judgment and Physical Solution, together with the opportunity to be heard regarding this Judgment, and hereby enters default judgments against all such Parties and incorporates those default judgments into this Judgment. Pursuant to such default judgments a defaulted Party has no right to Produce Groundwater from the Basin. All Parties against which a default judgment has been entered are identified on Exhibit 1, attached hereto and incorporated herein by reference.

**2. GENERAL ADJUDICATION DOES NOT APPLY TO SURFACE WATER.**

Pursuant to California law, surface water use since 1914 has been governed by the Water Code. This Judgment does not apply to surface water as defined in the Water Code and is not intended to interfere with any State permitted or licensed surface water rights or pre-1914 surface water right. The impact of any surface water diversion should be considered as part of the State Water Resources Control Board permitting and licensing process and not as part of this Judgment.

## II. DECREE

### 3. JURISDICTION, PARTIES, DEFINITIONS.

**3.1 Jurisdiction**. This Action is an *inter se* adjudication of all claims to the rights to Produce Groundwater from the Basin alleged between and among all Parties. This Court has jurisdiction over the subject matter and Parties herein to enter a Judgment declaring and adjudicating the rights to reasonable and beneficial use of water by the Parties in the Action pursuant to Article X, section 2 of the California Constitution.

**3.2 Parties**. The Court required that all Persons having or claiming any right, title or interest to the Groundwater within the Basin be notified of the Action. Notice has been given pursuant to the Court's order. All Public Water Suppliers, landowners, Non-Pumper Class and Small Pumper Class members and other Persons having or making claims have been or will be included as Parties to the Action. All named Parties who have not been dismissed have appeared or have been given adequate opportunity to appear.

**3.3 Factual and Legal Issues**. The complaints and cross-complaints in the Action frame many legal issues. The Action includes over 4,000 Parties, as well as the members of the Non-Pumper Class and the members of the Small Pumper Class. The Basin's entire Groundwater supply and Groundwater rights, extending over approximately 1390 square miles, have been brought to issue. The numerous Groundwater rights at issue in the case include, without limitation, overlying, appropriative, prescriptive, and federal reserved water rights to Groundwater, rights to return flows from Imported Water, rights to recycled water, rights to stored Imported Water subject to the Watermaster rules and regulations, and rights to utilize the storage space within the Basin. After several months of trial, the Court made findings regarding Basin characteristics and determined the Basin's Safe Yield. The Court's rulings and judgments in this case, including the Safe Yield determination, form the basis for this Judgment.

**3.4 Need for a Declaration of Rights and Obligations for a Physical Solution**. A Physical Solution for the Basin, based on a declaration of water rights and a formula for allocation of rights and obligations, is necessary to implement the mandate of Article X,

section 2 of the California Constitution and to protect the Basin and the Parties' rights to the Basin's water resources. The Physical Solution governs Groundwater, Imported Water and Basin storage space, and is intended to ensure that the Basin can continue to support existing and future reasonable and beneficial uses. A Physical Solution requires determining individual Groundwater rights for the Public Water Suppliers, landowners, Non-Pumper Class and Small Pumper Class members, and other Parties within the Basin. The Physical Solution set forth in this Judgment: (1) is a fair and reasonable allocation of Groundwater rights in the Basin after giving due consideration to water rights priorities and the mandate of Article X, section 2 of the California Constitution; (2) provides for a reasonable sharing of Imported Water costs; (3) furthers the mandates of the State Constitution and State water policy; and (4) is a remedy that gives due consideration to applicable common law rights and priorities to use Basin water and storage space without substantially impairing such rights. Combined with water conservation, water reclamation, water transfers, water banking, and improved conveyance and distribution methods within the Basin, present and future Imported Water sources are sufficient both in quantity and quality to assure implementation of a Physical Solution. This Judgment will facilitate water resource planning and development by the Public Water Suppliers and individual water users.

**3.5 Definitions**. As used in this Judgment, the following terms shall have the meanings set forth herein:

**3.5.1 Action**. The coordinated and consolidated actions included in the Antelope Valley Groundwater Cases, Judicial Council Coordination Proceeding No. 4408, Santa Clara Superior Court Case No. 1-05-CV-049053.

**3.5.2 Adjusted Native Safe Yield**. The Native Safe Yield minus (1) the Production Right allocated to the Small Pumper Class under Paragraph 5.1.3, (2) the Federal Reserved Water Right under Paragraph 5.1.4, and (3) the State of California Production Right under Paragraph 5.1.5. The Adjusted Native Safe Yield as of the date of entry of this Judgment is 70,686.6 acre-feet per year.

**3.5.3 Administrative Assessment.** The amount charged by the Watermaster for the costs incurred by the Watermaster to administer this Judgment.

**3.5.4 Annual Period.** The calendar Year.

**3.5.5 Antelope Valley United Mutuals Group**. The members of the Antelope Valley United Mutuals Group are Antelope Park Mutual Water Company, Aqua-J Mutual Water Company, Averydale Mutual Water Company, Baxter Mutual Water Company, Bleich Flat Mutual Water Company, Colorado Mutual Water Co., El Dorado Mutual Water Company, Evergreen Mutual Water Company, Land Projects Mutual Water Co., Landale Mutual Water Co., Shadow Acres Mutual Water Company, Sundale Mutual Water Company, Sunnyside Farms Mutual Water Company, Inc., Tierra Bonita Mutual Water Company, West Side Park Mutual Water Co. and White Fence Farms Mutual Water Co., together with the successor(s)-in-interest to any member thereof. Each of the members of the Antelope Valley United Mutuals Group was formed when the owner(s) of the lands that were being developed incorporated the mutual water company and transferred their water rights to the mutual water company in exchange for shares of common stock. The mutual water company owns, operates and maintains the infrastructure for the production, storage, distribution and delivery of water solely to its shareholders. The shareholders of each of these mutual water companies, who are the owners of the real property that is situated within the mutual water company's service area, have the right to have water delivered to their properties, a right appurtenant to their land. [*See, Erwin v. Gage Canal Company* (1964) 226 Cal.App.2d 189].

**3.5.6 AVEK.** The Antelope Valley–East Kern Water Agency.

**3.5.7 Balance Assessment.** The amount of money charged by the Watermaster on all Production Rights, excluding the United States' actual Production, to pay for the costs, not including infrastructure, to purchase, deliver, produce in lieu, or arrange for alternative pumping sources in the Basin.

**3.5.8 Basin.** The area adjudicated in this Action as shown on Exhibit 2, attached hereto and incorporated herein by reference, which lies within the boundaries of the line

labeled "Boundaries of the Adjudicated Area" and described therein. The Basin generally encompasses the Antelope Valley bordered on the West and South by the San Gabriel and Tehachapi Mountains, with the eastern boundary being the Los Angeles-San Bernardino County line, as determined by the Court.

**3.5.9 Carry Over**. The right to Produce an unproduced portion of an annual Production Right or a Right to Imported Water Return Flows in a Year subsequent to the Year in which the Production Right or Right to Imported Water Return Flows was originally available.

**3.5.10 Conjunctive Use.** A method of operation of a groundwater basin under which Imported Water is used or stored in the Basin in Years when it is available; allowing the Basin to refill, and more Groundwater is Produced in Years when Imported Water is less available.

**3.5.11 Defaulting Party.** A Party who failed to file a responsive pleading and against which a default judgment has been entered. A list of Defaulting Parties is attached as Exhibit 1.

**3.5.12 Drought Program.** The water management program in effect only during the Rampdown period affecting the operations and Replacement Water Assessments of the participating Public Water Suppliers.

**3.5.13 Judgment.** A judgment, consistent with Cal.C.C.P. §§ 577 and 1908(a)(1) and 43 U.S.C. § 666, determining all rights to Groundwater in the Basin, establishing a Physical Solution, and resolving all claims in the Action.

**3.5.14 Groundwater.** Water beneath the surface of the ground and within the zone of saturation, excluding water flowing through known and definite channels.

**3.5.15 Imported Water.** Water brought into the Basin from outside the watershed of the Basin as shown in Exhibit 9.

**3.5.16 Imported Water Return Flows.** Imported Water that net augments the Basin Groundwater supply after use.

**3.5.17 In Lieu Production.** The amount of Imported Water used by a Producer in a Year instead of Producing an equal amount of that Producer's Production Right.

**3.5.18 Material Injury**. Material Injury means impacts to the Basin caused by pumping or storage of Groundwater that:

**3.5.18.1** Causes material physical harm to the Basin, any Subarea, or any Producer, Party or Production Right, including, but not limited to, Overdraft, degradation of water quality by introduction of contaminants to the aquifer by a Party and/or transmission of those introduced contaminants through the aquifer, liquefaction, land subsidence and other material physical injury caused by elevated or lowered Groundwater levels. Material physical harm does not include "economic injury" that results from other than direct physical causes, including any adverse effect on water rates, lease rates, or demand for water.

**3.5.18.2** If fully mitigated, Material Injury shall no longer be considered to be occurring.

**3.5.19 Native Safe Yield.** Naturally occurring Groundwater recharge to the Basin, including "return flows" from pumping naturally occurring recharge, on an average annual basis. Imported Water Return Flows are not included in Native Safe Yield.

**3.5.20 New Production.** Any Production of Groundwater from the Basin not of right under this Judgment, as of the date of this Judgment.

**3.5.21 Non-Overlying Production Rights.** The rights held by the Parties identified in Exhibit 3, attached hereto and incorporated herein by reference.

**3.5.22 Non-Pumper Class.** All private (i.e., non-governmental) Persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and did not do so at any time during the five Years preceding January 18, 2006. The Non-Pumper Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such Non-Pumper Class members' land within the Basin. The Non-Pumper Class excludes (1) all Persons to the extent their properties are connected to a municipal water system, public utility, or mutual water company from which they receive water

service, (2) all properties that are listed as "improved" by the Los Angeles County or Kern County Assessor's offices, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties, and (3) those who opted out of the Non-Pumper Class. The Non-Pumper Class does not include landowners who have been individually named under the Public Water Suppliers' cross-complaint, unless such a landowner has opted into such class.

**3.5.23 Non-Pumper Class Judgment.** The amended final Judgment that settled the Non-Pumper Class claims against the Public Water Suppliers approved by the Court on September 22, 2011.

**3.5.24 Non-Stipulating Party.** Any Party who had not executed a Stipulation for Entry of this Judgment prior to the date of approval of this Judgment by the Court.

**3.5.25 Overdraft.** Extractions in excess of the Safe Yield of water from an aquifer, which over time will lead to a depletion of the water supply within a groundwater basin as well as other detrimental effects, if the imbalance between pumping and extraction continues.

**3.5.26 Overlying Production Rights.** The rights held by the Parties identified in Exhibit 4, attached hereto and incorporated herein by reference.

**3.5.27 Party (Parties).** Any Person(s) that has (have) been named and served or otherwise properly joined, or has (have) become subject to this Judgment and any prior judgments of this Court in this Action and all their respective heirs, successors-in-interest and assigns. For purposes of this Judgment, a "Person" includes any natural person, firm, association, organization, joint venture, partnership, business, trust, corporation, or public entity.

**3.5.28 Pre-Rampdown Production**. The reasonable and beneficial use of Groundwater, excluding Imported Water Return Flows, at a time prior to this Judgment, or the Production Right, whichever is greater.

**3.5.29 Produce(d).** To pump Groundwater for existing and future reasonable beneficial uses.

**3.5.30 Producer(s).** A Party who Produces Groundwater.

**3.5.31 Production.** Annual amount of Groundwater Produced, stated in acre-feet of water.

**3.5.32 Production Right.** The amount of Native Safe Yield that may be Produced each Year free of any Replacement Water Assessment and Replacement Obligation. The total of the Production Rights decreed in this Judgment equals the Native Safe Yield. A Production Right does not include any right to Imported Water Return Flows pursuant to Paragraph 5.2.

**3.5.33 Pro-Rata Increase.** The proportionate increase in the amount of a Production Right, as provided in Paragraph 18.5.10, provided the total of all Production Rights does not exceed the Native Safe Yield.

**3.5.34 Pro-Rata Reduction.** The proportionate reduction in the amount of a Production Right, as provided in Paragraph 18.5.10, in order that the total of all Production Rights does not exceed the Native Safe Yield.

**3.5.35 Public Water Suppliers.** The Public Water Suppliers are Los Angeles County Waterworks District No. 40, Palmdale Water District, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, City of Lancaster, Palm Ranch Irrigation District, Rosamond Community Services District, and West Valley County Water District.

**3.5.36 Purpose of Use.** The broad categories of type of water use including but not limited to municipal, irrigation, agricultural and industrial uses.

**3.5.37 Rampdown.** The period of time for Pre-Rampdown Production to be reduced to the Native Safe Yield in the manner described in this Judgment.

**3.5.38 Recycled Water.** Water that, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource.

**3.5.39 Replacement Obligation.** The obligation of a Producer to pay for Replacement Water for Production of Groundwater from the Basin in any Year in excess of the sum of such Producer's Production Right and Imported Water Return Flows.

**3.5.40 Replacement Water.** Water purchased by the Watermaster or otherwise provided to satisfy a Replacement Obligation.

**3.5.41 Replacement Water Assessment.** The amount charged by the Watermaster to pay for all costs incurred by the Watermaster related to Replacement Water.

**3.5.42 Responsible Party.** The Person designated by a Party as the Person responsible for purposes of filing reports and receiving notices pursuant to the provisions of this Judgment.

**3.5.43 Safe Yield.** The amount of annual extractions of water from the Basin over time equal to the amount of water needed to recharge the Groundwater aquifer and maintain it in equilibrium, plus any temporary surplus. [*City of Los Angeles v. City of San Fernando* (1975) 14 Cal. 3d 199, 278.]

**3.5.44 Small Pumper Class.** All private (i.e., non-governmental) Persons and entities that own real property within the Basin, as adjudicated, and that have been pumping less than 25 acre-feet per Year on their property during any Year from 1946 to the present. The Small Pumper Class excludes the defendants in *Wood v. Los Angeles Co. Waterworks Dist. 40, et al.*, any Person, firm, trust, corporation, or other entity in which any such defendants has a controlling interest or which is related to or affiliated with any such defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Small Pumper Class also excludes all Persons and entities that are shareholders in a mutual water company**.** The Small Pumper Class does not include those who opted out of the Small Pumper Class.

**3.5.45 Small Pumper Class Members.** Individual members of the Small Pumper Class who meet the Small Pumper Class definition, and for purposes of this Judgment and any terms pertaining to water rights, where two or more Small Pumper Class Members reside

in the same household, they shall be treated as a single Small Pumper Class Member for purposes of determining water rights.

**3.5.46 State of California.** As used herein, State of California shall mean the State of California acting by and through the following State agencies, departments and associations: (1) The California Department of Water Resources; (2) The California Department of Parks and Recreation; (3) The California Department of Transportation; (4) The California State Lands Commission; (5) The California Department of Corrections and Rehabilitation; (6) The 50th District Agricultural Association; (7) The California Department of Veteran Affairs; (8) The California Highway Patrol; and, (9) The California Department of Military.

**3.5.47 State Water Project.** Water storage and conveyance facilities operated by the State of California Department of Water Resources from which it delivers water diverted from the Feather River and the Sacramento-San Joaquin Delta via the California Aqueduct to public agencies it has contracted with.

**3.5.48 Stipulating Party.** Any Party who has executed a Stipulation for Entry of this Judgment prior to the date of approval of this Judgment by the Court.

**3.5.49 Stored Water.** Water held in storage in the Basin, as a result of direct spreading or other methods, for subsequent withdrawal and use pursuant to agreement with the Watermaster and as provided for in this Judgment. Stored Water does not include Imported Water Return Flows.

**3.5.50 Subareas.** Portions of the Basin, as described in this document, divided for management purposes.

**3.5.51 Total Safe Yield.** The amount of Groundwater that may be safely pumped from the Basin on a long-term basis. Total Safe Yield is the sum of the Native Safe Yield plus the Imported Water Return Flows.

**3.5.52 Watermaster.** The Person(s) appointed by the Court to administer the provisions of this Judgment.

**3.5.53 Watermaster Engineer.** The engineering or hydrology expert or firm retained by the Watermaster to perform engineering and technical analysis and water administration functions as provided for in this Judgment.

**3.5.54 District No. 40.** Los Angeles County Waterworks District No. 40.

**3.5.55 Year**. Calendar year.

## 4. SAFE YIELD AND OVERDRAFT

**4.1 Safe Yield:** The Native Safe Yield of the Basin is 82,300 acre-feet per Year. With the addition of Imported Water Return Flows, the Total Safe Yield is approximately 110,000 acre-feet per Year, but will vary annually depending on the volume of Imported Water.

**4.2 Overdraft:** In its Phase 3 trial decision, the Court held that the Basin, defined by the Court's March 12, 2007 Revised Order After Hearing On Jurisdictional Boundaries, is in a state of overdraft based on estimate of extraction and recharge, corroborated by physical evidence of conditions in the Basin. Reliable estimates of the long-term extractions from the Basin have exceeded reliable estimates of the Basin's recharge by significant margins, and empirical evidence of overdraft in the Basin corroborates that conclusion. Portions of the aquifer have sustained a significant loss of Groundwater storage since 1951. The evidence is persuasive that current extractions exceed recharge and therefore that the Basin is in a state of overdraft. The Court's full Phase 3 trial decision is attached as Exhibit 5 and is incorporated herein by reference.

## 5. PRODUCTION RIGHTS

**5.1 Allocation of Rights to Native Safe Yield.** Consistent with the goals of this Judgment and to maximize reasonable and beneficial use of the Groundwater of the Basin pursuant to Article X, section 2 of the California Constitution, all the Production Rights established by this Judgment are of equal priority, except the Federal Reserved Water Right which is addressed in Paragraph 5.1.4, and with the reservation of the Small Pumper Class Members' right to claim a priority under Water Code section 106.

**5.1.1 Overlying Production Rights**. The Parties listed in Exhibit 4, attached hereto and incorporated herein by reference, have Overlying Production Rights. Exhibit 4 sets forth the following for each Overlying Production Right: (1) the Pre-Rampdown Production; (2) the Production Right; and (3) the percentage of the Production from the Adjusted Native Safe Yield.

**5.1.1.1** The Parties listed on Exhibit 4 have the right to Produce Groundwater, on an annual basis, up to their Overlying Production Right set forth in Exhibit 4 for each Party. Each Party's Overlying Production Right is subject to the following conditions and limitations:

**5.1.1.2** Pursuant to the terms of this Judgment, the Parties listed on Exhibit 4 have the right to Produce their Overlying Production Right for use on land they own or lease and without the need for Watermaster approval.

**5.1.1.3** Overlying Production Rights may be transferred pursuant to the provisions of Paragraph 16 of this Judgment.

**5.1.1.4** Overlying Production Rights are subject to Pro-Rata Reduction or Increase only pursuant to Paragraph 18.5.10.

**5.1.2 Non-Pumper Class Rights.** The Non-Pumper Class members claim the right to Produce Groundwater from the Native Safe Yield for reasonable and beneficial uses on their overlying land as provided for in this Judgment. On September 22, 2011, the Court approved the Non-Pumper Class Stipulation of Settlement through an amended final judgment that settled the Non-Pumper Class' claims against the Public Water Suppliers ("Non-Pumper Class Judgment"). A copy of the Non-Pumper Class Judgment and the Non-Pumper Class Stipulation of Settlement are attached for reference only as Appendices A and B. This Judgment is consistent with the Non-Pumper Class Stipulation of Settlement and Judgment. Future Production by a member of the Non-Pumper Class is addressed in the Physical Solution.

**5.1.2.1** The Non-Pumper Class members shall have no right to transfer water pursuant to this Judgment.

**5.1.3 Small Pumper Class Production Rights.** Subject only to the closure of the Small Pumper Class membership, the Small Pumper Class's aggregate Production Right is 3806.4 acre-feet per Year. Allocation of water to the Small Pumper Class is set at an average Small Pumper Class Member amount of 1.2 acre-feet per existing household or parcel based upon the 3172 known Small Pumper Class Member parcels at the time of this Judgment. Any Small Pumper Class Member may Produce up to and including 3 acre-feet per Year per existing household for reasonable and beneficial use on their overlying land, and such Production will not be subject to Replacement Water Assessment. Production by any Small Pumper Class Member above 3 acre-feet per Year per household or parcel will be subject to Replacement Water Assessment, as set forth in this Judgment. Administrative Assessments for unmetered Production by Small Pumper Class Members shall be set based upon the allocation of 1.2 acre-feet per Year per household or parcel, whichever is the case; metered Production shall be assessed in accord with the actual Production. A Small Pumper Class Member who is lawfully, by permit, operating a shared well with an adjoining Small Pumper Class Member, shall have all of the same rights and obligations under this Judgment without regard to the location of the shared well, and such shared use is not considered a prohibited transfer of a pumping right under Paragraph 5.1.3.3.

**5.1.3.1** The Production of Small Pumper Class Members of up to 3 acre-feet per Year of Groundwater per household or per parcel for reasonable and beneficial use shall only be subject to reduction if: (1) the reduction is based upon a statistically credible study and analysis of the Small Pumper Class' actual Native Safe Yield Production, as well as the nature of the use of such Native Safe Yield, over at least a three Year period; and (2) the reduction is mandated by Court order after notice to the Small Pumper Class Members affording a reasonable opportunity for the Court to hear any Small Pumper Class Member objections to such reduction, including a determination that Water Code section 106 may apply so as to prevent a reduction.

**5.1.3.2** The primary means for monitoring the Small Pumper Class Members' Groundwater use under the Physical Solution will be based on physical inspection by

the Watermaster, including the use of aerial photographs and satellite imagery. All Small Pumper Class Members agree to permit the Watermaster to subpoena the electrical meter records associated with their Groundwater wells on an annual basis. Should the Watermaster develop a reasonable belief that a Small Pumper Class Member household is using in excess of 3 acre-feet per Year, the Watermaster may cause to be installed a meter on such Small Pumper Class Member's well at the Small Pumper Class Member's expense.

**5.1.3.3** The pumping rights of Small Pumper Class Members are not transferable separately from the parcel of property on which the water is pumped, provided however a Small Pumper Class Member may move their water right to another parcel owned by that Small Pumper Class Member with approval of the Court. If a Small Pumper Class Member parcel is sold, absent a written contract stating otherwise and subject to the provisions of this Judgment, the water right for that Small Pumper Class Member parcel shall transfer to the new owners of that Small Pumper Class Member parcel. The pumping rights of Small Pumper Class Members may not be aggregated for use by a purchaser of more than one Small Pumper Class Member's property.

**5.1.3.4** Defaults or default judgments entered against any Small Pumper Class Member who did not opt out of the Small Pumper Class are hereby deemed non-operative and vacated *nunc pro tunc*, but only with respect to their ownership of real property meeting the Small Pumper Class definition.

**5.1.3.5** The Small Pumper Class shall be permanently closed to new membership upon issuance by the Court of its order granting final approval of the Small Pumper Class Settlement (the "Class Closure Date"), after the provision of notice to the Class of the Class Closure Date. Any Person or entity that does not meet the Small Pumper Class definition prior to the Class Closure Date is not a Member of the Small Pumper Class. Similarly, any additional household constructed on a Small Pumper Class Member parcel after the Class Closure Date is not entitled to a Production Right as set forth in Paragraphs 5.1.3 and 5.1.3.1.

**5.1.3.6** Unknown Small Pumper Class Members are defined as: (1) those Persons or entities that are not identified on the list of known Small Pumper Class Members maintained by class counsel and supervised and controlled by the Court as of the Class Closure Date; and (2) any unidentified households existing on a Small Pumper Class Member parcel prior to the Class Closure Date. Within ten (10) Court days of the Class Closure Date, class counsel for the Small Pumper Class shall publish to the Court website and file with the Court a list of the known Small Pumper Class Members.

**5.1.3.7** Given the limited number of additions to the Small Pumper Class during the more than five Years since the initial notice was provided to the Class, the Court finds that the number of potentially unknown Small Pumper Class Members and their associated water use is likely very low, and any Production by unknown Small Pumper Class Members is hereby deemed to be *de minimis* in the context of this Physical Solution and shall not alter the Production Rights decreed in this Judgment. However, whenever the identity of any unknown Small Pumper Class Member becomes known, that Small Pumper Class Member shall be bound by all provisions of this Judgment, including without limitation, the assessment obligations applicable to Small Pumper Class Members.

**5.1.3.8** In recognition of his service as class representative, Richard Wood has a Production Right of up to five 5 acre-feet per Year for reasonable and beneficial use on his parcel free of Replacement Water Assessment. This Production Right shall not be transferable and is otherwise subject to the provisions of this Judgment.

**5.1.4 Federal Reserved Water Right.** The United States has a right to Produce 7,600 acre-feet per Year from the Native Safe Yield as a Federal Reserved Water Right for use for military purposes at Edwards Air Force Base and Air Force Plant 42. *See Cappaert v. United States*, 426 U.S. 128, 138 (1976); *United States v. New Mexico*, 438 U.S. 696, 700 (1978). Maps of the boundaries of Edwards Air Force Base and Plant 42 are attached hereto as Exhibits 6 and 7. The United States may Produce any or all of this water at any time for uses consistent with the purposes of its Federal Reserved Water Right. Water uses at Edwards Air Force Base and

Plant 42 as of the date of this Judgment are consistent with the military purposes of the facilities. The Federal Reserved Water Right to Produce 7,600 acre-feet per Year is not subject to Rampdown or any reduction including Pro-Rata Reduction due to Overdraft.

**5.1.4.1** In the event the United States does not Produce its entire 7,600 acre-feet in any given Year, the unused amount in any Year will be allocated to the Non-Overlying Production Rights holders, except for Boron Community Services District and West Valley County Water District, in the following Year, in proportion to Production Rights set forth in Exhibit 3. This Production of unused Federal Reserved Water Right Production does not increase any Non-Overlying Production Right holder's decreed Non-Overlying Production Right amount or percentage, and does not affect the United States' ability to fully Produce its Federal Reserved Water Right as provided in Paragraph 5.1.4 in any subsequent Year. Upon entry of a judgment confirming its Federal Reserved Water Rights consistent with this Judgment, the United States waives any rights under State law to a correlative share of the Groundwater in the Basin underlying Edwards Air Force Base and Air Force Plant 42.

**5.1.4.2** The United States is not precluded from acquiring State law based Production Rights in excess of its Federal Reserved Water Right through the acquisition of Production Rights in the Basin.

**5.1.5 State of California Production Rights.** The State of California shall have a Production Right of 207 acre-feet per Year from the Native Safe Yield and shall have the additional right to Produce Native Safe Yield as set forth in Paragraphs 5.1.5.3 and 5.1.5.4 below. This Production of Native Safe Yield shall not be subject to Pro-Rata Reduction. Any Production by the State of California above 207 acre-feet per Year that is not Produced pursuant to Paragraphs 5.1.5.3 and 5.1.5.4 below shall be subject to Replacement Assessments. All Production by the State of California shall also be subject to the Administrative Assessment and the Balance Assessment except in emergency situations as provided in Paragraph 5.1.5.4.3 below. Any Production of Native Safe Yield pursuant to Paragraphs 5.1.5.3 and 5.1.5.4 below shall not reduce any other Party's Production Rights pursuant to this Judgment.

**5.1.5.1** The State of California's Production Right in the amount of 207 acre-feet per Year is allocated separately to each of the State agencies, departments, and associations as listed below in Paragraph 5.1.5.2. Notwithstanding the separate allocations, any Production Right, or portion thereof, of one of the State agencies, departments, and associations may be transferred or used by the other State agencies, departments, and associations on parcels within the Basin. This transfer shall be done by agreement between the State agencies, departments, or associations without a Replacement Water Assessment and without the need for Watermaster approval. Prior to the transfer of another State agency, department, or association's Production Right, the State agency, department, or association receiving the ability to use the Production Right shall obtain written consent from the transferor. Further, the State agency, department, or association receiving the Production Right shall notify the Watermaster of the transfer.

**5.1.5.2** The Production Rights are allocated as follows and may be exercised by the following nine (9) State agencies:

**5.1.5.2.1** The California Department of Water Resources-104 acre- feet per Year.

**5.1.5.2.2** The California Department of Parks and Recreation-9 acre-feet per Year.

**5.1.5.2.3** The California Department of Transportation -47 acre-feet per Year.

**5.1.5.2.4** The California State Lands Commission-3 acre-feet per Year

**5.1.5.2.5** The California Department of Corrections and Rehabilitation-3 acre-feet per Year.

**5.1.5.2.6** The 50th District Agricultural Association-32 acre-feet per Year.

**5.1.5.2.7** The California Department of Veteran Affairs-3 acre-feet per Year.

**5.1.5.2.8** The California Highway Patrol -3 acre- feet per Year.

**5.1.5.2.9** The California Department of Military-3 acre-feet per Year.

**5.1.5.3** If at any time, the amount of water supplied to the State of California by District No. 40, AVEK, or Rosamond Community Service District is no longer available or no longer available at reasonable rates to the State of California, the State of California shall have the additional right to Produce Native Safe Yield to meet its reasonable and beneficial needs up to 787 acre-feet per Year, the amount provided by District No. 40, AVEK and Rosamond Community Services District to the State of California in the Year 2013.

**5.1.5.4** The following provisions will also apply to each specific agency listed below:

**5.1.5.4.1** California Department of Corrections & Rehabilitation (CDCR). In addition to its Production Right pursuant to Paragraphs 5.1.5.2.5 and 5.1.5.3, CDCR may also pump Groundwater: (1) to the extent necessary to conduct periodic maintenance of its well pumping equipment; and (2) as a supplementary source of drinking water or as an emergency back-up supply as set forth in Water Code section 55338.

**5.1.5.4.2** California Department of Water Resources (DWR). In addition to its Production pursuant to Paragraphs 5.1.5.2.1 and 5.1.5.3 above, DWR may also pump Native Safe Yield from the area adjacent to and beneath the California Aqueduct and related facilities at a time and in an amount it determines is reasonably necessary to protect the physical integrity of the California Aqueduct and related facilities from high Groundwater. Further, notwithstanding provisions of this Judgment prohibiting the export of Native Safe Yield from the Basin, DWR may place the Native Safe Yield that it pumps for the protection of the California Aqueduct into the California Aqueduct, whether or not such Native Safe Yield is

ultimately returned to the Basin. However, DWR and AVEK shall use their best efforts to enter into an agreement allowing AVEK to recapture the Native Safe Yield DWR puts into the California Aqueduct and return it to the Basin.

**5.1.5.4.3** Department of Military. The Department of Military may Produce additional Groundwater in an amount necessary to protect and promote public health and safety during an event deemed to be an emergency by the Department of Military pursuant to California Government Code sections 8567 and 8571, and California Military and Veterans Code sections 143 and 146. Such Production shall be free from any assessment, including any Administrative, Balance, or Replacement Water Assessment.

**5.1.5.4.4** The California Department of Veterans Affairs. The California Department of Veteran Affairs has begun the expansion and increased occupancy project of the Veterans Home of California – Lancaster facility owned by the State of California by and on behalf of the California Department of Veterans Affairs. The California Department of Veterans Affairs fully expects that it will be able to purchase up to an additional 40 acre-feet per Year for use at this facility from District No. 40.

**5.1.6 Non-Overlying Production Rights**. The Parties listed in Exhibit 3 have Production Rights in the amounts listed in Exhibit 3. Exhibit 3 is attached hereto, and incorporated herein by reference. Non-Overlying Production Rights are subject to Pro-Rata Reduction or Increase only pursuant to Paragraph 18.5.10.

**5.1.7 City of Lancaster.** The City of Lancaster ("Lancaster") can Produce up to 500 acre-feet of Groundwater for reasonable and beneficial uses at its National Soccer Complex. Such production shall only be subject to Administrative Assessment and no other assessments. Lancaster will stop Producing Groundwater and will use Recycled Water supplied from District No. 40, when it becomes available, to meet the reasonable and beneficial water uses of the National Soccer Complex. Lancaster may continue to Produce up to 500 acre-feet of Groundwater until Recycled Water becomes available to serve the reasonable and beneficial water uses of the National Soccer Complex. Nothing in this paragraph shall be

construed as requiring Lancaster to have any responsibility for constructing, or in any way contributing to the cost of, any infrastructure necessary to deliver Recycled Water to the National Soccer Complex.

**5.1.8 Antelope Valley Joint Union High School District.** Antelope Valley Joint Union High School District is a public school entity duly organized and existing under the laws of the State of California. In addition to the amounts allocated to Antelope Valley Joint Union High School District ("AVJUHSD") and pursuant to Exhibit 4, AVJUHSD can additionally produce up to 29 acre-feet of Groundwater for reasonable and beneficial uses on its athletic fields and other public spaces. When recycled water becomes available to Quartz Hill High School (located at 6040 West Avenue L, Quartz Hill, CA 93535) which is a site that is part of AVJUHSD, at a price equal to or less than the lowest cost of any of the following: Replacement Obligation, Replacement Water, or other water that is delivered to AVJUHSD at Quartz Hill High School, AVJUHSD will stop producing the 29 acre-feet of Groundwater allocated to it and use recycled water as a replacement to its 29 acre-feet production. AVJUHSD retains its production rights and allocation pursuant to Exhibit 4 of this Judgment.

**5.1.9 Construction of Solar Power Facilities.** Any Party may Produce Groundwater in excess of its Production Right allocated to it in Exhibit 4 for the purpose of constructing a facility located on land overlying the Basin that will generate, distribute or store solar power through and including December 31, 2016 and shall not be charged a Replacement Water Assessment or incur a Replacement Obligation for such Production in excess of its Production Rights. Any amount of such production in excess of the Production Right through and including December 31, 2016 shall be reasonable to accomplish such construction but shall not exceed 500 acre-feet per Year for all Parties using such water.

**5.1.10 Production Rights Claimed by Non-Stipulating Parties.** Any claim to a right to Produce Groundwater from the Basin by a Non-Stipulating Party shall be subject to procedural or legal objection by any Stipulating Party. Should the Court, after taking evidence, rule that a Non-Stipulating Party has a Production Right, the Non-Stipulating Party

shall be subject to all provisions of this Judgment, including reduction in Production necessary to implement the Physical Solution and the requirements to pay assessments, but shall not be entitled to benefits provided by Stipulation, including but not limited to Carry Over pursuant to Paragraph 15 and Transfers pursuant to Paragraph 16. If the total Production by Non-Stipulating Parties is less than seven percent (7%) of the Native Safe Yield, such Production will be addressed when Native Safe Yield is reviewed pursuant to Paragraph 18.5.9. If the total Production by Non-Stipulating Parties is greater than seven percent (7%) of the Native Safe Yield, the Watermaster shall determine whether Production by Non-Stipulating Parties would cause Material Injury, in which case the Watermaster shall take action to mitigate the Material Injury, including, but not limited to, imposing a Balance Assessment, provided however, that the Watermaster shall not recommend any changes to the allocations under Exhibits 3 and 4 prior to the redetermination of Native Safe Yield pursuant to Paragraph 18.5.9. In all cases, however, whenever the Watermaster re-determines the Native Safe Yield pursuant to Paragraph 18.5.9, the Watermaster shall take action to prevent Native Safe Yield Production from exceeding the Native Safe Yield on a long-term basis.

**5.2 Rights to Imported Water Return Flows.**

**5.2.1 Rights to Imported Water Return Flows.** Return Flows from Imported Water used within the Basin which net augment the Basin Groundwater supply are not a part of the Native Safe Yield. Subject to review pursuant to Paragraph 18.5.11, Imported Water Return Flows from Agricultural Imported Water use are 34% and Imported Water Return Flows from Municipal and Industrial Imported Water use are 39% of the amount of Imported Water used.

**5.2.2 Water Imported Through AVEK**. The right to Produce Imported Water Return Flows from water imported through AVEK belongs exclusively to the Parties identified on Exhibit 8, attached hereto, and incorporated herein by reference. Each Party shown on Exhibit 8 shall have a right to Produce an amount of Imported Water Return Flows in any Year equal to the applicable percentage multiplied by the average amount of Imported Water used

by that Party within the Basin in the preceding five Year period (not including Imported Stored Water in the Basin). Any Party that uses Imported Water on lands outside the Basin but within the watershed of the Basin shall be entitled to Produce Imported Water Return Flows to the extent such Party establishes to the satisfaction of the Watermaster the amount that its Imported Water Return Flows augment the Basin Groundwater supply. This right shall be in addition to that Party's Overlying or Non-Overlying Production Right. Production of Imported Water Return Flows is not subject to the Replacement Water Assessment. All Imported Water Return Flows from water imported through AVEK and not allocated to Parties identified in Exhibit 8 belong exclusively to AVEK, unless otherwise agreed by AVEK. Notwithstanding the foregoing, Boron Community Services District shall have the right to Produce Imported Water Return Flows, up to 78 acre-feet annually, based on the applicable percentage multiplied by the average amount of Imported Water used by Boron Community Services District outside the Basin, but within its service area in the preceding five Year period (not including Imported Stored Water in the Basin) without having to establish that the Imported Water Return Flows augment the Basin Groundwater supply.

**5.2.3 Water Not Imported Through AVEK**. After entry of this Judgment, a Party other than AVEK that brings Imported Water into the Basin from a source other than AVEK shall notify the Watermaster each Year quantifying the amount and uses of the Imported Water in the prior Year. The Party bringing such Imported Water into the Basin shall have a right to Produce an amount of Imported Water Return Flows in any Year equal to the applicable percentage set forth above multiplied by the average annual amount of Imported Water used by that Party within the Basin in the preceding five Year period (not including Imported Stored Water in the Basin).

**5.3 Rights to Recycled Water.** The owner of a waste water treatment plant operated for the purpose of treating wastes from a sanitary sewer system shall hold the exclusive right to the Recycled Water as against anyone who has supplied the water discharged into the waste water collection and treatment system. At the time of this Judgment those Parties that

produce Recycled Water are Los Angeles County Sanitation Districts No. 14 and No. 20, Rosamond Community Services District, and Edwards Air Force Base. Nothing in this Judgment affects or impairs this ownership or any existing or future agreements for the use of Recycled Water within the Basin.

## 6. INJUNCTION

**6.1 Injunction Against Unauthorized Production**. Each and every Party, its officers, directors, agents, employees, successors, and assigns, except for the United States, is ENJOINED AND RESTRAINED from Producing Groundwater from the Basin except pursuant to this Judgment. Without waiving or foreclosing any arguments or defenses it might have, the United States agrees that nothing herein prevents or precludes the Watermaster or any Party from seeking to enjoin the United States from Producing water in excess of its 7,600 acre-foot per Year Reserved Water Right if and to the extent the United States has not paid the Replacement Assessments for such excess Production or entered into written consent to the imposition of Replacement Assessments as described in Paragraph 9.2.

**6.2 Injunction Re Change in Purpose of Use Without Notice to The Watermaster.** Each and every Party, its officers, directors, agents, employees, successors, and assigns, is ENJOINED AND RESTRAINED from changing its Purpose of Use of Groundwater at any time without notifying the Watermaster.

**6.3 Injunction Against Unauthorized Capture of Stored Water.** Each and every Party, its officers, directors, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from claiming any right to Produce the Stored Water that has been recharged in the Basin, except pursuant to a Storage Agreement with the Watermaster, and as allowed by this Judgment, or pursuant to water banking operations in existence and operating at the time of this Judgment as identified in Paragraph 14. This Paragraph does not prohibit Parties from importing water into the Basin for direct use, or from Producing or using Imported Water Return Flows owned by such Parties pursuant to Paragraph 5.2.

**6.4 Injunction Against Transportation From Basin.** Except upon further order of the Court, each and every Party, its officers, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from transporting Groundwater hereafter Produced from the Basin to areas outside the Basin except as provided for by the following. The United States may transport water Produced pursuant to its Federal Reserved Water Right to any portion of Edwards Air Force Base, whether or not the location of use is within the Basin. This injunction does not prevent Saint Andrew's Abbey, Inc., U.S. Borax and Tejon Ranchcorp/Tejon Ranch Company from conducting business operations on lands both inside and outside the Basin boundary, and transporting Groundwater Produced consistent with this Judgment for those operations and for use on those lands outside the Basin and within the watershed of the Basin as shown in Exhibit 9. This injunction also does not apply to any California Aqueduct protection dewatering Produced by the California Department of Water Resources. This injunction does not apply to the recovery and use of stored Imported Water by any Party that stores Imported Water in the Basin pursuant to Paragraph 14 of this Judgment.

**6.4.1 Export by Boron and Phelan Piñon Hills Community Services Districts.**

**6.4.1.1** The injunction does not prevent Boron Community Services District from transporting Groundwater Produced consistent with this Judgment for use outside the Basin, provided such water is delivered within its service area.

**6.4.1.2** The injunction does not apply to any Groundwater Produced within the Basin by Phelan Piñon Hills Community Services District and delivered to its service areas, so long as the total Production does not exceed 1,200 acre-feet per Year, such water is available for Production without causing Material Injury, and the District pays a Replacement Water Assessment pursuant to Paragraph 9.2, together with any other costs deemed necessary to protect Production Rights decreed herein, on all water Produced and exported in this manner.

**6.5 Continuing Jurisdiction.** The Court retains and reserves full jurisdiction, power and authority for the purpose of enabling the Court, upon a motion of a Party or Parties

noticed in accordance with the notice procedures of Paragraph 20.6 hereof, to make such further or supplemental order or directions as may be necessary or appropriate to interpret, enforce, administer or carry out this Judgment and to provide for such other matters as are not contemplated by this Judgment and which might occur in the future, and which if not provided for would defeat the purpose of this Judgment.

## III. PHYSICAL SOLUTION

### 7. GENERAL

**7.1 Purpose and Objective.** The Court finds that the Physical Solution incorporated as part of this Judgment: (1) is a fair and equitable basis for satisfaction of all water rights in the Basin; (2) is in furtherance of the State Constitution mandate and the State water policy; and (3) takes into account water rights priorities, applicable public trust interests and the Federal Reserved Water Right. The Court finds that the Physical Solution establishes a legal and practical means for making the maximum reasonable and beneficial use of the waters of the Basin by providing for the long-term Conjunctive Use of all available water in order to meet the reasonable and beneficial use requirements of water users in the Basin. Therefore, the Court adopts, and orders the Parties to comply with this Physical Solution.

**7.2 Need For Flexibility.** This Physical Solution must provide flexibility and adaptability to allow the Court to use existing and future technological, social, institutional, and economic options in order to maximize reasonable and beneficial water use in the Basin.

**7.3 General Pattern of Operations.** A fundamental premise of the Physical Solution is that all Parties may Produce sufficient water to meet their reasonable and beneficial use requirements in accordance with the terms of this Judgment. To the extent that Production by a Producer exceeds such Producer's right to Produce a portion of the Total Safe Yield as provided in this Judgment, the Producer will pay a Replacement Water Assessment to the Watermaster and the Watermaster will provide Replacement Water to replace such excess production according to the methods set forth in this Judgment.

**7.4 Water Rights.** A Physical Solution for the Basin based upon a declaration of water rights and a formula for allocation of rights and obligations is necessary to implement the mandate of Article X, section 2 of the California Constitution. The Physical Solution requires quantifying the Producers' rights within the Basin in a manner which will reasonably allocate the Native Safe Yield and Imported Water Return Flows and which will provide for sharing Imported Water costs. Imported Water sources are or will be available in amounts which, when combined with water conservation, water reclamation, water transfers, and improved conveyance and distribution methods within the Basin, will be sufficient in quantity and quality to assure implementation of the Physical Solution. Sufficient information and data exists to allocate existing water supplies, taking into account water rights priorities, within the Basin and as among the water users. The Physical Solution provides for delivery and equitable distribution of Imported Water to the Basin.

## 8. RAMPDOWN

**8.1 Installation of Meters.** Within two (2) Years from the entry of this Judgment all Parties other than the Small Pumper Class shall install meters on their wells for monitoring Production. Each Party shall bear the cost of installing its meter(s). Monitoring or metering of Production by the Small Pumper Class shall be at the discretion of the Watermaster, subject to the provisions of Paragraph 5.1.3.2.

**8.2 Rampdown Period.** The "Rampdown Period" is seven Years beginning on the January 1 following entry of this Judgment and continuing for the following seven (7) Years.

**8.3 Reduction of Production During Rampdown.** During the first two Years of the Rampdown Period no Producer will be subject to a Replacement Water Assessment. During Years three through seven of the Rampdown Period, the amount that each Party may Produce from the Native Safe Yield will be progressively reduced, as necessary, in equal annual increments, from its Pre-Rampdown Production to its Production Right. Except as is determined to be exempt during the Rampdown period pursuant to the Drought Program provided for in

Paragraph 8.4, any amount Produced over the required reduction shall be subject to Replacement Water Assessment. The Federal Reserved Water Right is not subject to Rampdown.

**8.4 Drought Program During Rampdown for Participating Public Water Suppliers.** During the Rampdown period a drought water management program ("Drought Program") will be implemented by District No. 40, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, and Palm Ranch Irrigation District, (collectively, "Drought Program Participants"), as follows:

**8.4.1** During the Rampdown period, District No. 40 agrees to purchase from AVEK each Year at an amount equal to 70 percent of District No. 40's total annual demand if that amount is available from AVEK at no more than the then current AVEK treated water rate. If that amount is not available from AVEK, District No. 40 will purchase as much water as AVEK makes available to District No. 40 at no more than the then current AVEK treated water rate. Under no circumstances will District No. 40 be obligated to purchase more than 50,000 acre-feet of water annually from AVEK. Nothing in this Paragraph affects AVEK's water allocation procedures as established by its Board of Directors and AVEK's Act.

**8.4.2** During the Rampdown period, the Drought Program Participants each agree that, in order to minimize the amount of excess Groundwater Production in the Basin, they will use all water made available by AVEK at no more than the then current AVEK treated water rate in any Year in which they Produce Groundwater in excess of their respective rights to Produce Groundwater under this Judgment. During the Rampdown period, no Production by a Drought Program Participant shall be considered excess Groundwater Production exempt from a Replacement Water Assessment under this Drought Program unless a Drought Program Participant has utilized all water supplies available to it including its Production Right to Native Safe Yield, Return Flow rights, unused Production allocation of the Federal Reserved Water Rights, Imported Water, and Production rights previously transferred from another party. Likewise, no Production by a Drought Program Participant will be considered excess

Groundwater Production exempt from a Replacement Water Assessment under this Drought Program in any Year in which the Drought Program Participant has placed water from such sources described in this Paragraph 8.4.2 into storage or has transferred such water to another Person or entity.

**8.4.3** During the Rampdown period, the Drought Program Participants will be exempt from the requirement to pay a Replacement Water Assessment for Groundwater Production in excess of their respective rights to Produce Groundwater under this Judgment up to a total of 40,000 acre-feet over the Rampdown Period with a maximum of 20,000 acre-feet in any single Year for District No. 40 and a total of 5,000 acre-feet over the Rampdown Period for all other Drought Program Participants combined. During any Year that excess Groundwater is produced under this Drought Program, all Groundwater Production by the Drought Program Participants will be for the purpose of a direct delivery to customers served within their respective service areas and will not be transferred to other users within the Basin.

**8.4.4** Notwithstanding the foregoing, the Drought Program Participants remain subject to the Material Injury limitation as provided in this Judgment.

**8.4.5** Notwithstanding the foregoing, the Drought Program Participants remain subject to a Balance Assessment as provided in Paragraph 9.3 of this Judgment.

## 9. ASSESSMENTS.

**9.1 Administrative Assessment.** Administrative Assessments to fund the Administrative Budget adopted by the Watermaster shall be levied uniformly on an annual basis against (1) each acre foot of a Party's Production Right as described in Paragraph 5.1, (2) each acre foot of a Party's right to Produce Imported Water Return Flows as determined pursuant to Paragraph 5.2, (3) each acre foot of a Party's Production for which a Replacement Water Assessment has been imposed pursuant to Paragraph 9.2, and (4) during the Rampdown, each acre foot of a Party's Production in excess of (1)-(3), above, excluding Production from Stored Water and/or Carry Over water, except that the United States shall be subject to the Administrative Assessment only on the actual Production of the United States. During the

Rampdown the Administrative Assessment shall be no more than five (5) dollars per acre foot, or as ordered by the Court upon petition of the Watermaster. Non-Overlying Production Rights holders using the unused Production allocation of the Federal Reserved Water Right shall be subject to Administrative Assessments on water the Non-Overlying Production Rights holders Produce pursuant to Paragraph 5.1.4.1.

**9.2 Replacement Water Assessment.** In order to ensure that each Party may fully exercise its Production Right, there will be a Replacement Water Assessment. Except as is determined to be exempt during the Rampdown period pursuant to the Drought Program provided for in Paragraph 8.4, the Watermaster shall impose the Replacement Water Assessment on any Producer whose Production of Groundwater from the Basin in any Year is in excess of the sum of such Producer's Production Right and Imported Water Return Flow available in that Year, provided that no Replacement Water Assessment shall be imposed on the United States except upon the United States' written consent to such imposition based on the appropriation by Congress, and the apportionment by the Office of Management and Budget, of funds that are available for the purpose of, and sufficient for, paying the United States' Replacement Water Assessment. The Replacement Water Assessment shall not be imposed on the Production of Stored Water, In-Lieu Production or Production of Imported Water Return Flows. The amount of the Replacement Water Assessment shall be the amount of such excess Production multiplied by the cost to the Watermaster of Replacement Water, including any Watermaster spreading costs. All Replacement Water Assessments collected by the Watermaster shall be used to acquire Imported Water from AVEK, Littlerock Creek Irrigation District, Palmdale Water District, or other entities. AVEK shall use its best efforts to acquire as much Imported Water as possible in a timely manner. If the Watermaster encounters delays in acquiring Imported Water which, due to cost increases, results in collected assessment proceeds being insufficient to purchase all Imported Water for which the Assessments were made, the Watermaster shall purchase as much water as the proceeds will allow when the water becomes available. If available Imported Water is insufficient to fully meet the Replacement Water obligations under contracts, the Watermaster

shall allocate the Imported Water for delivery to areas on an equitable and practicable basis pursuant to the Watermaster rules and regulations.

**9.2.1** The Non-Pumper Class Stipulation of Settlement, executed by its signatories and approved by the Court in the Non-Pumper Class Judgment, specifically provides for imposition of a Replacement Water Assessment on Non-Pumper Class members. This Judgment is consistent with the Non-Pumper Class Stipulation of Settlement and Judgment. The Non-Pumper Class members specifically agreed to pay a replacement assessment if that member produced "more than its annual share" of the Native Safe Yield less the amount of the Federal Reserved Right. (See Appendix B at paragraph V., section D. Replacement Water.) In approving the Non-Pumper Class Stipulation of Settlement this Court specifically held in its Order after Hearing dated November 18, 2010, that "the court determination of physical solution cannot be limited by the Class Settlement." The Court also held that the Non-Pumper Class Stipulation of Settlement "may not affect parties who are not parties to the settlement."

**9.2.2** Evidence presented to the Court demonstrates that Production by one or more Public Water Suppliers satisfies the elements of prescription and that Production by overlying landowners during portion(s) of the prescriptive period exceeded the Native Safe Yield. At the time of this Judgment the entire Native Safe Yield is being applied to reasonable and beneficial uses in the Basin. Members of the Non-Pumper Class do not and have never Produced Groundwater for reasonable beneficial use as of the date of this Judgment. Pursuant to *Pasadena v. Alhambra* (1949) 33 Cal 2d 908, 931-32 and other applicable law, the failure of the Non-Pumper Class members to Produce any Groundwater under the facts here modifies their rights to Produce Groundwater except as provided in this Judgment. Because this is a comprehensive adjudication pursuant to the McCarran Amendment, consistent with the California Supreme Court decisions, including *In Re Waters of Long Valley Creek Stream System* (1979) 25 Cal. 3d 339, this Court makes the following findings: (1) certainty fosters reasonable and beneficial use of water and is called for by the mandate of Article X, section 2; (2) because of this mandate for certainty and in furtherance of the Physical Solution, any New Production, including that by a

member of the Non-Pumper Class must comply with the New Production Application Procedure specified in Paragraph 18.5.13; (3) as of this Judgment no member of the Non-Pumper Class has established a Production Right to the reasonable and beneficial use of Groundwater based on their unexercised claim of right to Produce Groundwater; (4) if in the future a member of the Non-Pumper Class proposes to Produce Groundwater for reasonable and beneficial use, the Watermaster as part of the New Production Application Procedure, has the authority to determine whether such a member has established that the proposed New Production is a reasonable and beneficial use in the context of other existing uses of Groundwater and then-current Basin conditions; and (5) the Watermaster's determinations as to the approval, scope, nature and priority of any New Production is reasonably necessary to the promotion of the State's interest in fostering the most reasonable and beneficial use of its scarce water resources. All provisions of this Judgment regarding the administration, use and enforcement of the Replacement Water Assessment shall apply to each Non-Pumper Class member that Produces Groundwater. Prior to the commencement of Production, each Producing Non-Pumper Class member shall install a meter and report Production to the Watermaster. The Court finds that this Judgment is consistent with the Non-Pumper Stipulation of Settlement and Judgment.

**9.3 Balance Assessment.** In order to ensure that after Rampdown each Party may fully exercise its Production Right, there may be a Balance Assessment imposed by the Watermaster. The Balance Assessment shall be assessed on all Production Rights, excluding the United States' actual Production, but including that portion of the Federal Reserved Right Produced by other Parties, in an amount determined by the Watermaster. A Balance Assessment may not be imposed until after the end of the Rampdown. In determining whether to adopt a Balance Assessment, and in what amount, the Watermaster Engineer shall consider current Basin conditions as well as then-current pumping existing after Rampdown exclusive of any consideration of an effect on then-current Basin conditions relating to Production of Groundwater pursuant to the Drought Program which occurred during the Rampdown, and shall only assess a

Balance Assessment or curtail a Party's Production under section 9.3.4 below, to avoid or mitigate Material Injury that is caused by Production after the completion of the Rampdown.

**9.3.1** Any proceeds of the Balance Assessment will be used to purchase, deliver, produce in lieu, or arrange for alternative pumping sources of water in the Basin, but shall not include infrastructure costs.

**9.3.2** The Watermaster Engineer shall determine and collect from any Party receiving direct benefit of the Balance Assessment proceeds an amount equal to that Party's avoided Production costs.

**9.3.3** The Balance Assessment shall not be used to benefit the United States unless the United States participates in paying the Balance Assessment.

**9.3.4** The Watermaster Engineer may curtail the exercise of a Party's Production Right under this Judgment, except the United States' Production, if it is determined necessary to avoid or mitigate a Material Injury to the Basin and provided that the Watermaster provides an equivalent quantity of water to such Party as a substitute water supply, with such water paid for from the Balance Assessment proceeds.

**10. SUBAREAS.** Subject to modification by the Watermaster the following Subareas are recognized:

**10.1 Central Antelope Valley Subarea**. The Central Antelope Valley Subarea is the largest of the five Subareas and underlies Rosamond, Quartz Hill, Lancaster, Edwards AFB and much of Palmdale. This Subarea also contains the largest amount of remaining agricultural land use in the Basin. The distinctive geological features of the Central Antelope Valley Subarea are the presence of surficial playa and pluvial lake deposits; the widespread occurrence of thick, older pluvial lake bed deposits; and alluvial deposits from which Groundwater is produced above and below the lake bed deposits. The Central Antelope Valley Subarea is defined to be east of the largely buried ridge of older granitic and tertiary rocks exposed at Antelope Buttes and extending beyond Little Buttes and Tropico Hill. The Central Subarea is defined to be southwest and

northeast of the extension of the Buttes Fault, and northwest of an unnamed fault historically identified from Groundwater level differences, as shown on Exhibit 10.

**10.2** **West Antelope Valley Subarea**. The West Antelope Valley Subarea is the second largest subarea. The area is characterized by a lack of surficial lake bed deposits, and little evidence of widespread subsurface lake beds, and thick alluvial deposits. The Western Antelope Valley Subarea is defined to be south of the Willow Springs-Cottonwood Fault and west of a largely buried ridge of older granitic and tertiary rocks that are exposed at Antelope Buttes and Little Buttes, and continue to Tropico Hill, as shown on Exhibit 10.

**10.3** **South East Subarea**. The South East Subarea is characterized by granitic buttes to the north, shallow granitic rocks in the southwest, and a lack of lake bed deposits. The South East Subarea is defined to encompass the remainder of the Basin from the unnamed fault between the Central and South East subareas, to the county-line boundary of the Basin. Notably, this area contains Littlerock and Big Rock creeks that emanate from the mountains to the south and discharge onto the valley floor.

**10.4** **Willow Springs Subarea.** The Willow Springs Subarea is separated from the West Antelope Subarea primarily because the Willow Springs fault shows some signs of recent movement and there is substantial Groundwater hydraulic separation between the two adjacent areas, suggesting that the fault significantly impedes Groundwater flow from the Willow Springs to the lower West Antelope Subarea. Otherwise, the Willow Springs Subarea is comparable in land use to the West Antelope Subarea, with some limited agricultural land use and no municipal development, as shown on Exhibit 10.

**10.5** **Rogers Lake Subarea**. The Rogers Lake Subarea is characterized by surficial pluvial Lake Thompson and playa deposits, and a narrow, fault-bound, central trough filled with alluvial deposits. The area is divided into north and south subareas on opposite sides of a buried ridge of granite rock in the north lake, as shown on Exhibit 10.

**11. INCREASE IN PRODUCTION BY THE UNITED STATES.**

**11.1 Notice of Increase of Production Under Federal Reserved Water Right.** After the date of entry of this Judgment, the United States shall provide the Watermaster with at least ninety (90) days advanced notice if Production by the United States is reasonably anticipated to increase more than 200 acre-feet per Year in a following 12 month period.

**11.2 Water Substitution to Reduce Production by United States**. The United States agrees that maximizing Imported Water is essential to improving the Basin's health and agrees that its increased demand can be met by either increasing its Production or by accepting deliveries of Imported Water of sufficient quality to meet the purpose of its Federal Reserved Water Right under the conditions provided for herein. Any Party may propose a water substitution or replacement to the United States to secure a reduction in Groundwater Production by the United States. Such an arrangement would be at the United States' sole discretion and subject to applicable federal law, regulations and other requirements. If such a substitution or replacement arrangement is agreed upon, the United States shall reduce Production by the amount of Replacement Water provided to it, and the Party providing such substitution or replacement of water to the United States may Produce a corresponding amount of Native Safe Yield free from Replacement Water Assessment in addition to their Production Right.

**12. MOVEMENT OF PUBLIC WATER SUPPLIERS PRODUCTION FACILITIES.**

**12.1 No Requirement to Move Public Water Suppliers' Production Wells**. One or more of the Public Water Suppliers intend to seek Federal or State legislation to pay for all costs related to moving the Public Water Suppliers Production wells to areas that will reduce the impact of Public Water Supplier Production on the United States' current Production wells. The Public Water Suppliers shall have no responsibility to move any Production wells until Federal or State legislation fully funding the costs of moving the wells is effective or until required to do so by order of this Court which order shall not be considered or made by this Court until the seventeenth (17th) Year after entry of this Judgment. The Court may only make such an order if it finds that the Public Water Supplier Production from those wells is causing Material

Injury. The Court shall not impose the cost of moving the Public Water Supplier Production Facilities on any non-Public Water Supplier Party to this Judgment.

**13. FEDERAL APPROVAL.** This Judgment is contingent on final approval by the Department of Justice. Such approval will be sought upon final agreement of the terms of this Judgment by the settling Parties. Nothing in this Judgment shall be interpreted or construed as a commitment or requirement that the United States obligate or pay funds in contravention of the Anti-Deficiency Act, 31 U.S.C. § 1341, or any other applicable provision of law. Nothing in this Judgment, specifically including Paragraphs 9.1, 9.2 and 9.3, shall be construed to deprive any federal official of the authority to revise, amend, or promulgate regulations. Nothing in this Judgment shall be deemed to limit the authority of the executive branch to make recommendations to Congress on any particular piece of legislation. Nothing in this Judgment shall be construed to commit a federal official to expend federal funds not appropriated by Congress. To the extent that the expenditure or advance of any money or the performance of any obligation of the United States under this Judgment is to be funded by appropriation of funds by Congress, the expenditure, advance, or performance shall be contingent upon the appropriation of funds by Congress that are available for this purpose and the apportionment of such funds by the Office of Management and Budget and certification by the appropriate Air Force official that funding is available for this purpose, and an affirmative obligation of the funds for payment made by the appropriate Air Force official. No breach of this Judgment shall result and no liability shall accrue to the United States in the event such funds are not appropriated or apportioned.

**14. STORAGE.** All Parties shall have the right to store water in the Basin pursuant to a Storage Agreement with the Watermaster. If Littlerock Creek Irrigation District or Palmdale Water District stores Imported Water in the Basin it shall not export from its service area that Stored Water. AVEK, Littlerock Creek Irrigation District or Palmdale Water District may enter into exchanges of their State Water Project "Table A" Amounts. Nothing in this Judgment limits or modifies operation of preexisting banking projects (including AVEK, District No. 40, Antelope Valley Water Storage LLC, Tejon Ranchcorp and Tejon Ranch Company, Sheep Creek Water

Co., Rosamond Community Services District and Palmdale Water District) or performance of preexisting exchange agreements of the Parties. The Watermaster shall promptly enter into Storage Agreements with the Parties at their request. The Watermaster shall not enter into Storage Agreements with non-Parties unless such non-Parties become expressly subject to the provisions of this Judgment and the jurisdiction of the Court. Storage Agreements shall expressly preclude operations which will cause a Material Injury on any Producer. If, pursuant to a Storage Agreement, a Party has provided for pre-delivery or post-delivery of Replacement Water for the Party's use, the Watermaster shall credit such water to the Party's Replacement Water Obligation at the Party's request. Any Stored Water that originated as State Water Project water imported by AVEK, Palmdale Water District or Littlerock Creek Irrigation District may be exported from the Basin for use in a portion of the service area of any city or public agency, including State Water Project Contractors, that are Parties to this action at the time of this Judgment and whose service area includes land outside the Basin. AVEK may export any of its Stored State Project Water to any area outside its jurisdictional boundaries and the Basin provided that all water demands within AVEK's jurisdictional boundaries are met. Any Stored Water that originated as other Imported Water may be exported from the Basin, subject to a requirement that the Watermaster make a technical determination of the percentage of the Stored Water that is unrecoverable and that such unrecoverable Stored Water is dedicated to the Basin.

**15. CARRY OVER**

**15.1 In Lieu Production Right Carry Over**. Any Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 can utilize In Lieu Production by purchasing Imported Water and foregoing Production of a corresponding amount of the annual Production of Native Safe Yield provided for in Paragraph 5 herein. In Lieu Production must result in a net reduction of annual Production from the Native Safe Yield in order to be entitled to the corresponding Carry Over benefits under this paragraph. In Lieu Production does not make additional water from the Native Safe Yield available to any other Producer. If a Producer foregoes pumping and uses Imported Water In Lieu of Production, the Producer may Carry Over its right to the unproduced portion of

its Production Right for up to ten (10) Years. A Producer must Produce its full current Year's Production Right before any Carry Over water is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

**15.2 Imported Water Return Flow Carry Over.** If a Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 fails to Produce its full amount of Imported Water Return Flows in the Year following the Year in which the Imported Water was brought into the Basin, the Producer may Carry Over its right to the unproduced portion of its Imported Water Return Flows for up to ten (10) Years. A Producer must Produce its full Production Right before any Carry Over water, or any other water, is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

**15.3 Production Right Carry Over.** If a Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 fails to Produce its full Production Right in any Year, the Producer may Carry Over its right to the unproduced portion of its Production Right for up to ten (10) Years. A

Producer must Produce its full Production Right before any Carry Over water, or any other water, is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

**16. TRANSFERS.**

**16.1 When Transfers are Permitted**. Pursuant to terms and conditions to be set forth in the Watermaster rules and regulations, and except as otherwise provided in this Judgment, Parties may transfer all or any portion of their Production Right to another Party so long as such transfer does not cause Material Injury. All transfers are subject to hydrologic review by the Watermaster Engineer.

**16.2 Transfers to Non-Overlying Production Right Holders.** Overlying Production Rights that are transferred to Non-Overlying Production Right holders shall remain on Exhibit 4 and be subject to adjustment as provided in Paragraph 18.5.10, but may be used anywhere in the transferee's service area.

**16.3 Limitation on Transfers of Water by Antelope Valley United Mutuals Group.** After the date of this Judgment, any Overlying Production Rights pursuant to Paragraph 5.1.1, rights to Imported Water Return Flows pursuant to Paragraph 5.2, rights to Recycled Water pursuant to Paragraph 5.3 and Carry Over water pursuant to Paragraph 15 (including any water banked pursuant to a Storage Agreement with the Watermaster) that are at any time held by any member of the Antelope Valley United Mutuals Group may only be transferred to or amongst other members of the Antelope Valley United Mutuals Group, except as provided in Paragraph

16.3.1. Transfers amongst members of the Antelope Valley United Mutuals Group shall be separately reported in the Annual Report of the Watermaster pursuant to Paragraphs 18.4.8 and 18.5.17. Transfers amongst members of the Antelope Valley United Mutuals Group shall not be deemed to constitute an abandonment of any member's non-transferred rights.

**16.3.1** Nothing in Paragraph 16.3 shall prevent Antelope Valley United Mutuals Group members from transferring Overlying Production Rights to Public Water Suppliers who assume service of an Antelope Valley United Mutuals Group member's shareholders.

**16.4** Notwithstanding section 16.1, the Production Right of Boron Community Services District shall not be transferable. If and when Boron Community Services District permanently ceases all Production of Groundwater from the Basin, its Production Right shall be allocated to the other holders of Non-Overlying Production Rights, except for West Valley County Water District, in proportion to those rights.

**17. CHANGES IN POINT OF EXTRACTION AND NEW WELLS.** Parties may change the point of extraction for any Production Right to another point of extraction so long as such change of the point of extraction does not cause Material Injury. A replacement well for an existing point of extraction which is located within 300 feet of a Party's existing well shall not be considered a change in point of extraction.

**17.1 Notice of New Well**. Any Party seeking to construct a new well in order to change the point of extraction for any Production Right to another point of extraction shall notify the Watermaster at least 90 days in advance of drilling any well of the location of the new point of extraction and the intended place of use of the water Produced.

**17.2 Change in Point of Extraction by the United States**. The point(s) of extraction for the Federal Reserved Water Right may be changed, at the sole discretion of the United States, and not subject to the preceding limitation on Material Injury, to any point or points within the boundaries of Edwards Air Force Base or Plant 42. The point(s) of extraction for the Federal Reserved Water Right may be changed to points outside the boundaries of

Edwards Air Force Base or Plant 42, provided such change in the point of extraction does not cause Material Injury. In exercising its discretion under this Paragraph 17.2, the United States shall consider information in its possession regarding the effect of Production from the intended new point of extraction on the Basin, and on other Producers. Any such change in point(s) of extraction shall be at the expense of the United States. Nothing in this Paragraph is intended to waive any monetary claim(s) another Party may have against the United States in federal court based upon any change in point of extraction by the United States.

## 18. WATERMASTER

### 18.1 Appointment of Initial Watermaster.

**18.1.1** Appointment and Composition: The Court hereby appoints a Watermaster. The Watermaster shall be a five (5) member board composed of one representative each from AVEK and District No. 40, a second Public Water Supplier representative selected by District No. 40, Palmdale Water District, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, City of Lancaster, Palm Ranch Irrigation District, and Rosamond Community Services District, and two (2) landowner Parties, exclusive of public agencies and members of the Non-Pumper and Small Pumper Classes, selected by majority vote of the landowners identified on Exhibit 4 (or their successors in interest) based on their proportionate share of the total Production Rights identified in Exhibit 4. The United States may also appoint a non-voting Department of Defense (DoD) Liaison to the Watermaster committee to represent DoD interests. Participation by the DoD Liaison shall be governed by Joint Ethics Regulation 3-201. The opinions or actions of the DoD liaison in participating in or contributing to Watermaster proceedings cannot bind DoD or any of its components.

**18.1.2** Voting Protocol for Watermaster Actions:

**18.1.2.1** The Watermaster shall make decisions by unanimous vote for the purpose of selecting or dismissing the Watermaster Engineer.

**18.1.2.2** The Watermaster shall determine by unanimous vote, after consultation with the Watermaster Engineer, the types of decisions that shall require unanimous vote and those that shall require only a simple majority vote.

**18.1.2.3** All decisions of the Watermaster, other than those specifically designated as being subject to a simple majority vote, shall be by a unanimous vote.

**18.1.2.4** All board members must be present to make any decision requiring a unanimous vote.

**18.1.3** In carrying out this appointment, the Watermaster shall segregate and separately exercise in all respects the Watermaster powers delegated by the Court under this Judgment. All funds received, held, and disbursed by the Watermaster shall be by way of separate Watermaster accounts, subject to separate accounting and auditing. Meetings and hearings held by the Watermaster shall be noticed and conducted separately.

**18.1.4** Pursuant to duly adopted Watermaster rules, Watermaster staff and administrative functions may be accomplished by AVEK, subject to strict time and cost accounting principles so that this Judgment does not subsidize, and is not subsidized by AVEK.

**18.2 Standard of Performance.** The Watermaster shall carry out its duties, powers and responsibilities in an impartial manner without favor or prejudice to any Subarea, Producer, Party, or Purpose of Use.

**18.3 Removal of Watermaster.** The Court retains and reserves full jurisdiction, power, and authority to remove any Watermaster for good cause and substitute a new Watermaster in its place, upon its own motion or upon motion of any Party in accordance with the notice and hearing procedures set forth in Paragraph 20.6. The Court shall find good cause for the removal of a Watermaster upon a showing that the Watermaster has: (1) failed to exercise its powers or perform its duties; (2) performed its powers in a biased manner; or (3) otherwise failed to act in the manner consistent with the provisions set forth in this Judgment or subsequent order of the Court.

**18.4 Powers and Duties of the Watermaster.** Subject to the continuing supervision and control of the Court, the Watermaster shall have and may exercise the following express powers and duties, together with any specific powers and duties set forth elsewhere in this Judgment or ordered by the Court:

**18.4.1 Selection of the Watermaster Engineer.** The Watermaster shall select the Watermaster Engineer with the advice of the Advisory Committee described in Paragraph 19.

**18.4.2 Adoption of Rules and Regulations.** The Court may adopt appropriate rules and regulations prepared by the Watermaster Engineer and proposed by the Watermaster for conduct pursuant to this Judgment. Before proposing rules and regulations, the Watermaster shall hold a public hearing. Thirty (30) days prior to the date of the hearing, the Watermaster shall send to all Parties notice of the hearing and a copy of the proposed rules and regulations or amendments thereto. All Watermaster rules and regulations, and any amendments to the Watermaster rules and regulations, shall be consistent with this Judgment and are subject to approval by the Court, for cause shown, after consideration of the objections of any Party.

**18.4.3 Employment of Experts and Agents.** The Watermaster may employ such administrative personnel, engineering, legal, accounting, or other specialty services, and consulting assistants as appropriate in carrying out the terms of this Judgment.

**18.4.4 Notice List.** The Watermaster shall maintain a current list of Parties to receive notice. The Parties have an affirmative obligation to provide the Watermaster with their current contact information. For Small Pumper Class Members, the Watermaster shall initially use the contact information contained in the list of Small Pumper Class members filed with the Court by class counsel.

**18.4.5 Annual Administrative Budget.** The Watermaster shall prepare a proposed administrative budget for each Year. The Watermaster shall hold a public hearing regarding the proposed administrative budget and adopt an administrative budget. The administrative budget shall set forth budgeted items and Administrative Assessments in sufficient

detail to show the allocation of the expense among the Producers. Following the adoption of the budget, the Watermaster may make expenditures within budgeted items in the exercise of powers herein granted, as a matter of course.

**18.4.6 Investment of Funds**. The Watermaster may hold and invest any funds in investments authorized from time to time for public agencies in the State of California. All funds shall be held in separate accounts and not comingled with the Watermaster's personal funds.

**18.4.7 Borrowing.** The Watermaster may borrow in anticipation of receipt of proceeds from any assessments authorized in Paragraph 9 in an amount not to exceed the annual amount of assessments.

**18.4.8 Transfers.** On an annual basis, the Watermaster shall prepare and maintain a report or record of any transfer of Production Rights among Parties. Upon reasonable request, the Watermaster shall make such report or record available for inspection by any Party. A report or records of transfer of Production Rights under this Paragraph shall be considered a ministerial act.

**18.4.9 New Production Applications.** The Watermaster shall consider and determine whether to approve applications for New Production after consideration of the recommendation of the Watermaster Engineer.

**18.4.10 Unauthorized Actions**. The Watermaster shall bring such action or motion as is necessary to enjoin any conduct prohibited by this Judgment.

**18.4.11 Meetings and Records**. Watermaster shall provide notice of and conduct all meetings and hearings in a manner consistent with the standards and timetables set forth in the Ralph M. Brown Act, Government Code sections 54950, et seq. Watermaster shall make its files and records available to any Person consistent with the standards and timetables set forth in the Public Records Act, Government Code sections 6200, et seq.

**18.4.12 Assessment Procedure**. Each Party hereto is ordered to pay the assessments authorized in Paragraph 9 of this Judgment, which shall be levied and collected in

accordance with the procedures and schedules determined by the Watermaster. Any assessment which becomes delinquent, as defined by rules and regulations promulgated by the Watermaster shall bear interest at the then current real property tax delinquency rate for the county in which the property of the delinquent Party is located. The United States shall not be subject to payment of interest absent congressional waiver of immunity for the imposition of such interest. This interest rate shall apply to any said delinquent assessment from the due date thereof until paid. The delinquent assessment, together with interest thereon, costs of suit, attorneys fees and reasonable costs of collection, may be collected pursuant to (1) motion by the Watermaster giving notice to the delinquent Party only; (2) Order to Show Cause proceeding, or (3) such other lawful proceeding as may be instituted by the Watermaster or the Court. The United States shall not be subject to costs and fees absent congressional waiver of immunity for such costs and fees. The delinquent assessment shall constitute a lien on the property of the Party as of the same time and in the same manner as does the tax lien securing county property taxes. The property of the United States shall not be subject to any lien. The Watermaster shall annually certify a list of all such unpaid delinquent assessments. The Watermaster shall include the names of those Parties and the amounts of the liens in its list to the County Assessor's Office in the same manner and at the same time as it does its Administrative Assessments. Watermaster shall account for receipt of all collections of assessments collected pursuant to this Judgment, and shall pay such amounts collected pursuant to this Judgment to the Watermaster. The Watermaster shall also have the ability to seek to enjoin Production of those Parties, other than the United States, who do not pay assessments pursuant to this Judgment.

**18.5** **Watermaster Engineer.** The Watermaster Engineer shall have the following duties:

**18.5.1** **Monitoring of Safe Yield.** The Watermaster Engineer shall monitor all the Safe Yield components and include them in the annual report for Court approval. The annual report shall include all relevant data for the Basin.

**18.5.2 Reduction in Groundwater Production.** The Watermaster Engineer shall ensure that reductions of Groundwater Production to the Native Safe Yield (Rampdown) take place pursuant to the terms of this Judgment and any orders by the Court.

**18.5.3 Determination of Replacement Obligations.** The Watermaster Engineer shall determine Replacement Obligations for each Producer, pursuant to the terms of this Judgment.

**18.5.4 Balance Obligations.** The Watermaster Engineer shall determine Balance Assessment obligations for each Producer pursuant to the terms of this Judgment. In addition, the Watermaster Engineer shall determine the amount of water derived from the Balance Assessment that shall be allocated to any Producer to enable that Producer to fully exercise its Production Right.

**18.5.5 Measuring Devices, Etc.** The Watermaster Engineer shall propose, and the Watermaster shall adopt and maintain, rules and regulations regarding determination of Production amounts and installation of individual water meters. The rules and regulations shall set forth approved devices or methods to measure or estimate Production. Producers who meter Production on the date of entry of this Judgment shall continue to meter Production. The Watermaster rules and regulations shall require Producers who do not meter Production on the effective date of entry of this Judgment, except the Small Pumper Class, to install water meters within two Years.

**18.5.6 Hydrologic Data Collection.** The Watermaster Engineer shall (1) operate, and maintain such wells, measuring devices, and/or meters necessary to monitor stream flow, precipitation, Groundwater levels, and Basin Subareas, and (2) to obtain such other data as may be necessary to carry out this Judgment.

**18.5.7 Purchases of and Recharge with Replacement Water**. To the extent Imported Water is available, the Watermaster Engineer shall use Replacement Water Assessment proceeds to purchase Replacement Water, and deliver such water to the area deemed most appropriate as soon as practicable. The Watermaster Engineer may pre-purchase

Replacement Water and apply subsequent assessments towards the costs of such pre-purchases. The Watermaster Engineer shall reasonably and equitably actively manage the Basin to protect and enhance the health of the Basin.

**18.5.8 Water Quality.** The Watermaster Engineer shall take all reasonable steps to assist and encourage appropriate regulatory agencies to enforce reasonable water quality regulations affecting the Basin, including regulation of solid and liquid waste disposal, and establishing Memorandums of Understanding with Kern and Los Angeles Counties regarding well drilling ordinances and reporting.

**18.5.9 Native Safe Yield.** Ten (10) Years following the end of the seven Year Rampdown period, in the seventeenth (17th) Year, or any time thereafter, the Watermaster Engineer may recommend to the Court an increase or reduction of the Native Safe Yield. The Watermaster Engineer shall initiate no recommendation to change Native Safe Yield prior to the end of the seventeenth (17th) Year. In the event the Watermaster Engineer recommends in its report to the Court that the Native Safe Yield be revised based on the best available science, the Court shall conduct a hearing regarding the recommendations and may order a change in Native Safe Yield. Watermaster shall give notice of the hearing pursuant to Paragraph 20.3.2. The most recent Native Safe Yield shall remain in effect until revised by Court order according to this paragraph. If the Court approves a reduction in the Native Safe Yield, it shall impose a Pro-Rata Reduction as set forth herein, such reduction to be implemented over a seven (7) Year period. If the Court approves an increase in the Native Safe Yield, it shall impose a Pro-Rata Increase as set forth herein, such increase to be implemented immediately. Only the Court can change the Native Safe Yield.

**18.5.10 Change in Production Rights in Response to Change in Native Safe Yield.** In the event the Court changes the Native Safe Yield pursuant to Paragraph 18.5.9, the increase or decrease will be allocated among the Producers in the agreed percentages listed in Exhibits 3 and 4, except that the Federal Reserved Water Right of the United States is not subject to any increase or decrease.

**18.5.11 Review of Calculation of Imported Water Return Flow Percentages**. Ten (10) Years following the end of the Rampdown, in the seventeenth (17th) Year, or any time thereafter, the Watermaster Engineer may recommend to the Court an increase or decrease of Imported Water Return Flow percentages. The Watermaster Engineer shall initiate no recommendation to change Imported Water Return Flow percentages prior to end of the seventeenth (17th) Year. In the event the Watermaster Engineer recommends in its report to the Court that Imported Water Return Flow percentages for the Basin may need to be revised based on the best available science, the Court shall conduct a hearing regarding the recommendations and may order a change in Imported Water Return Flow percentages. Watermaster shall give notice of the hearing pursuant to Paragraph 20.6. The Imported Water Return Flow percentages set forth in Paragraph 5.2 shall remain in effect unless revised by Court order according to this Paragraph. If the Court approves a reduction in the Imported Water Return Flow percentages, such reduction shall be implemented over a seven (7) Year period. Only the Court can change the Imported Water Return Flow percentages.

**18.5.12 Production Reports**. The Watermaster Engineer shall require each Producer, other than unmetered Small Pumper Class Members, to file an annual Production report with the Watermaster. Producers shall prepare the Production reports in a form prescribed by the rules and regulations. The Production reports shall state the total Production for the reporting Party, including Production per well, rounded off to the nearest tenth of an acre foot for each reporting period. The Production reports shall include such additional information and supporting documentation as the rules and regulations may reasonably require.

**18.5.13 New Production Application Procedure.** The Watermaster Engineer shall determine whether a Party or Person seeking to commence New Production has established the reasonableness of the New Production in the context of all other uses of Groundwater in the Basin at the time of the application, including whether all of the Native Safe Yield is then currently being used reasonably and beneficially. Considering common law water rights and priorities, the mandate of certainty in Article X, section 2, and all other relevant

factors, the Watermaster Engineer has authority to recommend that the application for New Production be denied, or approved on condition of payment of a Replacement Water Assessment. The Watermaster Engineer shall consider, investigate and recommend to the Watermaster whether an application to commence New Production of Groundwater may be approved as follows:

**18.5.13.1** All Parties or Person(s) seeking approval from the Watermaster to commence New Production of Groundwater shall submit a written application to the Watermaster Engineer which shall include the following:

**18.5.13.1.1** Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production;

**18.5.13.1.2** Written summary describing the proposed quantity, sources of supply, season of use, Purpose of Use, place of use, manner of delivery, and other pertinent information regarding the New Production;

**18.5.13.1.3** Maps identifying the location of the proposed New Production, including Basin Subarea;

**18.5.13.1.4** Copy of any water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production;

**18.5.13.1.5** Written confirmation that the applicant has obtained all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production;

**18.5.13.1.6** Written confirmation that the applicant has complied with all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.);

**18.5.13.1.7** Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices.

**18.5.13.1.8** Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin;

**18.5.13.1.9** Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin;

**18.5.13.1.10** A written statement, signed by a California licensed and registered professional civil engineer, determining that the New Production will not cause Material Injury;

**18.5.13.1.11** Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.

**18.5.13.1.12** Other pertinent information which the Watermaster Engineer may require.

**18.5.13.2 Finding of No Material Injury**. The Watermaster Engineer shall not make recommendation for approval of an application to commence New Production of Groundwater unless the Watermaster Engineer finds, after considering all the facts and circumstances including any requirement that the applicant pay a Replacement Water Assessment required by this Judgment or determined by the Watermaster Engineer to be required under the circumstances, that such New Production will not cause Material Injury. If the New Production is limited to domestic use for one single-family household, the Watermaster Engineer has the authority to determine the New Production to be *de minimis* and waive payment of a Replacement Water Assessment; *provided*, the right to Produce such *de minimis* Groundwater is not transferable, and shall not alter the Production Rights decreed in this Judgment.

**18.5.13.3 New Production**. No Party or Person shall commence New Production of Groundwater from the Basin absent recommendation by the Watermaster Engineer and approval by the Watermaster.

**18.5.13.4 Court Review.** Court review of a Watermaster decision on a New Production application shall be pursuant to Paragraph 20.3.

**18.5.14 Storage Agreements**. The Watermaster shall adopt uniformly applicable rules for Storage Agreements. The Watermaster Engineer shall calculate additions, extractions and losses of water stored under Storage Agreements and maintain an Annual account of all such water. Accounting done by the Watermaster Engineer under this Paragraph shall be considered ministerial.

**18.5.15 Diversion of Storm Flow**. No Party may undertake or cause the construction of any project within the Watershed of the Basin that will reduce the amount of storm flows that would otherwise enter the Basin and contribute to the Native Safe Yield, without prior notification to the Watermaster Engineer. The Watermaster Engineer may seek an injunction or to otherwise impose restrictions or limitations on such project in order to prevent reduction to Native Safe Yield. The Party sought to be enjoined or otherwise restricted or limited is entitled to notice and an opportunity for the Party to respond prior to the imposition of any restriction or limitation. Any Person may take emergency action as may be necessary to protect the physical safety of its residents and personnel and its structures from flooding. Any such action shall be done in a manner that will minimize any reduction in the quantity of Storm Flows.

**18.5.16 Data, Estimates and Procedures**. The Watermaster Engineer shall rely on and use the best available science, records and data to support the implementation of this Judgment. Where actual records of data are not available, the Watermaster Engineer shall rely on and use sound scientific and engineering estimates. The Watermaster Engineer may use preliminary records of measurements, and, if revisions are subsequently made, may reflect such revisions in subsequent accounting.

**18.5.17 Filing of Annual Report**. The Watermaster Engineer shall prepare an Annual Report for filing with the Court not later than April 1 of each Year, beginning April 1 following the first full Year after entry of this Judgment. Prior to filing the Annual Report with the Court, Watermaster shall notify all Parties that a draft of the Annual Report is available for review by the Parties. Watermaster shall provide notice to all Parties of a public hearing to receive comments and recommendations for changes in the Annual Report. The public hearing shall be conducted pursuant to rules and regulations promulgated by the Watermaster. The notice of public hearing may include such summary of the draft Annual Report as Watermaster may deem appropriate. Watermaster shall distribute the Annual Report to any Parties requesting copies.

**18.5.18 Annual Report to Court.** The Annual Report shall include an Annual fiscal report of the preceding Year's operation; details regarding the operation of each of the Subareas; an audit of all Assessments and expenditures; and a review of Watermaster activities. The Annual Report shall include a compilation of at least the following:

**18.5.18.1** Replacement Obligations;

**18.5.18.2** Hydrologic Data Collection;

**18.5.18.3** Purchase and Recharge of Imported Water;

**18.5.18.4** Notice List;

**18.5.18.5** New Production Applications

**18.5.18.6** Rules and Regulations;

**18.5.18.7** Measuring Devices, etc;

**18.5.18.8** Storage Agreements;

**18.5.18.9** Annual Administrative Budget;

**18.5.18.10** Transfers;

**18.5.18.11** Production Reports;

**18.5.18.12** Prior Year Report;

**18.5.18.13** Amount of Stored Water owned by each Party;

**18.5.18.14** Amount of Stored Imported Water owned by each Party;

**18.5.18.15** Amount of unused Imported Water Return Flows owned by each Party;

**18.5.18.16** Amount of Carry Over Water owned by each Party;

**18.5.18.17** All changes in use.

**18.6 Recommendations of the Watermaster Engineer.** Unless otherwise determined pursuant to Paragraph 18.1.2.2, all recommendations of the Watermaster Engineer must be approved by unanimous vote of all members of the Watermaster. If there is not unanimous vote among Watermaster members, Watermaster Engineer recommendations must be presented to the Court for action and implementation.

**18.7 Interim Approvals by the Court.** Until the Court approves rules and regulations proposed by the Watermaster, the Court, upon noticed motion, may take or approve any actions that the Watermaster or the Watermaster Engineer otherwise would be authorized to take or approve under this Judgment.

## 19. ADVISORY COMMITTEE

**19.1 Authorization.** The Producers are authorized and directed to cause a committee of Producer representatives to be organized and to act as an Advisory Committee.

**19.2 Compensation.** The Advisory Committee members shall serve without compensation.

**19.3 Powers and Functions.** The Advisory Committee shall act in an advisory capacity only and shall have the duty to study, review, and make recommendations on all discretionary determinations by Watermaster. Parties shall only provide input to the Watermaster through the Advisory Committee.

**19.4 Advisory Committee Meetings.** The Advisory Committee shall 1) meet on a regular basis; 2) review Watermaster's activities pursuant to this Judgment on at least a semi-annual basis; and 3) receive and make advisory recommendations to Watermaster. Advisory Committee Meetings shall be open to all members of the public. Edwards Air Force

Base and the State of California shall be ex officio members of the committee. The United States may also appoint a DoD Liaison to the Watermaster pursuant to Joint Ethics Regulation 3-201.

**19.5 Subarea Advisory Management Committees.** Subarea Advisory Management Committees will meet on a regular basis and at least semi-annually with the Watermaster Engineer to review Watermaster activities pursuant to this Judgment and to submit advisory recommendations.

**19.5.1 Authorization**. The Producers in each of the five Management Subareas are hereby authorized and directed to cause committees of Producer representatives to be organized and to act as Subarea Management Advisory Committees.

**19.5.2 Composition and Election**. Each Management Subarea Management Advisory Committee shall consist of five (5) Persons who shall be called Management Advisors. In the election of Management Advisors, every Party shall be entitled to one vote for every acre-foot of Production Right for that Party in that particular subarea. Parties may cumulate their votes and give one candidate a number of votes equal to the number of advisors to be elected, multiplied by the number of votes to which the Party is normally entitled, or distribute the Party's votes on the same principle among as many candidates as the Party thinks fit. In any election of advisors, the candidates receiving the highest number of affirmative votes of the Parties are elected. Elections shall be held upon entry of this Judgment and thereafter every third Year. In the event a vacancy arises, a temporary advisor shall be appointed by unanimous decision of the other four advisors to continue in office until the next scheduled election. Rules and regulations regarding organization, meetings and other activities shall be at the discretion of the individual Subarea Advisory Committees, except that all meetings of the committees shall be open to the public.

**19.5.3 Compensation**. The Subarea Management Advisory Committee shall serve without compensation.

**19.5.4 Powers and Functions.** The Subarea Management Advisory Committee for each subarea shall act in an advisory capacity only and shall have the duty to

study, review and make recommendations on all discretionary determinations made or to be made hereunder by Watermaster Engineer which may affect that subarea.

**20. MISCELLANEOUS PROVISIONS.**

**20.1 Water Quality.** Nothing in this Judgment shall be interpreted as relieving any Party of its responsibilities to comply with State or Federal laws for the protection of water quality or the provisions of any permits, standards, requirements, or orders promulgated thereunder.

**20.2 Actions Not Subject to CEQA Regulation**. Nothing in this Judgment or the Physical Solution, or in the implementation thereof, or the decisions of the Watermaster acting under the authority of this Judgment shall be deemed a "project" subject to the California Environmental Quality Act (CEQA). See e.g., *California American Water v. City of Seaside* (2010) 183 Cal.App.4th 471, and *Hillside Memorial Park & Mortuary v. Golden State Water Co*. (2011) 205 Cal.App.4th 534. Neither the Watermaster, the Watermaster Engineer, the Advisory Committee, any Subarea Management Committee, nor any other Board or committee formed pursuant to the Physical Solution and under the authority of this Judgment shall be deemed a "public agency" subject to CEQA. (See Public Resources Code section 21063.)

**20.3 Court Review of Watermaster Actions**. Any action, decision, rule, regulation, or procedure of Watermaster or the Watermaster Engineer pursuant to this Judgment shall be subject to review by the Court on its own motion or on timely motion by any Party as follows:

**20.3.1 Effective Date of Watermaster Action.** Any order, decision or action of Watermaster or Watermaster Engineer pursuant to this Judgment on noticed specific agenda items shall be deemed to have occurred on the date of the order, decision or action.

**20.3.2 Notice of Motion.** Any Party may move the Court for review of an action or decision pursuant to this Judgment by way of a noticed motion. The motion shall be served pursuant to Paragraph 20.7 of this Judgment. The moving Party shall ensure that the Watermaster is served with the motion under that Paragraph 20.7 or, if electronic service of the

Watermaster is not possible, by overnight mail with prepaid next-day delivery. Unless ordered by the Court, any such petition shall not operate to stay the effect of any action or decision which is challenged.

**20.3.3 Time for Motion.** A Party shall file a motion to review any action or decision within ninety (90) days after such action or decision, except that motions to review assessments hereunder shall be filed within thirty (30) days of Watermaster mailing notice of the assessment.

**20.3.4 De Novo Nature of Proceeding**. Upon filing of a motion to review a decision or action, the Watermaster shall notify the Parties of a date for a hearing at which time the Court shall take evidence and hear argument. The Court's review shall be *de novo* and the Watermaster's decision or action shall have no evidentiary weight in such proceeding.

**20.3.5 Decision**. The decision of the Court in such proceeding shall be an appealable supplemental order in this case. When the Court's decision is final, it shall be binding upon Watermaster and the Parties.

**20.4 Multiple Production Rights**. A Party simultaneously may be a member of the Small Pumper Class and hold an Overlying Production Right by virtue of owning land other than the parcel(s) meeting the Small Pumper Class definition. The Small Pumper Class definition shall be construed in accordance with Paragraph 3.5.44 and 3.5.45.

**20.5 Payment of Assessments**. Payment of assessments levied by Watermaster hereunder shall be made pursuant to the time schedule developed by the Watermaster, notwithstanding any motion for review of Watermaster actions, decisions, rules or procedures, including review of assessments implemented by the Watermaster.

**20.6 Designation of Address for Notice and Service**. Each Party shall designate a name and address to be used for purposes of all subsequent notices and service herein, either by its endorsement on this Judgment or by a separate designation to be filed within thirty (30) days after judgment has been entered. A Party may change its designation by filing a written notice of such change with Watermaster. A Party that desires to be relieved of receiving notices

of Watermaster activity may file a waiver of notice in a form to be provided by Watermaster. At all times, Watermaster shall maintain a current list of Parties to whom notices are to be sent and their addresses for purpose of service. Watermaster shall also maintain a full current list of said names and addresses of all Parties or their successors, as filed herein. Watermaster shall make copies of such lists available to any requesting Person. If no designation is made, a Party's designee shall be deemed to be, in order of priority: (1) the Party's attorney of record; (2) if the Party does not have an attorney of record, the Party itself at the address on the Watermaster list; (3) for Small Pumper Class Members, after this Judgment is final, the individual Small Pumper Class Members at the service address maintained by the Watermaster.

**20.7 Service of Documents**. Unless otherwise ordered by the Court, delivery to or service to any Party by the Court or any Party of any document required to be served upon or delivered to a Party pursuant to this Judgment shall be deemed made if made by e-filing on the Court's website at www.scefiling.org. All Parties agree to waive service by mail if they receive notifications via electronic filing at the above identified website.

**20.8 No Abandonment of Rights**. In the interest of the Basin and its water supply, and the principle of reasonable and beneficial use, no Party shall be encouraged to Produce and use more water in any Year than is reasonably required. Failure to Produce all of the Groundwater to which a Party is entitled shall not, in and of itself, be deemed or constitute an abandonment of such Party's right, in whole or in part, except as specified in Paragraph 15.

**20.9 Intervention After Judgment**. Any Person who is not a Party or successor to a Party and who proposes to Produce Groundwater from the Basin, to store water in the Basin, to acquire a Production Right or to otherwise take actions that may affect the Basin's Groundwater is required to seek to become a Party subject to this Judgment through a noticed motion to intervene in this Judgment prior to commencing Production. Prior to filing such a motion, a proposed intervenor shall consult with the Watermaster Engineer and seek the Watermaster's stipulation to the proposed intervention. A proposed intervenor's failure to consult

with the Watermaster Engineer may be grounds for denying the intervention motion. Thereafter, if approved by the Court, such intervenor shall be a Party bound by this Judgment.

**20.10 Judgment Binding on Successors, etc.** Subject to specific provisions hereinbefore contained, this Judgment applies to and is binding upon, and inures to the benefit of the Parties to this Action and all their respective heirs, successors-in-interest and assigns.

**20.11 Costs**. Except subject to any existing court orders, each Party shall bear its own costs and attorneys fees arising from the Action.

**20.12 Headings; Paragraph References**. Captions and headings appearing in this Judgment are inserted solely as reference aids for ease and convenience; they shall not be deemed to define or limit the scope or substance of the provisions they introduce, nor shall they be used in construing the intent or effect of such provisions.

**20.13 No Third Party Beneficiaries**. There are no intended third party beneficiaries of any right or obligation of the Parties.

**20.14 Severability**. Except as specifically provided herein, the provisions of this Judgment are not severable.

**20.15 Cooperation; Further Acts**. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Judgment.

**20.16 Exhibits and Other Writings**. Any and all exhibits, documents, instruments, certificates or other writings attached hereto or required or provided for by this Judgment, if any, shall be part of this Judgment and shall be considered set forth in full at each reference thereto in this Judgment.

Dated: _____

_____
JUDGE OF THE SUPERIOR COURT

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| 3 | Jacqueline Ackermann | 3/23/2012 | 5/8/2013 |
| 4 | ADVINCULA, CENON S | 3/23/2012 | 5/8/2013 |
| 5 | ADVINCULA, OLIVA M | 3/23/2012 | 5/8/2013 |
| 6 | ALDAIS, MARWAN M. | 3/23/2012 | 5/8/2013 |
| 7 | AGUSTINES, ANTONIO U | 3/23/2012 | 5/8/2013 |
| 7 | Allen Alevy | 3/23/2012 | 5/8/2013 |
| 8 | ARCHER, GEORGINE J. | 3/23/2012 | 5/8/2013 |
| 8 | Allen Alevy and Alevy Family Trust | 3/23/2012 | 5/8/2013 |
| 9 | ARCHER GEORGINE J as Trustee for the Georgine J. Archer Trust | 3/23/2012 | 5/8/2013 |
| 10 | BARKS, GUSS A. JR. | 3/23/2012 | 5/8/2013 |
| 11 | BRONSTON, LEROY DANIEL | 3/23/2012 | 5/8/2013 |
| 12 | BAYANI, ILDEFONSO S. | 3/23/2012 | 5/8/2013 |
| 13 | Castle Butte Dev. Corp | 3/23/2012 | 5/8/2013 |
| 13 | BAYANI, NILDA V. | 3/23/2012 | 5/8/2013 |
| 16 | FUNK, JOAN A | 3/23/2012 | 5/8/2013 |
| 19 | GENUS L P | 3/23/2012 | 5/8/2013 |
| 24 | Illy King | 3/23/2012 | 5/8/2013 |
| 24 | Melinda E Cameron | 3/23/2012 | 5/8/2013 |
| 25 | Illy King Family Trust | 3/23/2012 | 5/8/2013 |
| 25 | Catellus Development Corporation | 3/23/2012 | 5/8/2013 |
| 26 | KUTU INVESTMENT CO - Suspended | 3/23/2012 | 5/8/2013 |
| 26 | BONG S. CHANG | 9/17/2015 | 10/16/2015 |
| 27 | LAI, EVA | 3/23/2012 | 5/8/2013 |
| 27 | CHANG, JEANNA Y. | 3/23/2012 | 5/8/2013 |
| 28 | LAI, PAUL | 3/23/2012 | 5/8/2013 |
| 28 | MOON S. CHANG | 9/17/2015 | 10/16/2015 |
| 29 | CHETRIT, JACOB | 3/23/2012 | 5/8/2013 |
| 31 | Pei Chi Lin | 3/23/2012 | 5/8/2013 |
| 31 | Lee Shiow Chiou | 3/23/2012 | 5/8/2013 |
| 32 | CHUNG, M S | 3/23/2012 | 5/8/2013 |
| 35 | COLE, C.C. THELMA | 3/23/2012 | 5/8/2013 |
| 36 | COLE, J. | 3/23/2012 | 5/8/2013 |
| 36 | RUDNICK, OSCAR | 9/16/2015 | 10/16/2015 |
| 37 | RUDNICK, REBECCA | 3/23/2012 | 5/8/2013 |
| 37 | J. & C. C. Thelma Cole and T. J. Cole Trust (J. Cole as Trustee for the T. J. Cole Trust) | 3/23/2012 | 5/8/2013 |
| 41 | CUMMING, RUTH A | 9/17/2015 | 10/16/2015 |
| 43 | DAVIS, CATHARINE M | 3/23/2012 | 5/8/2013 |
| 44 | Milton S. Davis | 3/23/2012 | 5/8/2013 |
| 46 | Sarkis Djanibekyan | 3/23/2012 | 5/8/2013 |
| 47 | DONG, HONG | 3/23/2012 | 5/8/2013 |
| 48 | DONG, YING X. | 3/23/2012 | 5/8/2013 |
| 51 | FOROUGHI, MORTEZA | 9/17/2015 | 10/16/2015 |
| 52 | MORTEZA M. FOROUGHI AND FOROUGHI FAMILY TRUST | 9/17/2015 | 10/16/2015 |
| 53 | Lewis Friedrichsen | 3/23/2012 | 5/8/2013 |
| 54 | Lewis Friedrichsen as Trustee of the Friedrichsen Family Trust | 3/23/2012 | 5/8/2013 |
| 55 | Aurora P Gabuya | 3/23/2012 | 5/8/2013 |
| 58 | Betty Gluckstein | 3/23/2012 | 5/8/2013 |
| 59 | Joseph H Gluckstein | 9/17/2015 | 10/16/2015 |
| 60 | GLUCKSTEIN,MORRIS | 3/23/2012 | 5/8/2013 |
| 61 | GLUCKSTEIN, ROSE | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| 66 | GORRINDO, L. | 3/23/2012 | 5/8/2013 |
| 71 | HAUKE,ANDREAS | 3/23/2012 | 5/8/2013 |
| 72 | HAUKE, MARILYN | 3/23/2012 | 5/8/2013 |
| 75 | HIGELMIRE,DONNA | 3/23/2012 | 5/8/2013 |
| 76 | Michael N. Higelmire | 3/23/2012 | 5/8/2013 |
| 78 | Hooshpack Dev Inc | 3/23/2012 | 5/8/2013 |
| 79 | Chi S Huang | 3/23/2012 | 5/8/2013 |
| 80 | HUANG, SUCHU T. | 3/23/2012 | 5/8/2013 |
| 81 | Hypericum Interest LLC | 3/23/2012 | 5/8/2013 |
| 82 | IRANINEZHAD, DARYUSH | 3/23/2012 | 5/8/2013 |
| 83 | IRANINEZHAD, MINOO | 3/23/2012 | 5/8/2013 |
| 84 | KADIVAR,ESFANDIAR | 3/23/2012 | 5/8/2013 |
| 85 | KADIVAR FAMILY TRUST (Esfandiar Kadivar as Trustee of the Kadivar Family Trust) | 3/23/2012 | 5/8/2013 |
| 88 | Cheng Lin Kang | 3/23/2012 | 5/8/2013 |
| 94 | YOSHIMATSU, KAZUKO | 3/23/2012 | 5/8/2013 |
| 95 | Billy H. Kim | 3/23/2012 | 5/8/2013 |
| 106 | LAWRENCE, CHARLES TRUST | 3/23/2012 | 5/8/2013 |
| 108 | Light Andrew & Youngnam | 3/23/2012 | 5/8/2013 |
| 109 | Man C Lo | 3/23/2012 | 5/8/2013 |
| 110 | SHIUNG, RU | 3/23/2012 | 5/8/2013 |
| 111 | Lyman C. Miles | 3/23/2012 | 5/8/2013 |
| 112 | Lyman C. Miles as Trustee for the Miles Family Trust | 3/23/2012 | 5/8/2013 |
| 114 | Mission Bell Ranch Development | 3/23/2012 | 5/8/2013 |
| 118 | M R Nasir | 3/23/2012 | 5/8/2013 |
| 119 | Souad R Nasir | 3/23/2012 | 5/8/2013 |
| 121 | Simin C. Neman | 3/23/2012 | 5/8/2013 |
| 123 | Frank T. Nguyen | 3/23/2012 | 5/8/2013 |
| 124 | Juanita R Nichols | 3/23/2012 | 5/8/2013 |
| 125 | Oliver Nichols | 3/23/2012 | 5/8/2013 |
| 126 | Oliver Nichols as Trustee of the Nichols Family Trust | 3/23/2012 | 5/8/2013 |
| 128 | POULSEN,NORMAN L | 3/23/2012 | 5/8/2013 |
| 130 | Victoria Rahimi | 3/23/2012 | 5/8/2013 |
| 132 | Veronika Reinelt | 3/23/2012 | 5/8/2013 |
| 133 | Reinelt Rosenloecher Corp PSP | 3/23/2012 | 5/8/2013 |
| 140 | Rosemount Equities LLC Series | 3/23/2012 | 5/8/2013 |
| 141 | Royal Investors Group | 3/23/2012 | 5/8/2013 |
| 142 | ROYAL WESTERN PROPERTIES LLC - ACTIVE | 3/23/2012 | 5/8/2013 |
| 145 | Daniel Saparzadeh | 3/23/2012 | 5/8/2013 |
| 149 | SCHWARTZ, MARTIN | 3/23/2012 | 5/8/2013 |
| 151 | SEVEN STAR UNITED LLC | 3/23/2012 | 5/8/2013 |
| 155 | Donna L Simpson | 3/23/2012 | 5/8/2013 |
| 156 | Gareth L Simpson | 3/23/2012 | 5/8/2013 |
| 157 | Simpson Family Trust (Gareth L. Simpson as Trustee of the Simpson Family Trust) | 3/23/2012 | 5/8/2013 |
| 164 | GEORGE L STIMSON JR TRUST (George L. Stimson, Jr. as Trustee of the George L. Stimson, Jr. Trust) | 3/23/2012 | 5/8/2013 |
| 167 | TIU TIONG D. | 3/23/2012 | 5/8/2013 |
| 172 | Wilma D. Trueblood | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| 173 | Wilma D. Trueblood as Trustee of the Trueblood Family Trust | 3/23/2012 | 5/8/2013 |
| 177 | WALES, KEITH E. | 3/23/2012 | 5/8/2013 |
| 180 | Alex Wodchis | 3/23/2012 | 5/8/2013 |
| 181 | WONG, ELIZABETH | 3/23/2012 | 5/8/2013 |
| 182 | WONG, MARY | 3/23/2012 | 5/8/2013 |
| 183 | WU, MIKE M. | 3/23/2012 | 5/8/2013 |
| 184 | WU FAMILY (MIKE M. WU AS TRUSTEE OF THE WU FAMILY TRUST) | 3/23/2012 | 5/8/2013 |
| 202 | GREEN GROVE MUTUAL WATER COMPANY, INC. | 3/23/2012 | 5/8/2013 |
| 206 | LLANO FARMS MUTUAL WATER COMPANY | 3/23/2012 | 5/8/2013 |
| 208 | PIUTE MUTUAL WATER COMPANY | 3/23/2012 | 5/8/2013 |
| 210 | Wilsona Gardens Mutual Water Company | 3/23/2012 | 5/8/2013 |
| 211 | Edgemont Acres Mutual Water Company | 3/23/2012 | 5/8/2013 |
| 213 | ROSAMOND MUTUAL WATER COMPANY | 3/23/2012 | 5/8/2013 |
| Roe 234 | Aceh Capital LLC | 3/23/2012 | 5/8/2013 |
| Roe 235 | Ehsan Afaghi | 3/23/2012 | 5/8/2013 |
| Roe 237 | Bruce Allen | 3/23/2012 | 5/8/2013 |
| Roe 238 | Ana Verde Canyon Limited | 3/23/2012 | 5/8/2013 |
| Roe 240 | Clinton Edwards Andrews | 3/23/2012 | 5/8/2013 |
| Roe 244 | AV Foothills LLC | 3/23/2012 | 5/8/2013 |
| Roe 246 | C and P Lancaster Properties, L.L.C. | 3/23/2012 | 5/8/2013 |
| Roe 248 | California Springs Land & Development, Inc. | 3/23/2012 | 5/8/2013 |
| Roe 250 | Capital Pacific Homes | 3/23/2012 | 5/8/2013 |
| Roe 253 | Moon S. Chang and Bong S. Chang, Trustees | 9/17/2015 | 10/16/2015 |
| Roe 254 | Theodore His-En and Wen-Hui C. Chen, as Co-Trustees of the Chen Family Trust (Established October 27, 1989) | 3/23/2012 | 5/8/2013 |
| Roe 255 | Andrew J. Chitiea | 3/23/2012 | 5/8/2013 |
| Roe 256 | Joan K Chitiea | 3/23/2012 | 5/8/2013 |
| Roe 257 | Myron Z. Chlavin, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 259 | Richard L. Clark and Elaine M. Clark, Trs. | 3/23/2012 | 5/8/2013 |
| Roe 260 | Menandro M. Marcelo and Ofelia or their Successors, as Trustees of the Menandro and Ofelia Marcelo Family Trust Dated June 2, 2006 | 3/23/2012 | 5/8/2013 |
| Roe 261 | CPH Tehachapi 280 LLC | 3/23/2012 | 5/8/2013 |
| Roe 264 | Cyrstalaire Country Club | 3/23/2012 | 5/8/2013 |
| Roe 266 | Kristeen Cua | 3/23/2012 | 5/8/2013 |
| Roe 267 | Lita Davies | 3/23/2012 | 5/8/2013 |
| Roe 268 | Richard Daniel De La Matyr | 3/23/2012 | 5/8/2013 |
| Roe 269 | Long Deng | 3/23/2012 | 5/8/2013 |
| Roe 270 | Dr Horton Los Angeles Holding, Inc. | 3/23/2012 | 5/8/2013 |
| Roe 272 | Discountland Inc. | 3/23/2012 | 5/8/2013 |
| Roe 273 | Dowhen Family | 3/23/2012 | 5/8/2013 |
| Roe 274 | Mohammed Naji Elhayek | 3/23/2012 | 5/8/2013 |
| Roe 276 | Farhad Alnd | 3/23/2012 | 5/8/2013 |
| Roe 277 | Vera V. Farwell | 3/23/2012 | 5/8/2013 |
| Roe 279 | Hersell Alnd | 3/23/2012 | 5/8/2013 |
| Roe 281 | James H. Gisbrecht and Mary L. Gisbrecht, Trustees | 3/23/2012 | 5/8/2013 |
| Roe 282 | Harry C. Godshall, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 284 | Sam Haskins | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 285 | Yoram Hassid and Yael Hassid, Trustees | 3/23/2012 | 5/8/2013 |
| Roe 286 | David J. Hester, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 287 | Jack D. Hilton | 3/23/2012 | 5/8/2013 |
| Roe 288 | Rita Hilton | 3/23/2012 | 5/8/2013 |
| Roe 289 | Clement L. Hirsch, Jr., Trustee | 3/23/2012 | 5/8/2013 |
| Roe 290 | Carol A. Hooper | 3/23/2012 | 5/8/2013 |
| Roe 291 | Thomas J. Hooper | 3/23/2012 | 5/8/2013 |
| Roe 292 | David W. Hopkins | 3/23/2012 | 5/8/2013 |
| Roe 293 | Gerald P Hopkins | 3/23/2012 | 5/8/2013 |
| Roe 294 | Sumei P Hsi Trust | 3/23/2012 | 5/8/2013 |
| Roe 295 | Ja Bin Hsu, Co-Trustee | 3/23/2012 | 5/8/2013 |
| Roe 296 | Kangle Huang | 3/23/2012 | 5/8/2013 |
| Roe 297 | Yiling Lin | 3/23/2012 | 5/8/2013 |
| Roe 299 | James A. Hunter | 3/23/2012 | 5/8/2013 |
| Roe 300 | Cyrus Serry | 3/23/2012 | 5/8/2013 |
| Roe 301 | J and J General Partnership | 3/23/2012 | 5/8/2013 |
| Roe 302 | J P Eliopulos Enterprises Inc. | 3/23/2012 | 5/8/2013 |
| Roe 303 | Jensen Trust | 3/23/2012 | 5/8/2013 |
| Roe 304 | Thomas Jones, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 305 | Joshua Ranch Development Inc | 3/23/2012 | 5/8/2013 |
| Roe 309 | Kathryn T. Karlakis | 3/23/2012 | 5/8/2013 |
| Roe 310 | James Kim | 3/23/2012 | 5/8/2013 |
| Roe 311 | Glenn K. Kim Family LLC | 3/23/2012 | 5/8/2013 |
| Roe 312 | Rose M Kolstad | 3/23/2012 | 5/8/2013 |
| Roe 313 | Korda | 3/23/2012 | 5/8/2013 |
| Roe 314 | Sarah Korda | 3/23/2012 | 5/8/2013 |
| Roe 315 | Lancaster and 120 111 LLC | 3/23/2012 | 5/8/2013 |
| Roe 317 | George R. Lazenby | 3/23/2012 | 5/8/2013 |
| Roe 318 | Samuel Lee | 3/23/2012 | 5/8/2013 |
| Roe 319 | Youngsin Lee | 3/23/2012 | 5/8/2013 |
| Roe 320 | Leona Valley Hunting Club | 3/23/2012 | 5/8/2013 |
| Roe 321 | Sue Levine | 3/23/2012 | 5/8/2013 |
| Roe 322 | Phillip W. Lewis, Co-Trustee | 3/23/2012 | 5/8/2013 |
| Roe 323 | David H. Li | 3/23/2012 | 5/8/2013 |
| Roe 325 | Michael Lin | 3/23/2012 | 5/8/2013 |
| Roe 326 | Linda L. Yang | 3/23/2012 | 5/8/2013 |
| Roe 330 | Lucky 360 Investments LLC | 3/23/2012 | 5/8/2013 |
| Roe 331 | Janet L Lyman | 3/23/2012 | 5/8/2013 |
| Roe 332 | S. K. Madan | 3/23/2012 | 5/8/2013 |
| Roe 333 | Laurie F. Magbanua | 3/23/2012 | 5/8/2013 |
| Roe 339 | Lim S Mov | 3/23/2012 | 5/8/2013 |
| Roe 340 | MRN Family Limited Partnership | 3/23/2012 | 5/8/2013 |
| Roe 341 | Gay E Naiditch | 3/23/2012 | 5/8/2013 |
| Roe 343 | Chester Nigra, Co-Trustee | 3/23/2012 | 5/8/2013 |
| Roe 344 | Richard J. Nigra, Sr., Custodian | 3/23/2012 | 5/8/2013 |
| Roe 345 | Neil Nissing | 3/23/2012 | 5/8/2013 |
| Roe 346 | Masaaki Okamoto | 3/23/2012 | 5/8/2013 |
| Roe 347 | Keiko Okamoto | 3/23/2012 | 5/8/2013 |
| Roe 348 | Noriyuki Okamoto | 3/23/2012 | 5/8/2013 |
| Roe 349 | Shoji Okamoto | 3/23/2012 | 5/8/2013 |
| Roe 350 | Pacific American Inv Ltd Inc | 3/23/2012 | 5/8/2013 |
| Roe 352 | Palmdale 1000 Associates LLC | 3/23/2012 | 5/8/2013 |
| Roe 354 | Marvin R Perriseau | 3/23/2012 | 5/8/2013 |
| Roe 355 | Karen L. Perriseau | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 356 | Frank W. Pritchard | 3/23/2012 | 5/8/2013 |
| Roe 357 | Margaret F Pritchard | 3/23/2012 | 5/8/2013 |
| Roe 358 | Petersen Properties | 3/23/2012 | 5/8/2013 |
| Roe 359 | Thang D Pham | 3/23/2012 | 5/8/2013 |
| Roe 361 | John W. Phelps | 3/23/2012 | 5/8/2013 |
| Roe 362 | James S. Phelps | 3/23/2012 | 5/8/2013 |
| Roe 365 | Efren Reyes | 3/23/2012 | 5/8/2013 |
| Roe 366 | RMG Property Holding Two LLC | 3/23/2012 | 5/8/2013 |
| Roe 367 | Steffany J Rohn | 3/23/2012 | 5/8/2013 |
| Roe 369 | Melvin K. Rust, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 370 | San Ho Huang | 3/23/2012 | 5/8/2013 |
| Roe 371 | Chi Shiou Huang - Published as "Chi Shious Huang" | 3/23/2012 | 5/8/2013 |
| Roe 373 | SCS Family Limited Partnership | 3/23/2012 | 5/8/2013 |
| Roe 374 | Thomas P. Sherrill | 3/23/2012 | 5/8/2013 |
| Roe 375 | Rachel M. Sherrill | 3/23/2012 | 5/8/2013 |
| Roe 376 | Patricia C. Simi, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 379 | Columbia M. Stenberg, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 382 | Christopher S. Sun, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 383 | John S. Sun, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 385 | Alyce A Togonotti | 3/23/2012 | 5/8/2013 |
| Roe 389 | USA Golden Land Investment LLC | 3/23/2012 | 5/8/2013 |
| Roe 392 | Roy C. Wang | 3/23/2012 | 5/8/2013 |
| Roe 393 | Lucy B. Wang | 3/23/2012 | 5/8/2013 |
| Roe 394 | Warm Springs Investments Ltd. | 3/23/2012 | 5/8/2013 |
| Roe 398 | West Coast Land Corporation | 3/23/2012 | 5/8/2013 |
| Roe 399 | Laurie S. Whicher | 3/23/2012 | 5/8/2013 |
| Roe 400 | Joyce P. Whiteside, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 401 | Harry Z. Wilson | 3/23/2012 | 5/8/2013 |
| Roe 403 | ABC Diamonds Inc. | 3/23/2012 | 5/8/2013 |
| Roe 404 | Alesso Lawrence V & Mardean Trust | 3/23/2012 | 5/8/2013 |
| Roe 405 | Charles A. Amento | 3/23/2012 | 5/8/2013 |
| Roe 406 | Sheila D. Amento | 3/23/2012 | 5/8/2013 |
| Roe 407 | Sigitas F. Babusis | 3/23/2012 | 5/8/2013 |
| Roe 408 | Banducci Enterprises | 3/23/2012 | 5/8/2013 |
| Roe 409 | Banducci Land, L.L.C. | 3/23/2012 | 5/8/2013 |
| Roe 410 | Janet Starr Berkey | 3/23/2012 | 5/8/2013 |
| Roe 411 | Leslie C. Blenkhorn | 3/23/2012 | 5/8/2013 |
| Roe 412 | Cherilyn M. Blenkhorn | 3/23/2012 | 5/8/2013 |
| Roe 414 | Mark F. Bramlett | 3/23/2012 | 5/8/2013 |
| Roe 422 | Sallie Lynne Chatterton | 3/23/2012 | 5/8/2013 |
| Roe 423 | Michael C. Cheiky | 3/23/2012 | 5/8/2013 |
| Roe 424 | Charity S. Cheiky | 3/23/2012 | 5/8/2013 |
| Roe 425 | Chitiea Family Trust | 9/21/2015 | 10/13/2015 |
| Roe 426 | Joel Chitiea | 9/17/2015 | 10/16/2015 |
| Roe 427 | Vivian A. Chitiea | 3/23/2012 | 5/8/2013 |
| Roe 428 | Yong See Cho | 3/23/2012 | 5/8/2013 |
| Roe 429 | CJH Real Properties LLC | 3/23/2012 | 5/8/2013 |
| Roe 431 | William Cordova | 3/23/2012 | 5/8/2013 |
| Roe 432 | Virginia C. Cordova | 3/23/2012 | 5/8/2013 |
| Roe 433 | Eric M Coyle | 3/23/2012 | 5/8/2013 |
| Roe 434 | CPH Rosamond LP | 3/23/2012 | 5/8/2013 |
| Roe 435 | Susan Elise Simonelli Crockett | 3/23/2012 | 5/8/2013 |
| Roe 438 | Jeannette Damron | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 439 | De Pietro Limited | 3/23/2012 | 5/8/2013 |
| Roe 441 | Dora Land | 3/23/2012 | 5/8/2013 |
| Roe 442 | Duncan M.B. Separate Prop Trust | 3/23/2012 | 5/8/2013 |
| Roe 443 | Carol A. Durst, Trustee | 3/23/2012 | 5/8/2013 |
| Roe 444 | Eagle Meadows of No Edwards 435 LLC | 3/23/2012 | 5/8/2013 |
| Roe 445 | East Kern Prop LLC | 3/23/2012 | 5/8/2013 |
| Roe 446 | East West Land Invs. Inc. | 3/23/2012 | 5/8/2013 |
| Roe 447 | George M. Eastley | 9/17/2015 | 10/16/2015 |
| Roe 449 | Sammy L. Edwards | 3/23/2012 | 5/8/2013 |
| Roe 450 | Linda D. Edwards | 3/23/2012 | 5/8/2013 |
| Roe 454 | Nancy H Evans | 3/23/2012 | 5/8/2013 |
| Roe 459 | Farm Estates of the World | 3/23/2012 | 5/8/2013 |
| Roe 460 | Fernandez Family Liv Trust | 3/23/2012 | 5/8/2013 |
| Roe 462 | Fischer Grandchildrens Trust | 3/23/2012 | 5/8/2013 |
| Roe 463 | Fogler, Ronald & Irene P. Trust | 3/23/2012 | 5/8/2013 |
| Roe 468 | Mansoor Ghaneeian and Fariba Ghaneeian Trust | 3/23/2012 | 5/8/2013 |
| Roe 469 | Gill Family Trust 1999 | 3/23/2012 | 5/8/2013 |
| Roe 470 | Gleason Trust | 3/23/2012 | 5/8/2013 |
| Roe 471 | Gold Sky Prop. LLC | 3/23/2012 | 5/8/2013 |
| Roe 473 | Guerrant Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 474 | Jose Guzman | 3/23/2012 | 5/8/2013 |
| Roe 475 | Norma Guzman | 3/23/2012 | 5/8/2013 |
| Roe 478 | Mary Lou Byerly Harrell | 3/23/2012 | 5/8/2013 |
| Roe 481 | Sam Haskins Trust | 3/23/2012 | 5/8/2013 |
| Roe 482 | Bob D. Helton Living Trust | 3/23/2012 | 5/8/2013 |
| Roe 483 | Herrmann Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 484 | HET 2440 LLC | 3/23/2012 | 5/8/2013 |
| Roe 485 | Susan B. Hills Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 486 | Ho Giang | 3/23/2012 | 5/8/2013 |
| Roe 487 | Mylinh Phan | 3/23/2012 | 5/8/2013 |
| Roe 488 | Jennifer Chang Ho Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 489 | Fela Holzman | 9/17/2015 | 10/16/2015 |
| Roe 490 | Jerome I. Holzman | 9/17/2015 | 10/16/2015 |
| Roe 491 | H.J. Holzman | 9/17/2015 | 10/16/2015 |
| Roe 492 | Horizon Sumitt LLC | 3/23/2012 | 5/8/2013 |
| Roe 493 | James T Hsu | 3/23/2012 | 5/8/2013 |
| Roe 494 | H Huffnagle | 3/23/2012 | 5/8/2013 |
| Roe 495 | Maynard R Huffnagle | 3/23/2012 | 5/8/2013 |
| Roe 498 | Iglesia De Dio Pentecostla Mi | 3/23/2012 | 5/8/2013 |
| Roe 499 | Invescorp Ltd | 3/23/2012 | 5/8/2013 |
| Roe 503 | Javid Investments, L.L.C. | 3/23/2012 | 5/8/2013 |
| Roe 504 | Emma Lou Johnson | 3/23/2012 | 5/8/2013 |
| Roe 505 | Annette F. Kam | 3/23/2012 | 5/8/2013 |
| Roe 509 | Richard M. & Sandra A Lang Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 512 | Daniel Bronston Leroy | 3/23/2012 | 5/8/2013 |
| Roe 513 | Mary Ann Lewis | 3/23/2012 | 5/8/2013 |
| Roe 514 | Lien Family Survivors Trust | 3/23/2012 | 5/8/2013 |
| Roe 515 | Christine Lin | 3/23/2012 | 5/8/2013 |
| Roe 516 | Los Angeles Land Investment | 3/23/2012 | 5/8/2013 |
| Roe 517 | Loyola Marymount University | 3/23/2012 | 5/8/2013 |
| Roe 518 | Clark C Lu | 3/23/2012 | 5/8/2013 |
| Roe 519 | Danny C Lu | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 520 | Douglas R. McAvoy and Amy M. McAvoy Trust | 3/23/2012 | 5/8/2013 |
| Roe 521 | Roberta Merry Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 522 | Hans Peter Meyer | 3/23/2012 | 5/8/2013 |
| Roe 523 | Ipbi Kim Meyer | 3/23/2012 | 5/8/2013 |
| Roe 525 | S Huth-Tanner | 3/23/2012 | 5/8/2013 |
| Roe 526 | Jamie Miller | 3/23/2012 | 5/8/2013 |
| Roe 527 | Mojave & Tropico LLC | 3/23/2012 | 5/8/2013 |
| Roe 530 | Elaine L. Morales | 3/23/2012 | 5/8/2013 |
| Roe 531 | Mary B Mower | 3/23/2012 | 5/8/2013 |
| Roe 533 | Louise Nichols | 9/17/2015 | 10/16/2015 |
| Roe 535 | Joan D. Perkolup | 9/17/2015 | 10/16/2015 |
| Roe 536 | Florence A. Perkolup | 9/17/2015 | 10/16/2015 |
| Roe 537 | Fred Piwenitzky | 3/23/2012 | 5/8/2013 |
| Roe 538 | Sachiko Piwenitzky | 3/23/2012 | 5/8/2013 |
| Roe 539 | Pledge Investment LLC | 3/23/2012 | 5/8/2013 |
| Roe 540 | Lulu Edna Pollock | 3/23/2012 | 5/8/2013 |
| Roe 541 | Popinjay Corp. N V | 3/23/2012 | 5/8/2013 |
| Roe 542 | Donald L. Purviance | 3/23/2012 | 5/8/2013 |
| Roe 544 | Ronald A Ralphs | 3/23/2012 | 5/8/2013 |
| Roe 545 | Ramos Trust | 3/23/2012 | 5/8/2013 |
| Roe 547 | Edgar Reinoso | 3/23/2012 | 5/8/2013 |
| Roe 551 | Lori March Scourby | 3/23/2012 | 5/8/2013 |
| Roe 552 | Sellsite & United LLC | 3/23/2012 | 5/8/2013 |
| Roe 554 | SF Pacific Properties Inc | 3/23/2012 | 5/8/2013 |
| Roe 557 | Theodore H Sims, Jr. | 3/23/2012 | 5/8/2013 |
| Roe 559 | Mi R Song | 3/23/2012 | 5/8/2013 |
| Roe 560 | John Stern and Eleanor Stern Trust | 3/23/2012 | 5/8/2013 |
| Roe 561 | Helen H. Stookey | 3/23/2012 | 5/8/2013 |
| Roe 563 | John Su | 3/23/2012 | 5/8/2013 |
| Roe 564 | Chen Su | 3/23/2012 | 5/8/2013 |
| Roe 565 | Supermed Health Inc. | 3/23/2012 | 5/8/2013 |
| Roe 566 | Sylvan Vista Development Co. | 3/23/2012 | 5/8/2013 |
| Roe 567 | Tamkin Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 569 | Tazman, A Limited Liability Company | 3/23/2012 | 5/8/2013 |
| Roe 571 | United Customhouse Brokers Inc. | 3/23/2012 | 5/8/2013 |
| Roe 574 | Francom G. Watson, Jr. | 3/23/2012 | 5/8/2013 |
| Roe 575 | A. Watson | 3/23/2012 | 5/8/2013 |
| Roe 576 | Wells Fargo Bank NA | 3/23/2012 | 5/8/2013 |
| Roe 577 | Richard A. White and Valerie K. White Trust | 3/23/2012 | 5/8/2013 |
| Roe 578 | Wood Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 580 | Yeh Vivian Hwa | 3/23/2012 | 5/8/2013 |
| Roe 581 | Lincoln Chu Kuen Yung | 3/23/2012 | 5/8/2013 |
| Roe 583 | American Landmark Group LLC | 3/23/2012 | 5/8/2013 |
| Roe 585 | 190th Avenue West, LLC | 3/23/2012 | 5/8/2013 |
| Roe 589 | John S. Alesso Jr. | 9/17/2015 | 10/16/2015 |
| Roe 596 | Karla Bushnell | 3/23/2012 | 5/8/2013 |
| Roe 597 | David Bushnell | 3/23/2012 | 5/8/2013 |
| Roe 601 | Dorothy Etta Delia | 3/23/2012 | 5/8/2013 |
| Roe 602 | John P Rusk | 3/23/2012 | 5/8/2013 |
| Roe 603 | EPIC | 3/23/2012 | 5/8/2013 |
| Roe 604 | Smith Development Co. | 3/23/2012 | 5/8/2013 |
| Roe 606 | Hamid Ameri | 3/23/2012 | 5/8/2013 |
| Roe 607 | Lutz Issleib | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 609 | Erlinda Koo | 3/23/2012 | 5/8/2013 |
| Roe 610 | Twyla Lake | 3/23/2012 | 5/8/2013 |
| Roe 612 | Frank A Lane | 3/23/2012 | 5/8/2013 |
| Roe 613 | High Desert Investments LLC. | 3/23/2012 | 5/8/2013 |
| Roe 614 | Sol LeShin | 3/23/2012 | 5/8/2013 |
| Roe 615 | Carl Proctor Jr. | 3/23/2012 | 5/8/2013 |
| Roe 616 | Qwest Engineering Inc. | 3/23/2012 | 5/8/2013 |
| Roe 617 | Retlaw Enterprises LLC | 3/23/2012 | 5/8/2013 |
| Roe 619 | Robert A. Stoner Properties | 3/23/2012 | 5/8/2013 |
| Roe 620 | Ronald H. Carter/Audrey M. Carter Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 621 | Clarence E Shetler | 3/23/2012 | 5/8/2013 |
| Roe 625 | 1st and 41st West LLC | 3/23/2012 | 5/8/2013 |
| Roe 626 | 20th Street Properties | 3/23/2012 | 5/8/2013 |
| Roe 629 | Mehran Abolmoluki | 3/23/2012 | 5/8/2013 |
| Roe 630 | Antonio Acosta | 3/23/2012 | 5/8/2013 |
| Roe 631 | Miriam Adams | 3/23/2012 | 5/8/2013 |
| Roe 632 | Arnold Adicoff | 3/23/2012 | 5/8/2013 |
| Roe 633 | James Agalsoff | 3/23/2012 | 5/8/2013 |
| Roe 635 | Carlito Aguilar | 3/23/2012 | 5/8/2013 |
| Roe 636 | Carmen Aguilar | 3/23/2012 | 5/8/2013 |
| Roe 638 | Valentin Aguilar | 3/23/2012 | 5/8/2013 |
| Roe 639 | Yolanda Aguilar | 3/23/2012 | 5/8/2013 |
| Roe 641 | Martha Akin | 3/23/2012 | 5/8/2013 |
| Roe 642 | Jack Albright | 3/23/2012 | 5/8/2013 |
| Roe 644 | Casey Alesso | 3/23/2012 | 5/8/2013 |
| Roe 645 | Donald Alexander | 3/23/2012 | 5/8/2013 |
| Roe 647 | Betty Allen | 3/23/2012 | 5/8/2013 |
| Roe 648 | Brunette Allen | 3/23/2012 | 5/8/2013 |
| Roe 649 | George Allen | 3/23/2012 | 5/8/2013 |
| Roe 650 | Guadalupe Allen | 3/23/2012 | 5/8/2013 |
| Roe 651 | Ronald Allen | 3/23/2012 | 5/8/2013 |
| Roe 652 | Paul Allison | 3/23/2012 | 5/8/2013 |
| Roe 653 | Yvonne Allison | 3/23/2012 | 5/8/2013 |
| Roe 654 | Deborah Alluis | 3/23/2012 | 5/8/2013 |
| Roe 655 | Jack Alluis | 3/23/2012 | 5/8/2013 |
| Roe 656 | Mary Almarez | 3/23/2012 | 5/8/2013 |
| Roe 657 | Jorge Alonso | 3/23/2012 | 5/8/2013 |
| Roe 658 | Laura Alonso | 3/23/2012 | 5/8/2013 |
| Roe 659 | ALP Equipment Sales Inc | 3/23/2012 | 5/8/2013 |
| Roe 660 | Felipe Alvarez | 3/23/2012 | 5/8/2013 |
| Roe 661 | Roberto Alvarez | 3/23/2012 | 5/8/2013 |
| Roe 663 | Mary Alvidrez | 3/23/2012 | 5/8/2013 |
| Roe 664 | Richard Alvidrez | 3/23/2012 | 5/8/2013 |
| Roe 666 | An Van Phan Tr | 3/23/2012 | 5/8/2013 |
| Roe 667 | Beatrice Anderson | 3/23/2012 | 5/8/2013 |
| Roe 670 | Renee Anderson | 3/23/2012 | 5/8/2013 |
| Roe 671 | Franklin Andrews | 3/23/2012 | 5/8/2013 |
| Roe 672 | Treba Andrews | 3/23/2012 | 5/8/2013 |
| Roe 674 | Sharon Annis | 3/23/2012 | 5/8/2013 |
| Roe 676 | Antelope Valley Allied Arts Assn | 3/23/2012 | 5/8/2013 |
| Roe 677 | Antelope Valley Florist Inc | 3/23/2012 | 5/8/2013 |
| Roe 684 | Keiko Aoki | 3/23/2012 | 5/8/2013 |
| Roe 685 | Jovencio Apostol | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 686 | Frances Appleby | 3/23/2012 | 5/8/2013 |
| Roe 687 | Thomas Appleby | 3/23/2012 | 5/8/2013 |
| Roe 689 | Benedicto Arevalo | 3/23/2012 | 5/8/2013 |
| Roe 690 | Nora Arevalo | 3/23/2012 | 5/8/2013 |
| Roe 693 | Florence Arnold | 3/23/2012 | 5/8/2013 |
| Roe 694 | Lucita Arquileta | 3/23/2012 | 5/8/2013 |
| Roe 695 | Rufino Arquileta | 3/23/2012 | 5/8/2013 |
| Roe 697 | Arroyo Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 698 | Patricia Artigas | 3/23/2012 | 5/8/2013 |
| Roe 699 | Noboru Asato | 3/23/2012 | 5/8/2013 |
| Roe 700 | Jesus Ascencio | 3/23/2012 | 5/8/2013 |
| Roe 701 | Aliza Asher | 3/23/2012 | 5/8/2013 |
| Roe 702 | Shaul Asher | 3/23/2012 | 5/8/2013 |
| Roe 705 | Gerard Auyong | 3/23/2012 | 5/8/2013 |
| Roe 706 | Jane Aveni | 3/23/2012 | 5/8/2013 |
| Roe 707 | Lloyd Avery | 3/23/2012 | 5/8/2013 |
| Roe 708 | Alan Avrick | 3/23/2012 | 5/8/2013 |
| Roe 711 | Jack Baerlein | 3/23/2012 | 5/8/2013 |
| Roe 716 | Maria Balice | 3/23/2012 | 5/8/2013 |
| Roe 718 | Emiliano Ballesteros | 3/23/2012 | 5/8/2013 |
| Roe 719 | Rafael Banales | 3/23/2012 | 5/8/2013 |
| Roe 720 | Bernardo Banuelos | 3/23/2012 | 5/8/2013 |
| Roe 721 | Rosario Banuelos | 3/23/2012 | 5/8/2013 |
| Roe 723 | Ron Banuk | 3/23/2012 | 5/8/2013 |
| Roe 725 | Irene Barbeau | 3/23/2012 | 5/8/2013 |
| Roe 726 | Ann Barnes | 3/23/2012 | 5/8/2013 |
| Roe 727 | Wayne Barnes | 3/23/2012 | 5/8/2013 |
| Roe 728 | Terri Baron | 3/23/2012 | 5/8/2013 |
| Roe 729 | Joseph Bartfay | 3/23/2012 | 5/8/2013 |
| Roe 730 | Selma Bartfay | 3/23/2012 | 5/8/2013 |
| Roe 731 | Basrock Woodcreek Gardens | 3/23/2012 | 5/8/2013 |
| Roe 732 | Francisco Batino | 9/21/2015 | 10/13/2015 |
| Roe 733 | Nancy Bauer | 3/23/2012 | 5/8/2013 |
| Roe 734 | A Beasley | 3/23/2012 | 5/8/2013 |
| Roe 735 | Teresa Becarra | 3/23/2012 | 5/8/2013 |
| Roe 737 | Ikuko Becker | 3/23/2012 | 5/8/2013 |
| Roe 738 | James Becker | 3/23/2012 | 5/8/2013 |
| Roe 739 | Betty Bederio | 3/23/2012 | 5/8/2013 |
| Roe 740 | Beatriz Belisario | 3/23/2012 | 5/8/2013 |
| Roe 741 | Luis Belisario | 3/23/2012 | 5/8/2013 |
| Roe 742 | Bell Tr | 3/23/2012 | 5/8/2013 |
| Roe 743 | Beverly Bellanca | 3/23/2012 | 5/8/2013 |
| Roe 744 | Cecilia Beltran | 3/23/2012 | 5/8/2013 |
| Roe 745 | Victoria Benner | 3/23/2012 | 5/8/2013 |
| Roe 746 | Bensky Living Trust | 3/23/2012 | 5/8/2013 |
| Roe 748 | Nancy Benz | 3/23/2012 | 5/8/2013 |
| Roe 750 | Gaylyn Berglund | 3/23/2012 | 5/8/2013 |
| Roe 751 | Kenneth Berglund | 3/23/2012 | 5/8/2013 |
| Roe 752 | Amante Bermundo | 3/23/2012 | 5/8/2013 |
| Roe 754 | Ary Biers | 3/23/2012 | 5/8/2013 |
| Roe 755 | Robert Biers | 3/23/2012 | 5/8/2013 |
| Roe 756 | Sylvia Bigornia | 3/23/2012 | 5/8/2013 |
| Roe 758 | Alfons Bimbiris | 3/23/2012 | 5/8/2013 |
| Roe 759 | Vera Bimbiris | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 760 | Melvin Bittner | 3/23/2012 | 5/8/2013 |
| Roe 763 | Catherine Black | 3/23/2012 | 5/8/2013 |
| Roe 764 | Anita Blanchard | 3/23/2012 | 5/8/2013 |
| Roe 767 | Betty Bliley | 3/23/2012 | 5/8/2013 |
| Roe 768 | Eugene Bliley | 3/23/2012 | 5/8/2013 |
| Roe 770 | Jose Bocanegra | 3/23/2012 | 5/8/2013 |
| Roe 771 | James Bodkin | 3/23/2012 | 5/8/2013 |
| Roe 772 | Frank Bodolai | 3/23/2012 | 5/8/2013 |
| Roe 773 | Magdalena Bodolai | 3/23/2012 | 5/8/2013 |
| Roe 775 | Minh Bosque | 3/23/2012 | 5/8/2013 |
| Roe 776 | Gayle Bovee | 3/23/2012 | 5/8/2013 |
| Roe 777 | Vicki Bovee | 3/23/2012 | 5/8/2013 |
| Roe 778 | Donna Boyer | 3/23/2012 | 5/8/2013 |
| Roe 781 | BPP Valley Central | 3/23/2012 | 5/8/2013 |
| Roe 784 | Bradley Family Tr | 3/23/2012 | 5/8/2013 |
| Roe 785 | Dennis Braly | 3/23/2012 | 5/8/2013 |
| Roe 787 | Brasel Family Tr | 3/23/2012 | 5/8/2013 |
| Roe 788 | Flora Braun | 3/23/2012 | 5/8/2013 |
| Roe 789 | Joe Brewer | 3/23/2012 | 5/8/2013 |
| Roe 794 | Patricia Brooks | 3/23/2012 | 5/8/2013 |
| Roe 795 | Mary Brosky | 3/23/2012 | 5/8/2013 |
| Roe 796 | Vera Brown | 3/23/2012 | 5/8/2013 |
| Roe 797 | Evelyn Bruno | 3/23/2012 | 5/8/2013 |
| Roe 798 | Thomas Bryk | 3/23/2012 | 5/8/2013 |
| Roe 799 | Eugene Buckley | 3/23/2012 | 5/8/2013 |
| Roe 800 | Jeanne Buckley | 3/23/2012 | 5/8/2013 |
| Roe 801 | Philip Bucknor | 3/23/2012 | 5/8/2013 |
| Roe 802 | Donald Buhrmann | 3/23/2012 | 5/8/2013 |
| Roe 803 | June Buhrmann | 3/23/2012 | 5/8/2013 |
| Roe 804 | Washington Bumanglag | 3/23/2012 | 5/8/2013 |
| Roe 805 | Walter Bunch | 3/23/2012 | 5/8/2013 |
| Roe 807 | Karen Burgess | 3/23/2012 | 5/8/2013 |
| Roe 808 | Randy Burgess | 3/23/2012 | 5/8/2013 |
| Roe 809 | Raymond Burns | 3/23/2012 | 5/8/2013 |
| Roe 810 | Doretha Burrell | 3/23/2012 | 5/8/2013 |
| Roe 814 | Buytkus Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 815 | Daniel Byrne | 3/23/2012 | 5/8/2013 |
| Roe 816 | David Byrne | 3/23/2012 | 5/8/2013 |
| Roe 820 | Belva Caldwell | 3/23/2012 | 5/8/2013 |
| Roe 824 | Marvin Calmeson | 3/23/2012 | 5/8/2013 |
| Roe 825 | Herminia Camacho | 3/23/2012 | 5/8/2013 |
| Roe 826 | Julian Camacho | 3/23/2012 | 5/8/2013 |
| Roe 827 | Ricardo Camarena | 3/23/2012 | 5/8/2013 |
| Roe 828 | Cambridge Homes, Inc. | 3/23/2012 | 5/8/2013 |
| Roe 829 | Bonnie Cameron | 3/23/2012 | 5/8/2013 |
| Roe 830 | James Cameron | 3/23/2012 | 5/8/2013 |
| Roe 832 | Erika Campbell | 3/23/2012 | 5/8/2013 |
| Roe 837 | Lynda Capel | 3/23/2012 | 5/8/2013 |
| Roe 839 | Barbara Carey | 3/23/2012 | 5/8/2013 |
| Roe 840 | Donald Carey | 3/23/2012 | 5/8/2013 |
| Roe 841 | Ernest Caringi | 3/23/2012 | 5/8/2013 |
| Roe 842 | Violet Carlisle | 3/23/2012 | 5/8/2013 |
| Roe 843 | Timothy Carney | 3/23/2012 | 5/8/2013 |
| Roe 844 | Rosendo Carranza | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 847 | Toribio Carrasco | 3/23/2012 | 5/8/2013 |
| Roe 848 | Irene Carroll | 3/23/2012 | 5/8/2013 |
| Roe 849 | James Carroll | 3/23/2012 | 5/8/2013 |
| Roe 850 | Bera Carruthers | 3/23/2012 | 5/8/2013 |
| Roe 851 | James B Caskey | 3/23/2012 | 5/8/2013 |
| Roe 852 | Ruby J Caskey | 3/23/2012 | 5/8/2013 |
| Roe 853 | Eugenia Carter | 3/23/2012 | 5/8/2013 |
| Roe 855 | Terry Carter | 3/23/2012 | 5/8/2013 |
| Roe 856 | Gary Castelan | 3/23/2012 | 5/8/2013 |
| Roe 857 | Sharon Castelan | 3/23/2012 | 5/8/2013 |
| Roe 861 | Jose Castillo | 3/23/2012 | 5/8/2013 |
| Roe 862 | Remedios Castillo | 3/23/2012 | 5/8/2013 |
| Roe 864 | Robert & Norma Caudle | 3/23/2012 | 5/8/2013 |
| Roe 865 | Aurelia Cayetano | 3/23/2012 | 5/8/2013 |
| Roe 866 | Edgardo Cayetano | 3/23/2012 | 5/8/2013 |
| Roe 867 | Julia Cecil | 3/23/2012 | 5/8/2013 |
| Roe 868 | Ken Cecil | 3/23/2012 | 5/8/2013 |
| Roe 869 | Gilbert Ceniceros | 3/23/2012 | 5/8/2013 |
| Roe 870 | Edward Cernicky | 3/23/2012 | 5/8/2013 |
| Roe 871 | Florence Cernicky | 3/23/2012 | 5/8/2013 |
| Roe 872 | Marc Chachuat | 3/23/2012 | 5/8/2013 |
| Roe 873 | Sukhdev Chahal | 3/23/2012 | 5/8/2013 |
| Roe 877 | Siu Chan | 3/23/2012 | 5/8/2013 |
| Roe 878 | Beverly Chandler | 3/23/2012 | 5/8/2013 |
| Roe 879 | Burton Chandler | 3/23/2012 | 5/8/2013 |
| Roe 880 | Moon Chang | 9/17/2015 | 10/16/2015 |
| Roe 881 | Py Chao | 3/23/2012 | 5/8/2013 |
| Roe 883 | Christopher Cheung | 3/23/2012 | 5/8/2013 |
| Roe 886 | Hu Chi Yu | 3/23/2012 | 5/8/2013 |
| Roe 887 | Chou Chiang | 3/23/2012 | 5/8/2013 |
| Roe 888 | Tim Chiu | 3/23/2012 | 5/8/2013 |
| Roe 889 | Mi Choe | 3/23/2012 | 5/8/2013 |
| Roe 890 | Pyong Choe | 3/23/2012 | 5/8/2013 |
| Roe 891 | Kenneth Choi | 3/23/2012 | 5/8/2013 |
| Roe 892 | Edwin Chong | 3/23/2012 | 5/8/2013 |
| Roe 894 | Boniface Choy | 3/23/2012 | 5/8/2013 |
| Roe 898 | John Christie | 3/23/2012 | 5/8/2013 |
| Roe 900 | Ardathe Christopher | 3/23/2012 | 5/8/2013 |
| Roe 901 | Daphne Chu | 3/23/2012 | 5/8/2013 |
| Roe 905 | Fred Chung | 3/23/2012 | 5/8/2013 |
| Roe 906 | Gabrielle Chung | 3/23/2012 | 5/8/2013 |
| Roe 907 | John Cinfio | 3/23/2012 | 5/8/2013 |
| Roe 908 | James Cipollone | 3/23/2012 | 5/8/2013 |
| Roe 909 | Richard Clark | 3/23/2012 | 5/8/2013 |
| Roe 911 | Russell Clawson | 3/23/2012 | 5/8/2013 |
| Roe 912 | Gail Clutter | 3/23/2012 | 5/8/2013 |
| Roe 913 | Ralph Clutter | 3/23/2012 | 5/8/2013 |
| Roe 914 | Lap Co | 3/23/2012 | 5/8/2013 |
| Roe 916 | Marc Cole | 3/23/2012 | 5/8/2013 |
| Roe 918 | William Collicutt | 3/23/2012 | 5/8/2013 |
| Roe 919 | Beatrice Collins | 3/23/2012 | 5/8/2013 |
| Roe 921 | Charles Colton | 3/23/2012 | 5/8/2013 |
| Roe 922 | Larry Connelly | 3/23/2012 | 5/8/2013 |
| Roe 923 | Leo Connelly | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 925 | Alan Cook | 3/23/2012 | 5/8/2013 |
| Roe 926 | Regina Cooley | 3/23/2012 | 5/8/2013 |
| Roe 927 | Denise Cope | 3/23/2012 | 5/8/2013 |
| Roe 928 | Thomas Cope | 3/23/2012 | 5/8/2013 |
| Roe 929 | Ruby Corder | 3/23/2012 | 5/8/2013 |
| Roe 930 | Alfredo Corrales | 3/23/2012 | 5/8/2013 |
| Roe 932 | Calvin Cox | 3/23/2012 | 5/8/2013 |
| Roe 935 | Ronald Cronk | 3/23/2012 | 5/8/2013 |
| Roe 937 | Cora Cruz | 3/23/2012 | 5/8/2013 |
| Roe 938 | Felina Cruz | 3/23/2012 | 5/8/2013 |
| Roe 939 | Nicasio Cruz | 3/23/2012 | 5/8/2013 |
| Roe 940 | Roger Cruz | 3/23/2012 | 5/8/2013 |
| Roe 941 | Mike Culha | 3/23/2012 | 5/8/2013 |
| Roe 944 | Florin D Souza | 3/23/2012 | 5/8/2013 |
| Roe 945 | Anita Dacles | 3/23/2012 | 5/8/2013 |
| Roe 946 | Simplicio Dacles | 3/23/2012 | 5/8/2013 |
| Roe 949 | Helga Dalley | 3/23/2012 | 5/8/2013 |
| Roe 950 | Manfred Dalley | 3/23/2012 | 5/8/2013 |
| Roe 956 | Mohammad Daood | 3/23/2012 | 5/8/2013 |
| Roe 957 | Saleem Daood | 3/23/2012 | 5/8/2013 |
| Roe 958 | Adib Daoud | 3/23/2012 | 5/8/2013 |
| Roe 959 | Donna Daugherty | 3/23/2012 | 5/8/2013 |
| Roe 960 | Anita Davalos | 3/23/2012 | 5/8/2013 |
| Roe 961 | Dominador Davalos | 3/23/2012 | 5/8/2013 |
| Roe 962 | Alfred David | 3/23/2012 | 5/8/2013 |
| Roe 965 | Douglas Davis | 3/23/2012 | 5/8/2013 |
| Roe 966 | James Davis | 3/23/2012 | 5/8/2013 |
| Roe 968 | Davis Sibs Inc | 3/23/2012 | 5/8/2013 |
| Roe 977 | Sefey Debotoun | 3/23/2012 | 5/8/2013 |
| Roe 978 | Angelito Dedios | 3/23/2012 | 5/8/2013 |
| Roe 979 | Bruno Deluca | 3/23/2012 | 5/8/2013 |
| Roe 981 | Olin Derrick | 3/23/2012 | 5/8/2013 |
| Roe 982 | Deneen Deschene | 3/23/2012 | 5/8/2013 |
| Roe 983 | Desert Lake L P | 3/23/2012 | 5/8/2013 |
| Roe 984 | Juan Diaz | 3/23/2012 | 5/8/2013 |
| Roe 987 | Gary Dicks | 3/23/2012 | 5/8/2013 |
| Roe 988 | Nick Digiulio | 3/23/2012 | 5/8/2013 |
| Roe 989 | Richard Dioli | 3/23/2012 | 5/8/2013 |
| Roe 990 | Lonzo Dixon | 3/23/2012 | 5/8/2013 |
| Roe 991 | Mae Dixon | 3/23/2012 | 5/8/2013 |
| Roe 992 | Adelaida Dizon | 3/23/2012 | 5/8/2013 |
| Roe 994 | Esteban Donis | 3/23/2012 | 5/8/2013 |
| Roe 995 | Mauro Donis | 3/23/2012 | 5/8/2013 |
| Roe 996 | Rosalina Donis | 3/23/2012 | 5/8/2013 |
| Roe 997 | Virginia Donis | 3/23/2012 | 5/8/2013 |
| Roe 999 | Michael Douglas | 3/23/2012 | 5/8/2013 |
| Roe 1000 | Katherine Douglass | 3/23/2012 | 5/8/2013 |
| Roe 1001 | Borom Douk | 3/23/2012 | 5/8/2013 |
| Roe 1002 | S&B Douk | 3/23/2012 | 5/8/2013 |
| Roe 1003 | Sokhom Douk | 3/23/2012 | 5/8/2013 |
| Roe 1004 | James Downing | 3/23/2012 | 5/8/2013 |
| Roe 1005 | Gary Downs | 3/23/2012 | 5/8/2013 |
| Roe 1006 | Romnia Drever | 3/23/2012 | 5/8/2013 |
| Roe 1009 | Eliseo Dumbrique | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1010 | Cynthia Dunlop | 3/23/2012 | 5/8/2013 |
| Roe 1011 | James Dunn | 3/23/2012 | 5/8/2013 |
| Roe 1012 | Raymond Dunning | 3/23/2012 | 5/8/2013 |
| Roe 1013 | Loc Duong | 3/23/2012 | 5/8/2013 |
| Roe 1014 | Harold Dykstra | 3/23/2012 | 5/8/2013 |
| Roe 1015 | Teresa Dykstra | 3/23/2012 | 5/8/2013 |
| Roe 1016 | Wilbur Dykstra | 3/23/2012 | 5/8/2013 |
| Roe 1017 | Dykstra Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 1018 | E I C Group et al | 3/23/2012 | 5/8/2013 |
| Roe 1019 | Dorothy Earl | 3/23/2012 | 5/8/2013 |
| Roe 1020 | Jack Earl | 3/23/2012 | 5/8/2013 |
| Roe 1021 | David Earwood | 3/23/2012 | 5/8/2013 |
| Roe 1022 | Benjamin Easter | 3/23/2012 | 5/8/2013 |
| Roe 1023 | Joanne Ebert | 3/23/2012 | 5/8/2013 |
| Roe 1024 | David Eckberg | 3/23/2012 | 5/8/2013 |
| Roe 1025 | Paula Eckberg | 3/23/2012 | 5/8/2013 |
| Roe 1026 | Dale Eckles | 3/23/2012 | 5/8/2013 |
| Roe 1027 | Jean Economou | 3/23/2012 | 5/8/2013 |
| Roe 1028 | John Edmonds | 3/23/2012 | 5/8/2013 |
| Roe 1034 | Theodore Elness | 3/23/2012 | 5/8/2013 |
| Roe 1035 | Rosa Elumba | 3/23/2012 | 5/8/2013 |
| Roe 1036 | Zenaida Emms | 3/23/2012 | 5/8/2013 |
| Roe 1037 | Rosario Empert | 3/23/2012 | 5/8/2013 |
| Roe 1039 | Lorin Ensminger | 3/23/2012 | 5/8/2013 |
| Roe 1040 | Catherine Erazim | 3/23/2012 | 5/8/2013 |
| Roe 1041 | Catherine Erazim | 3/23/2012 | 5/8/2013 |
| Roe 1043 | John Escobar | 3/23/2012 | 5/8/2013 |
| Roe 1044 | Rose Esparza | 3/23/2012 | 5/8/2013 |
| Roe 1045 | Filomena Espiritu | 3/23/2012 | 5/8/2013 |
| Roe 1046 | William Espiritu | 3/23/2012 | 5/8/2013 |
| Roe 1047 | Basilio Esquivel | 3/23/2012 | 5/8/2013 |
| Roe 1048 | Irma Koburn as Beneficiary of the Estate of Zelda C Schliske Decd | 3/23/2012 | 5/8/2013 |
| Roe 1049 | Edelmira Estrada | 3/23/2012 | 5/8/2013 |
| Roe 1050 | Hervi Estrada | 3/23/2012 | 5/8/2013 |
| Roe 1053 | Carl Fabrizio | 3/23/2012 | 5/8/2013 |
| Roe 1054 | Fairview Development LLC | 3/23/2012 | 5/8/2013 |
| Roe 1058 | Richard Faria | 3/23/2012 | 5/8/2013 |
| Roe 1060 | Deborah Feliciano | 3/23/2012 | 5/8/2013 |
| Roe 1061 | Denese Felts | 3/23/2012 | 5/8/2013 |
| Roe 1062 | Douglas Felts | 3/23/2012 | 5/8/2013 |
| Roe 1068 | Ruth Fike | 3/23/2012 | 5/8/2013 |
| Roe 1069 | Claudia Finkel | 3/23/2012 | 5/8/2013 |
| Roe 1071 | Mary Fiorito | 3/23/2012 | 5/8/2013 |
| Roe 1073 | Joanne Fletcher | 3/23/2012 | 5/8/2013 |
| Roe 1074 | Gayle Flores | 3/23/2012 | 5/8/2013 |
| Roe 1075 | Maria Flores | 3/23/2012 | 5/8/2013 |
| Roe 1077 | Herbert Floyd | 3/23/2012 | 5/8/2013 |
| Roe 1078 | Larry Fogleman | 3/23/2012 | 5/8/2013 |
| Roe 1079 | Alejandro Fontillas | 3/23/2012 | 5/8/2013 |
| Roe 1080 | John Ford | 3/23/2012 | 5/8/2013 |
| Roe 1082 | Antonia Fowler | 3/23/2012 | 5/8/2013 |
| Roe 1084 | Kevin Frane | 3/23/2012 | 5/8/2013 |
| Roe 1085 | Laurel Frane | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1086 | Stephenie Fredrick | 3/23/2012 | 5/8/2013 |
| Roe 1087 | Esther Friedman | 3/23/2012 | 5/8/2013 |
| Roe 1088 | Joanne Fu | 3/23/2012 | 5/8/2013 |
| Roe 1089 | Yoshi Fujisawa | 3/23/2012 | 5/8/2013 |
| Roe 1090 | Michi Fukumoto | 3/23/2012 | 5/8/2013 |
| Roe 1093 | Jeff Galieti | 3/23/2012 | 5/8/2013 |
| Roe 1094 | Jose Galvez | 3/23/2012 | 5/8/2013 |
| Roe 1095 | Betty Gambone | 3/23/2012 | 5/8/2013 |
| Roe 1099 | Martha Garcia | 3/23/2012 | 5/8/2013 |
| Roe 1101 | Rodolfo Garcia | 3/23/2012 | 5/8/2013 |
| Roe 1103 | Eduardo Garde | 3/23/2012 | 5/8/2013 |
| Roe 1104 | Russellend Garde | 3/23/2012 | 5/8/2013 |
| Roe 1105 | Garde Fmly Rev Tr | 3/23/2012 | 5/8/2013 |
| Roe 1107 | Hung Gee | 3/23/2012 | 5/8/2013 |
| Roe 1111 | Stefan Ghika Budesti | 3/23/2012 | 5/8/2013 |
| Roe 1112 | Paul Giang | 3/23/2012 | 5/8/2013 |
| Roe 1114 | Gilbraltar Homes LLC | 3/23/2012 | 5/8/2013 |
| Roe 1116 | George Gillingham | 3/23/2012 | 5/8/2013 |
| Roe 1117 | Gisele Schroeder Liv Tr | 3/23/2012 | 5/8/2013 |
| Roe 1118 | Drena Glauser | 3/23/2012 | 5/8/2013 |
| Roe 1119 | Gary Glenn | 3/23/2012 | 5/8/2013 |
| Roe 1120 | Paul Glessner | 3/23/2012 | 5/8/2013 |
| Roe 1122 | Benito Gonzales | 3/23/2012 | 5/8/2013 |
| Roe 1123 | Erminio Gonzales | 3/23/2012 | 5/8/2013 |
| Roe 1125 | Quach Gonzales | 3/23/2012 | 5/8/2013 |
| Roe 1126 | Carlos Conzalez | 3/23/2012 | 5/8/2013 |
| Roe 1127 | Frances Gonzalez | 3/23/2012 | 5/8/2013 |
| Roe 1128 | Gloria Gonzalez | 3/23/2012 | 5/8/2013 |
| Roe 1130 | Roque Gonzalez | 3/23/2012 | 5/8/2013 |
| Roe 1131 | Tina Gonzalez | 3/23/2012 | 5/8/2013 |
| Roe 1135 | Vicente Gose | 3/23/2012 | 5/8/2013 |
| Roe 1136 | Christina Goya | 3/23/2012 | 5/8/2013 |
| Roe 1142 | William Grant | 3/23/2012 | 5/8/2013 |
| Roe 1144 | Barbara Green | 3/23/2012 | 5/8/2013 |
| Roe 1145 | Hilda Green | 3/23/2012 | 5/8/2013 |
| Roe 1147 | Donna Greenman | 3/23/2012 | 5/8/2013 |
| Roe 1148 | Pierre Grember | 3/23/2012 | 5/8/2013 |
| Roe 1150 | John Griffin | 3/23/2012 | 5/8/2013 |
| Roe 1154 | Gerald Groff | 3/23/2012 | 5/8/2013 |
| Roe 1155 | Marian Groff | 3/23/2012 | 5/8/2013 |
| Roe 1156 | Lillian Groom | 3/23/2012 | 5/8/2013 |
| Roe 1158 | Marge Groven | 3/23/2012 | 5/8/2013 |
| Roe 1159 | Lucena Guiang | 3/23/2012 | 5/8/2013 |
| Roe 1160 | Cristoval Guillen | 3/23/2012 | 5/8/2013 |
| Roe 1162 | Alvaro Gutierrez | 3/23/2012 | 5/8/2013 |
| Roe 1164 | Santos Gutierrez | 3/23/2012 | 5/8/2013 |
| Roe 1165 | Socorro Gutierrez | 3/23/2012 | 5/8/2013 |
| Roe 1166 | Ovidio Guzman | 3/23/2012 | 5/8/2013 |
| Roe 1167 | Jin Ha | 3/23/2012 | 5/8/2013 |
| Roe 1168 | Young Ha | 3/23/2012 | 5/8/2013 |
| Roe 1170 | Susan Hahn | 3/23/2012 | 5/8/2013 |
| Roe 1171 | Homa Hamidi | 3/23/2012 | 5/8/2013 |
| Roe 1172 | Carrie Hamson | 3/23/2012 | 5/8/2013 |
| Roe 1173 | David Hamson | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1174 | Dean Hanano | 3/23/2012 | 5/8/2013 |
| Roe 1175 | James Hanlon | 3/23/2012 | 5/8/2013 |
| Roe 1176 | James Hanlon | 3/23/2012 | 5/8/2013 |
| Roe 1177 | Harald Hansen | 3/23/2012 | 5/8/2013 |
| Roe 1178 | Christine Hanson | 3/23/2012 | 5/8/2013 |
| Roe 1180 | Willis Hard | 3/23/2012 | 5/8/2013 |
| Roe 1181 | Joseph Harnik | 3/23/2012 | 5/8/2013 |
| Roe 1182 | David Harper | 3/23/2012 | 5/8/2013 |
| Roe 1183 | Diane Harris | 3/23/2012 | 5/8/2013 |
| Roe 1184 | James Harris | 3/23/2012 | 5/8/2013 |
| Roe 1185 | Karen Harris | 3/23/2012 | 5/8/2013 |
| Roe 1186 | Karen Hart | 3/23/2012 | 5/8/2013 |
| Roe 1187 | Harvell Family Tr | 3/23/2012 | 5/8/2013 |
| Roe 1188 | Gary Hathaway | 3/23/2012 | 5/8/2013 |
| Roe 1190 | Donald Haydon | 3/23/2012 | 5/8/2013 |
| Roe 1191 | Fusako Hazama | 3/23/2012 | 5/8/2013 |
| Roe 1192 | Hideo Hazama | 3/23/2012 | 5/8/2013 |
| Roe 1193 | Alice Heggen | 3/23/2012 | 5/8/2013 |
| Roe 1195 | James Hemming | 9/21/2015 | 10/13/2015 |
| Roe 1197 | Corine Henninger | 3/23/2012 | 5/8/2013 |
| Roe 1198 | Antonio Hernandez | 3/23/2012 | 5/8/2013 |
| Roe 1199 | Carol Herr | 3/23/2012 | 5/8/2013 |
| Roe 1200 | Ronald Hetzner | 3/23/2012 | 5/8/2013 |
| Roe 1201 | Geraldine Heynen | 3/23/2012 | 5/8/2013 |
| Roe 1202 | HGJ LLC | 3/23/2012 | 5/8/2013 |
| Roe 1207 | Eric Hillerman | 3/23/2012 | 5/8/2013 |
| Roe 1208 | Marilyn Hinck | 3/23/2012 | 5/8/2013 |
| Roe 1212 | Thong Ho | 3/23/2012 | 5/8/2013 |
| Roe 1214 | Albert Hobayan | 3/23/2012 | 5/8/2013 |
| Roe 1215 | Violeta Hobayan | 3/23/2012 | 5/8/2013 |
| Roe 1216 | Paul Hodges | 3/23/2012 | 5/8/2013 |
| Roe 1217 | Debra Hodsdon | 3/23/2012 | 5/8/2013 |
| Roe 1218 | Steve Hodsdon | 3/23/2012 | 5/8/2013 |
| Roe 1219 | Wilbert E. Decd Est of Hoffman | 3/23/2012 | 5/8/2013 |
| Roe 1220 | Soledad Holguin | 3/23/2012 | 5/8/2013 |
| Roe 1221 | Clarissia Holland | 3/23/2012 | 5/8/2013 |
| Roe 1225 | Linda Homan | 3/23/2012 | 5/8/2013 |
| Roe 1226 | Mathew Homan | 3/23/2012 | 5/8/2013 |
| Roe 1227 | Che Hong | 3/23/2012 | 5/8/2013 |
| Roe 1229 | Khai Hong | 3/23/2012 | 5/8/2013 |
| Roe 1231 | Tony Hong | 3/23/2012 | 5/8/2013 |
| Roe 1232 | Martha Hooper | 3/23/2012 | 5/8/2013 |
| Roe 1233 | Gary Hoover | 3/23/2012 | 5/8/2013 |
| Roe 1234 | Marilyn Hoover | 3/23/2012 | 5/8/2013 |
| Roe 1235 | J Hopper | 3/23/2012 | 5/8/2013 |
| Roe 1240 | William Hoskins | 3/23/2012 | 5/8/2013 |
| Roe 1243 | Janette Hourani | 3/23/2012 | 5/8/2013 |
| Roe 1244 | Leslie Howe | 3/23/2012 | 5/8/2013 |
| Roe 1245 | Hsiaoni Chang | 3/23/2012 | 5/8/2013 |
| Roe 1247 | Marie Hubbard | 3/23/2012 | 5/8/2013 |
| Roe 1248 | Cresencio Huerta | 3/23/2012 | 5/8/2013 |
| Roe 1249 | Romeo Hughes | 3/23/2012 | 5/8/2013 |
| Roe 1251 | Norman Hines | 9/21/2015 | 10/13/2015 |
| Roe 1252 | Robert Hunt | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1256 | Amy Hwang | 3/23/2012 | 5/8/2013 |
| Roe 1258 | Hyun Chul Lee | 3/23/2012 | 5/8/2013 |
| Roe 1259 | Kiyoshi Ige | 3/23/2012 | 5/8/2013 |
| Roe 1260 | Isidro Ignacio | 3/23/2012 | 5/8/2013 |
| Roe 1262 | Veronica Ingersoll | 3/23/2012 | 5/8/2013 |
| Roe 1263 | Martin Ingram | 3/23/2012 | 5/8/2013 |
| Roe 1265 | Pasquale Ioele | 3/23/2012 | 5/8/2013 |
| Roe 1266 | Joy Irish | 3/23/2012 | 5/8/2013 |
| Roe 1267 | Robert Irish | 3/23/2012 | 5/8/2013 |
| Roe 1271 | Fukuyo Twamoto | 3/23/2012 | 5/8/2013 |
| Roe 1274 | Dietra Jackson | 3/23/2012 | 5/8/2013 |
| Roe 1276 | Arnold Jacobsen | 3/23/2012 | 5/8/2013 |
| Roe 1277 | Jagatri L and Xantha Dhawan | 3/23/2012 | 5/8/2013 |
| Roe 1278 | Richard James | 3/23/2012 | 5/8/2013 |
| Roe 1279 | David Jauregui | 3/23/2012 | 5/8/2013 |
| Roe 1280 | Isaura Jauregui | 3/23/2012 | 5/8/2013 |
| Roe 1283 | Enid Jeffrey | 3/23/2012 | 5/8/2013 |
| Roe 1286 | Bobby Jennings | 3/23/2012 | 5/8/2013 |
| Roe 1287 | Patricia Jennings | 3/23/2012 | 5/8/2013 |
| Roe 1289 | Enrique Jimenez | 3/23/2012 | 5/8/2013 |
| Roe 1291 | Henry Johnson | 3/23/2012 | 5/8/2013 |
| Roe 1294 | Betty Jones | 3/23/2012 | 5/8/2013 |
| Roe 1295 | Christine Jones | 3/23/2012 | 5/8/2013 |
| Roe 1296 | David Jones | 3/23/2012 | 5/8/2013 |
| Roe 1297 | Esther Jones | 3/23/2012 | 5/8/2013 |
| Roe 1298 | Harold Jones | 3/23/2012 | 5/8/2013 |
| Roe 1301 | Morton Juhl | 3/23/2012 | 5/8/2013 |
| Roe 1302 | K A Investment Co LLC | 3/23/2012 | 5/8/2013 |
| Roe 1303 | Isako Kagehiro | 3/23/2012 | 5/8/2013 |
| Roe 1304 | Kenichi Kagehiro | 3/23/2012 | 5/8/2013 |
| Roe 1305 | Mitsue Kanamori | 3/23/2012 | 5/8/2013 |
| Roe 1307 | Katsuko Kariya | 3/23/2012 | 5/8/2013 |
| Roe 1308 | Katsumi Kariya | 3/23/2012 | 5/8/2013 |
| Roe 1309 | Nicholas Karthas | 3/23/2012 | 5/8/2013 |
| Roe 1310 | Colleen Kasper | 3/23/2012 | 5/8/2013 |
| Roe 1311 | Gordon Katsion | 3/23/2012 | 5/8/2013 |
| Roe 1312 | Kaufler Trust | 3/23/2012 | 5/8/2013 |
| Roe 1313 | Wayne Kawamoto | 3/23/2012 | 5/8/2013 |
| Roe 1314 | Nancy Kawamura | 3/23/2012 | 5/8/2013 |
| Roe 1315 | Yasuko Kawamura | 3/23/2012 | 5/8/2013 |
| Roe 1316 | Keast Fmly Tr | 3/23/2012 | 5/8/2013 |
| Roe 1317 | Keck Fmly Tr | 3/23/2012 | 5/8/2013 |
| Roe 1319 | Arpineh Keklikian | 3/23/2012 | 5/8/2013 |
| Roe 1320 | Missak Keklikian | 3/23/2012 | 5/8/2013 |
| Roe 1321 | Marie Kendrick | 3/23/2012 | 5/8/2013 |
| Roe 1324 | Joel Kettenring | 3/23/2012 | 5/8/2013 |
| Roe 1325 | Pauline Kettenring | 3/23/2012 | 5/8/2013 |
| Roe 1326 | Harriet Kettles | 3/23/2012 | 5/8/2013 |
| Roe 1327 | Sandra Key | 3/23/2012 | 5/8/2013 |
| Roe 1331 | Fadi Khater | 3/23/2012 | 5/8/2013 |
| Roe 1332 | Lorna Kila | 3/23/2012 | 5/8/2013 |
| Roe 1334 | Soo Kim | 3/23/2012 | 5/8/2013 |
| Roe 1337 | Carol Kinat | 3/23/2012 | 5/8/2013 |
| Roe 1338 | Chun King | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1339 | William King | 3/23/2012 | 5/8/2013 |
| Roe 1341 | Freda Kirkland | 3/23/2012 | 5/8/2013 |
| Roe 1345 | Howard Klekar | 3/23/2012 | 5/8/2013 |
| Roe 1346 | Frank Klojda | 3/23/2012 | 5/8/2013 |
| Roe 1348 | Irene Knapp | 3/23/2012 | 5/8/2013 |
| Roe 1349 | Kobayashi Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 1351 | Josephine Kollar | 3/23/2012 | 5/8/2013 |
| Roe 1352 | William Kooken | 3/23/2012 | 5/8/2013 |
| Roe 1353 | John Kostszewa | 3/23/2012 | 5/8/2013 |
| Roe 1354 | Marlene Kostszewa | 3/23/2012 | 5/8/2013 |
| Roe 1356 | Pamela Kousen | 3/23/2012 | 5/8/2013 |
| Roe 1358 | Robert Kramer | 3/23/2012 | 5/8/2013 |
| Roe 1359 | David Ku | 3/23/2012 | 5/8/2013 |
| Roe 1360 | Sou Ku | 3/23/2012 | 5/8/2013 |
| Roe 1362 | Terry Kuchta | 3/23/2012 | 5/8/2013 |
| Roe 1363 | Seishi Kumagai | 3/23/2012 | 5/8/2013 |
| Roe 1364 | Wei Kung | 3/23/2012 | 5/8/2013 |
| Roe 1366 | Julia Kyle | 3/23/2012 | 5/8/2013 |
| Roe 1367 | Jean La Porte | 3/23/2012 | 5/8/2013 |
| Roe 1368 | Lilia Laguerta | 3/23/2012 | 5/8/2013 |
| Roe 1369 | Deloris Lambert | 3/23/2012 | 5/8/2013 |
| Roe 1370 | Nancy Lambert | 3/23/2012 | 5/8/2013 |
| Roe 1371 | Lancaster Blvd | 3/23/2012 | 5/8/2013 |
| Roe 1372 | Lancaster Blvd and 42nd St West | 3/23/2012 | 5/8/2013 |
| Roe 1373 | Lancaster New Horizons | 3/23/2012 | 5/8/2013 |
| Roe 1374 | Pearl Landau | 3/23/2012 | 5/8/2013 |
| Roe 1375 | William Landau | 3/23/2012 | 5/8/2013 |
| Roe 1376 | Jesus Landeverde | 3/23/2012 | 5/8/2013 |
| Roe 1378 | Roberto Landeros | 3/23/2012 | 5/8/2013 |
| Roe 1382 | William Lanier | 3/23/2012 | 5/8/2013 |
| Roe 1383 | Ann Lanktree | 3/23/2012 | 5/8/2013 |
| Roe 1386 | Bonnie Large | 3/23/2012 | 5/8/2013 |
| Roe 1387 | Robert Large | 3/23/2012 | 5/8/2013 |
| Roe 1388 | Samson Larranaga | 3/23/2012 | 5/8/2013 |
| Roe 1390 | Alton Law | 3/23/2012 | 5/8/2013 |
| Roe 1391 | Michael Lawrence | 3/23/2012 | 5/8/2013 |
| Roe 1392 | Louie Laymance | 3/23/2012 | 5/8/2013 |
| Roe 1395 | Conrado Lazo | 3/23/2012 | 5/8/2013 |
| Roe 1396 | Elizabeth Lazo | 3/23/2012 | 5/8/2013 |
| Roe 1398 | Loi Le | 3/23/2012 | 5/8/2013 |
| Roe 1400 | Suong Le | 3/23/2012 | 5/8/2013 |
| Roe 1401 | Yen Le | 3/23/2012 | 5/8/2013 |
| Roe 1402 | Cornelius Leary | 3/23/2012 | 5/8/2013 |
| Roe 1404 | Margaret Lebrecht | 3/23/2012 | 5/8/2013 |
| Roe 1405 | Chi Lee | 3/23/2012 | 5/8/2013 |
| Roe 1406 | Delano Lee | 3/23/2012 | 5/8/2013 |
| Roe 1407 | Jim Lee | 3/23/2012 | 5/8/2013 |
| Roe 1408 | Mai Lee | 3/23/2012 | 5/8/2013 |
| Roe 1409 | Ting Lee | 3/23/2012 | 5/8/2013 |
| Roe 1412 | Aurelia Legaspi | 3/23/2012 | 5/8/2013 |
| Roe 1413 | Felimon Legaspi | 3/23/2012 | 5/8/2013 |
| Roe 1415 | Leighton Leno | 3/23/2012 | 5/8/2013 |
| Roe 1416 | Nancy Leno | 3/23/2012 | 5/8/2013 |
| Roe 1418 | Mariane Lesiak | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1419 | Max Lesiak | 3/23/2012 | 5/8/2013 |
| Roe 1420 | Ramie Leung | 3/23/2012 | 5/8/2013 |
| Roe 1425 | Rudolfo Libed | 3/23/2012 | 5/8/2013 |
| Roe 1426 | Lien Family Survivors Trust | 3/23/2012 | 5/8/2013 |
| Roe 1427 | Michael Liggett | 3/23/2012 | 5/8/2013 |
| Roe 1428 | Camila Lim | 3/23/2012 | 5/8/2013 |
| Roe 1429 | Leonore Limos | 3/23/2012 | 5/8/2013 |
| Roe 1430 | Tachung Lin | 3/23/2012 | 5/8/2013 |
| Roe 1431 | Donald Linde | 3/23/2012 | 5/8/2013 |
| Roe 1432 | Ling Ling Fang | 3/23/2012 | 5/8/2013 |
| Roe 1433 | Lilla Liong | 3/23/2012 | 5/8/2013 |
| Roe 1434 | Chih Liu | 3/23/2012 | 5/8/2013 |
| Roe 1435 | Suh Liu | 3/23/2012 | 5/8/2013 |
| Roe 1436 | Shirley Lizotte | 3/23/2012 | 5/8/2013 |
| Roe 1437 | Edith Llanda | 3/23/2012 | 5/8/2013 |
| Roe 1438 | Lloyd F Avery Tr | 3/23/2012 | 5/8/2013 |
| Roe 1441 | Carmelita Locsin | 3/23/2012 | 5/8/2013 |
| Roe 1442 | Hilario Locsin | 3/23/2012 | 5/8/2013 |
| Roe 1443 | Mary Logue | 3/23/2012 | 5/8/2013 |
| Roe 1444 | Thanh Loi | 3/23/2012 | 5/8/2013 |
| Roe 1445 | Lola R Johnson Trust | 3/23/2012 | 5/8/2013 |
| Roe 1446 | Lombardo Fmly Rev Liv Tr | 3/23/2012 | 5/8/2013 |
| Roe 1448 | Thomas Lopac | 3/23/2012 | 5/8/2013 |
| Roe 1449 | Mark Lopez | 3/23/2012 | 5/8/2013 |
| Roe 1450 | Olivia Lopez | 3/23/2012 | 5/8/2013 |
| Roe 1451 | Victor Lopez | 3/23/2012 | 5/8/2013 |
| Roe 1452 | Bernard Los Banos | 3/23/2012 | 5/8/2013 |
| Roe 1455 | Charles Lowery | 3/23/2012 | 5/8/2013 |
| Roe 1458 | Eva Lubbers | 3/23/2012 | 5/8/2013 |
| Roe 1459 | Robert Lucero | 3/23/2012 | 5/8/2013 |
| Roe 1460 | Maria Ludovico | 3/23/2012 | 5/8/2013 |
| Roe 1461 | Mike Ly | 3/23/2012 | 5/8/2013 |
| Roe 1462 | Patricia Lynch | 3/23/2012 | 5/8/2013 |
| Roe 1464 | Christi Lyons | 3/23/2012 | 5/8/2013 |
| Roe 1465 | John Lyons | 3/23/2012 | 5/8/2013 |
| Roe 1466 | M14 Development LLC | 3/23/2012 | 5/8/2013 |
| Roe 1467 | Bernadette Macadaeg | 3/23/2012 | 5/8/2013 |
| Roe 1468 | Jeanenne Mace | 3/23/2012 | 5/8/2013 |
| Roe 1469 | Mark Mace | 3/23/2012 | 5/8/2013 |
| Roe 1470 | Antonio Macias | 3/23/2012 | 5/8/2013 |
| Roe 1471 | Benjamin Macias | 3/23/2012 | 5/8/2013 |
| Roe 1472 | Martina Macias | 3/23/2012 | 5/8/2013 |
| Roe 1473 | James Mackel | 3/23/2012 | 5/8/2013 |
| Roe 1474 | Antonio Madrigal | 3/23/2012 | 5/8/2013 |
| Roe 1475 | Cecilia Magalona | 3/23/2012 | 5/8/2013 |
| Roe 1476 | Pale Mageo | 3/23/2012 | 5/8/2013 |
| Roe 1477 | Patrocinio Maglaya | 3/23/2012 | 5/8/2013 |
| Roe 1478 | Robert Magliano | 3/23/2012 | 5/8/2013 |
| Roe 1479 | Rosalin Magliano | 3/23/2012 | 5/8/2013 |
| Roe 1480 | Rolado Magtaas | 3/23/2012 | 5/8/2013 |
| Roe 1482 | Vanna Mak | 3/23/2012 | 5/8/2013 |
| Roe 1483 | Angela Malay | 3/23/2012 | 5/8/2013 |
| Roe 1484 | Narciso Malit | 3/23/2012 | 5/8/2013 |
| Roe 1485 | Lorie Manay | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1486 | Luzviminda Mandac | 3/23/2012 | 5/8/2013 |
| Roe 1487 | David Manery | 3/23/2012 | 5/8/2013 |
| Roe 1488 | Carol Mannino | 3/23/2012 | 5/8/2013 |
| Roe 1489 | Charito Manuel | 3/23/2012 | 5/8/2013 |
| Roe 1492 | Charles Manzo | 3/23/2012 | 5/8/2013 |
| Roe 1493 | Rudolph Maravich | 3/23/2012 | 5/8/2013 |
| Roe 1494 | Maree J De Lano Tr. | 3/23/2012 | 5/8/2013 |
| Roe 1496 | Helen Marotta | 3/23/2012 | 5/8/2013 |
| Roe 1497 | Alfredo Marquez | 3/23/2012 | 5/8/2013 |
| Roe 1498 | Manuela Marquez | 3/23/2012 | 5/8/2013 |
| Roe 1501 | Mary Marsh | 3/23/2012 | 5/8/2013 |
| Roe 1503 | Byrn Marshall | 3/23/2012 | 5/8/2013 |
| Roe 1506 | Alma Martin | 3/23/2012 | 5/8/2013 |
| Roe 1507 | Arthur Martin | 3/23/2012 | 5/8/2013 |
| Roe 1508 | Barbara Martin | 3/23/2012 | 5/8/2013 |
| Roe 1509 | Thomas Martin | 3/23/2012 | 5/8/2013 |
| Roe 1510 | Francisco Martinez | 3/23/2012 | 5/8/2013 |
| Roe 1512 | Jesus Martinez | 3/23/2012 | 5/8/2013 |
| Roe 1514 | Maria Martinez | 3/23/2012 | 5/8/2013 |
| Roe 1515 | Robert Martinez | 3/23/2012 | 5/8/2013 |
| Roe 1523 | Mildred Mason | 3/23/2012 | 5/8/2013 |
| Roe 1524 | Donald Masters | 3/23/2012 | 5/8/2013 |
| Roe 1526 | Rosario Mata | 3/23/2012 | 5/8/2013 |
| Roe 1528 | Sumiko Matsushima | 3/23/2012 | 5/8/2013 |
| Roe 1529 | Fulton Matthews | 3/23/2012 | 5/8/2013 |
| Roe 1530 | Matthew Maurice | 3/23/2012 | 5/8/2013 |
| Roe 1531 | Shirley Maxilom | 3/23/2012 | 5/8/2013 |
| Roe 1532 | Catherine Maxwell | 3/23/2012 | 5/8/2013 |
| Roe 1535 | Gustauo Mazariegos | 3/23/2012 | 5/8/2013 |
| Roe 1536 | Linda Mazariegos | 3/23/2012 | 5/8/2013 |
| Roe 1539 | Raymond Mc Kay | 3/23/2012 | 5/8/2013 |
| Roe 1540 | B Mc Laren | 3/23/2012 | 5/8/2013 |
| Roe 1541 | Brian Mc Laughlin | 3/23/2012 | 5/8/2013 |
| Roe 1542 | Rae McAllister | 3/23/2012 | 5/8/2013 |
| Roe 1543 | Julienne McCalman | 3/23/2012 | 5/8/2013 |
| Roe 1544 | Walter McCalman | 3/23/2012 | 5/8/2013 |
| Roe 1545 | Loreta McClain | 3/23/2012 | 5/8/2013 |
| Roe 1546 | Susan McCline | 3/23/2012 | 5/8/2013 |
| Roe 1547 | Donan McClung | 3/23/2012 | 5/8/2013 |
| Roe 1548 | Frederick McCool | 3/23/2012 | 5/8/2013 |
| Roe 1549 | Rita McCool | 3/23/2012 | 5/8/2013 |
| Roe 1550 | Jerrie McDowell | 3/23/2012 | 5/8/2013 |
| Roe 1551 | Patty McGahan | 3/23/2012 | 5/8/2013 |
| Roe 1553 | Edwin McNinch | 3/23/2012 | 5/8/2013 |
| Roe 1554 | Margaret McNinch | 3/23/2012 | 5/8/2013 |
| Roe 1557 | Julian Medina | 3/23/2012 | 5/8/2013 |
| Roe 1558 | Juana Mejia | 3/23/2012 | 5/8/2013 |
| Roe 1559 | Leonard Mellow | 3/23/2012 | 5/8/2013 |
| Roe 1560 | Alfredo Mendoza | 3/23/2012 | 5/8/2013 |
| Roe 1561 | Cuauhtemoc Mendoza | 3/23/2012 | 5/8/2013 |
| Roe 1563 | Herminia Messier | 3/23/2012 | 5/8/2013 |
| Roe 1564 | Leonard Messier | 3/23/2012 | 5/8/2013 |
| Roe 1565 | David Meyer | 3/23/2012 | 5/8/2013 |
| Roe 1566 | Lisa Meyer | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1567 | Meyer Crest Ltd | 3/23/2012 | 5/8/2013 |
| Roe 1568 | Meyer Crest Ltr | 3/23/2012 | 5/8/2013 |
| Roe 1571 | Hisao Mihara | 3/23/2012 | 5/8/2013 |
| Roe 1572 | Molly Mikel | 3/23/2012 | 5/8/2013 |
| Roe 1573 | Sam Mikel | 3/23/2012 | 5/8/2013 |
| Roe 1575 | Linda Miller | 3/23/2012 | 5/8/2013 |
| Roe 1576 | Nancy Miller | 3/23/2012 | 5/8/2013 |
| Roe 1577 | Raymond Miller | 3/23/2012 | 5/8/2013 |
| Roe 1578 | Richard Miller | 3/23/2012 | 5/8/2013 |
| Roe 1579 | Steven Miller | 3/23/2012 | 5/8/2013 |
| Roe 1582 | Roldan Mina | 9/17/2015 | 10/16/2015 |
| Roe 1583 | Lieu Minh | 3/23/2012 | 5/8/2013 |
| Roe 1584 | Van Minh | 3/23/2012 | 5/8/2013 |
| Roe 1585 | Salvador Miranda | 3/23/2012 | 5/8/2013 |
| Roe 1586 | Morteza Mirkazemi | 3/23/2012 | 5/8/2013 |
| Roe 1587 | Susan Mirkazemi | 3/23/2012 | 5/8/2013 |
| Roe 1590 | Janice Mitsushima | 3/23/2012 | 5/8/2013 |
| Roe 1593 | Chiung Mo | 3/23/2012 | 5/8/2013 |
| Roe 1595 | Bjorn Moene | 3/23/2012 | 5/8/2013 |
| Roe 1596 | Celina Molina | 3/23/2012 | 5/8/2013 |
| Roe 1598 | Patricio Moneda | 3/23/2012 | 5/8/2013 |
| Roe 1599 | Saeed Monfared | 3/23/2012 | 5/8/2013 |
| Roe 1600 | Eusebio Montemayor | 3/23/2012 | 5/8/2013 |
| Roe 1601 | Maria Montes | 3/23/2012 | 5/8/2013 |
| Roe 1602 | Judith Moore | 3/23/2012 | 5/8/2013 |
| Roe 1603 | Thomas Moore | 3/23/2012 | 5/8/2013 |
| Roe 1604 | William Moore | 3/23/2012 | 5/8/2013 |
| Roe 1605 | Michael Moreno | 3/23/2012 | 5/8/2013 |
| Roe 1606 | Ritsuko Mori | 3/23/2012 | 5/8/2013 |
| Roe 1607 | John Morris | 3/23/2012 | 5/8/2013 |
| Roe 1609 | Mary Moses | 3/23/2012 | 5/8/2013 |
| Roe 1610 | Firouzeh Motavvef | 3/23/2012 | 5/8/2013 |
| Roe 1611 | Mansoor Motavvef | 3/23/2012 | 5/8/2013 |
| Roe 1612 | Girard Moughalian | 3/23/2012 | 5/8/2013 |
| Roe 1613 | Renate Moughalian | 3/23/2012 | 5/8/2013 |
| Roe 1614 | Marilyn Mudgett | 3/23/2012 | 5/8/2013 |
| Roe 1615 | Brandon Mullins | 3/23/2012 | 5/8/2013 |
| Roe 1616 | Maia Mulvena | 3/23/2012 | 5/8/2013 |
| Roe 1618 | Emma Mungia | 3/23/2012 | 5/8/2013 |
| Roe 1620 | Dan Munz | 3/23/2012 | 5/8/2013 |
| Roe 1623 | Bronwyn Murdock | 3/23/2012 | 5/8/2013 |
| Roe 1624 | Estela Muro | 3/23/2012 | 5/8/2013 |
| Roe 1626 | Murtaugh Survivors Trust | 3/23/2012 | 5/8/2013 |
| Roe 1628 | Duk Myung | 3/23/2012 | 5/8/2013 |
| Roe 1629 | Hyun Myung | 3/23/2012 | 5/8/2013 |
| Roe 1631 | Mary Nadwodny | 3/23/2012 | 5/8/2013 |
| Roe 1635 | Satoye Nakamichi | 3/23/2012 | 5/8/2013 |
| Roe 1636 | Yoshito Nakashima | 3/23/2012 | 5/8/2013 |
| Roe 1637 | Shizuko Nakawatase | 3/23/2012 | 5/8/2013 |
| Roe 1638 | Yoshitaka Nakawatase | 3/23/2012 | 5/8/2013 |
| Roe 1639 | Jim Nanamkin | 3/23/2012 | 5/8/2013 |
| Roe 1640 | David Naputi | 3/23/2012 | 5/8/2013 |
| Roe 1642 | Nationwide Asset Management LP | 3/23/2012 | 5/8/2013 |
| Roe 1643 | Charyl Naval | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1645 | Andrea Navarro | 3/23/2012 | 5/8/2013 |
| Roe 1647 | Jose Navarro | 3/23/2012 | 5/8/2013 |
| Roe 1651 | Dorwin Newman | 3/23/2012 | 5/8/2013 |
| Roe 1652 | Shirley Newman | 3/23/2012 | 5/8/2013 |
| Roe 1653 | Newsom Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 1654 | Binh Ngo | 3/23/2012 | 5/8/2013 |
| Roe 1655 | Anthony Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1656 | Danny Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1657 | Frank Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1658 | Ngoc Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1659 | Nguyet Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1660 | Sonnie Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1661 | Thanh Nguyen | 3/23/2012 | 5/8/2013 |
| Roe 1665 | Gerard Nicholson | 3/23/2012 | 5/8/2013 |
| Roe 1666 | Marie Nicholson | 3/23/2012 | 5/8/2013 |
| Roe 1668 | Eric Nishida | 3/23/2012 | 5/8/2013 |
| Roe 1670 | Lydia Nixon | 3/23/2012 | 5/8/2013 |
| Roe 1672 | Dixie Noel | 3/23/2012 | 5/8/2013 |
| Roe 1674 | Mark Noterman | 3/23/2012 | 5/8/2013 |
| Roe 1675 | Yvette Noterman | 3/23/2012 | 5/8/2013 |
| Roe 1676 | Nancy Nou | 3/23/2012 | 5/8/2013 |
| Roe 1677 | Cipriano Noveloso | 3/23/2012 | 5/8/2013 |
| Roe 1678 | Dolores Noveloso | 3/23/2012 | 5/8/2013 |
| Roe 1679 | Henry Nozaki | 3/23/2012 | 5/8/2013 |
| Roe 1680 | Naomi Nozaki | 3/23/2012 | 5/8/2013 |
| Roe 1681 | Mary Nutter | 3/23/2012 | 5/8/2013 |
| Roe 1682 | Merle Oberg | 3/23/2012 | 5/8/2013 |
| Roe 1683 | Timothy Oconnor | 3/23/2012 | 5/8/2013 |
| Roe 1684 | Jessie Ohta | 3/23/2012 | 5/8/2013 |
| Roe 1685 | Haruto Okihara | 3/23/2012 | 5/8/2013 |
| Roe 1687 | Rick Olivas | 3/23/2012 | 5/8/2013 |
| Roe 1688 | Olson Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 1691 | Adoracion Orara | 3/23/2012 | 5/8/2013 |
| Roe 1692 | Francisco Orara | 3/23/2012 | 5/8/2013 |
| Roe 1694 | Evelyn Ortega | 3/23/2012 | 5/8/2013 |
| Roe 1695 | Joe Mari Ortega | 3/23/2012 | 5/8/2013 |
| Roe 1696 | Pedro Ortega | 3/23/2012 | 5/8/2013 |
| Roe 1698 | Doris Oshiro | 3/23/2012 | 5/8/2013 |
| Roe 1699 | Firooz Oskooi | 3/23/2012 | 5/8/2013 |
| Roe 1705 | Charlene Padgett | 3/23/2012 | 5/8/2013 |
| Roe 1706 | Roy Padgett | 3/23/2012 | 5/8/2013 |
| Roe 1707 | Marta Padilla | 3/23/2012 | 5/8/2013 |
| Roe 1708 | Paz Padilla | 3/23/2012 | 5/8/2013 |
| Roe 1709 | Claire Padua | 3/23/2012 | 5/8/2013 |
| Roe 1711 | Leonida Pagdilao | 3/23/2012 | 5/8/2013 |
| Roe 1712 | Julio Palacio | 3/23/2012 | 5/8/2013 |
| Roe 1714 | Palmdale 5th Street West LLC | 3/23/2012 | 5/8/2013 |
| Roe 1715 | Palmdale Family Housing | 3/23/2012 | 5/8/2013 |
| Roe 1716 | Palmdale Lodging Associates LLC | 3/23/2012 | 5/8/2013 |
| Roe 1717 | Palmdale Mobile Park LLC | 3/23/2012 | 5/8/2013 |
| Roe 1719 | Eugenio Paredes | 3/23/2012 | 5/8/2013 |
| Roe 1721 | Choon Park | 9/21/2015 | 10/13/2015 |
| Roe 1722 | Inyoung Park | 3/23/2012 | 5/8/2013 |
| Roe 1728 | Jose Pastrano | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1730 | Sally Patino | 3/23/2012 | 5/8/2013 |
| Roe 1732 | Adrian Pauling | 3/23/2012 | 5/8/2013 |
| Roe 1738 | Vicenta Pena | 3/23/2012 | 5/8/2013 |
| Roe 1740 | Michael Pereira | 3/23/2012 | 5/8/2013 |
| Roe 1741 | Rosa Perez | 3/23/2012 | 5/8/2013 |
| Roe 1742 | PH Rosamond LLC | 3/23/2012 | 5/8/2013 |
| Roe 1743 | Orrin Phillips | 3/23/2012 | 5/8/2013 |
| Roe 1744 | Paul Pieratt | 3/23/2012 | 5/8/2013 |
| Roe 1748 | Arthur Pizano | 3/23/2012 | 5/8/2013 |
| Roe 1750 | Tavil Ployngam | 3/23/2012 | 5/8/2013 |
| Roe 1751 | Perla Pollard | 3/23/2012 | 5/8/2013 |
| Roe 1752 | Robert Pollard | 3/23/2012 | 5/8/2013 |
| Roe 1755 | Poole Family Tr | 3/23/2012 | 5/8/2013 |
| Roe 1756 | Dora Porcari | 3/23/2012 | 5/8/2013 |
| Roe 1760 | Robert Potter | 3/23/2012 | 5/8/2013 |
| Roe 1762 | Waraya Pratanthip | 3/23/2012 | 5/8/2013 |
| Roe 1764 | Romano Procida | 3/23/2012 | 5/8/2013 |
| Roe 1765 | Bruno Prodan | 3/23/2012 | 5/8/2013 |
| Roe 1766 | Rosa Prodan | 3/23/2012 | 5/8/2013 |
| Roe 1767 | PVK Family Limited Ptn | 3/23/2012 | 5/8/2013 |
| Roe 1768 | Quan Quoc Pham | 3/23/2012 | 5/8/2013 |
| Roe 1769 | Quantumcue Inc | 3/23/2012 | 5/8/2013 |
| Roe 1770 | Bella Questin | 3/23/2012 | 5/8/2013 |
| Roe 1773 | Mary Quinlan | 3/23/2012 | 5/8/2013 |
| Roe 1774 | Theodore Rabena | 3/23/2012 | 5/8/2013 |
| Roe 1776 | Armando Raguine | 3/23/2012 | 5/8/2013 |
| Roe 1778 | Gay Ralphs | 3/23/2012 | 5/8/2013 |
| Roe 1779 | Fred Rampe | 3/23/2012 | 5/8/2013 |
| Roe 1780 | Felicitas Ranada | 3/23/2012 | 5/8/2013 |
| Roe 1782 | Mahmud Rawjee | 3/23/2012 | 5/8/2013 |
| Roe 1783 | Fereidoun Razavi | 3/23/2012 | 5/8/2013 |
| Roe 1784 | Clarence Razer | 3/23/2012 | 5/8/2013 |
| Roe 1785 | Jean Razer | 3/23/2012 | 5/8/2013 |
| Roe 1786 | Joan Reach | 3/23/2012 | 5/8/2013 |
| Roe 1788 | Robert Reed | 3/23/2012 | 5/8/2013 |
| Roe 1789 | Barbara Reff | 3/23/2012 | 5/8/2013 |
| Roe 1790 | Herbert Reff | 3/23/2012 | 5/8/2013 |
| Roe 1791 | Mary Reid | 3/23/2012 | 5/8/2013 |
| Roe 1795 | Concepcion Reyes | 3/23/2012 | 5/8/2013 |
| Roe 1796 | Elizabeth Reyes | 3/23/2012 | 5/8/2013 |
| Roe 1797 | Ernesto Reyes | 3/23/2012 | 5/8/2013 |
| Roe 1798 | Vicente Reyes | 3/23/2012 | 5/8/2013 |
| Roe 1801 | Sei Rhee | 3/23/2012 | 5/8/2013 |
| Roe 1803 | Susan Rhoda | 3/23/2012 | 5/8/2013 |
| Roe 1804 | Michele Rhoden | 3/23/2012 | 5/8/2013 |
| Roe 1805 | Morris Richards | 3/23/2012 | 5/8/2013 |
| Roe 1807 | Ronald Ricketts | 3/23/2012 | 5/8/2013 |
| Roe 1810 | Anita Rider | 3/23/2012 | 5/8/2013 |
| Roe 1811 | Florence Rimando | 3/23/2012 | 5/8/2013 |
| Roe 1812 | Ruben Rimando | 3/23/2012 | 5/8/2013 |
| Roe 1813 | Maria Rios | 3/23/2012 | 5/8/2013 |
| Roe 1814 | Nicolas Rios | 3/23/2012 | 5/8/2013 |
| Roe 1815 | Joyce Ripperda | 3/23/2012 | 5/8/2013 |
| Roe 1816 | James Rippon | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1818 | George Rivera | 3/23/2012 | 5/8/2013 |
| Roe 1820 | David Robbie | 3/23/2012 | 5/8/2013 |
| Roe 1821 | Kinue Robbie | 3/23/2012 | 5/8/2013 |
| Roe 1822 | Tracy Roberson | 3/23/2012 | 5/8/2013 |
| Roe 1824 | Charles Robertson | 3/23/2012 | 5/8/2013 |
| Roe 1825 | Albert Rodarte | 3/23/2012 | 5/8/2013 |
| Roe 1826 | Concepcion Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 1827 | Guadalupe Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 1828 | Ignacio Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 1829 | John Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 1831 | Roquemore Tr | 3/23/2012 | 5/8/2013 |
| Roe 1832 | Russell Rosenberry | 3/23/2012 | 5/8/2013 |
| Roe 1835 | Robert Rosenthal | 3/23/2012 | 5/8/2013 |
| Roe 1836 | Ross Rebar Co., Inc. | 3/23/2012 | 5/8/2013 |
| Roe 1837 | Richard Rottgering | 3/23/2012 | 5/8/2013 |
| Roe 1838 | Trisha Rowe | 3/23/2012 | 5/8/2013 |
| Roe 1839 | Marshall Rowen | 3/23/2012 | 5/8/2013 |
| Roe 1840 | Myra Rowland | 3/23/2012 | 5/8/2013 |
| Roe 1841 | Sidney Ru | 3/23/2012 | 5/8/2013 |
| Roe 1842 | James Rubenstein | 3/23/2012 | 5/8/2013 |
| Roe 1846 | Dewey Runkle | 3/23/2012 | 5/8/2013 |
| Roe 1847 | Lynn Ruona | 3/23/2012 | 5/8/2013 |
| Roe 1848 | Frederick Ruopp | 3/23/2012 | 5/8/2013 |
| Roe 1849 | Berna Russell | 3/23/2012 | 5/8/2013 |
| Roe 1850 | Helen Russell | 3/23/2012 | 5/8/2013 |
| Roe 1851 | Patricia Ruston | 3/23/2012 | 5/8/2013 |
| Roe 1852 | Tom Ruston | 3/23/2012 | 5/8/2013 |
| Roe 1854 | Hermogenes Sacman | 3/23/2012 | 5/8/2013 |
| Roe 1860 | Katsuji Saito | 3/23/2012 | 5/8/2013 |
| Roe 1861 | Gabriel Salazar | 3/23/2012 | 5/8/2013 |
| Roe 1862 | Hoger Saleh | 3/23/2012 | 5/8/2013 |
| Roe 1863 | Betty Sallen | 3/23/2012 | 5/8/2013 |
| Roe 1864 | Joseph Sallen | 3/23/2012 | 5/8/2013 |
| Roe 1865 | San Diego French American | 3/23/2012 | 5/8/2013 |
| Roe 1867 | Francisco Sanchez | 3/23/2012 | 5/8/2013 |
| Roe 1868 | Maria Sanchez | 3/23/2012 | 5/8/2013 |
| Roe 1869 | Gregorio Santos | 3/23/2012 | 5/8/2013 |
| Roe 1870 | Jose Saromines | 3/23/2012 | 5/8/2013 |
| Roe 1872 | Sasaki Family Trust 1995 | 3/23/2012 | 5/8/2013 |
| Roe 1873 | Karen Sauer | 3/23/2012 | 5/8/2013 |
| Roe 1874 | Amy Say | 3/23/2012 | 5/8/2013 |
| Roe 1875 | William Schad | 3/23/2012 | 5/8/2013 |
| Roe 1876 | Alice Schaeffer | 3/23/2012 | 5/8/2013 |
| Roe 1877 | Bud Schaeffer | 3/23/2012 | 5/8/2013 |
| Roe 1884 | Judith Schlegel | 3/23/2012 | 5/8/2013 |
| Roe 1885 | Stephen Schlegel | 3/23/2012 | 5/8/2013 |
| Roe 1887 | Hazel Schoepflin | 3/23/2012 | 5/8/2013 |
| Roe 1888 | Niel Schoepflin | 3/23/2012 | 5/8/2013 |
| Roe 1891 | John Schulte | 3/23/2012 | 5/8/2013 |
| Roe 1892 | Philip Schultz | 3/23/2012 | 5/8/2013 |
| Roe 1893 | Betty Scidmore | 3/23/2012 | 5/8/2013 |
| Roe 1894 | Robert Scott | 3/23/2012 | 5/8/2013 |
| Roe 1895 | Patricia Scruggs | 3/23/2012 | 5/8/2013 |
| Roe 1897 | Henry Segrove | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1898 | Florence Seibert | 3/23/2012 | 5/8/2013 |
| Roe 1899 | Alvin Selnick | 3/23/2012 | 5/8/2013 |
| Roe 1901 | Carl Semotan | 3/23/2012 | 5/8/2013 |
| Roe 1903 | Ralph Sexton | 3/23/2012 | 5/8/2013 |
| Roe 1904 | Eugenia Shadd | 3/23/2012 | 5/8/2013 |
| Roe 1905 | William Shannon | 3/23/2012 | 5/8/2013 |
| Roe 1908 | Catherine Shearer | 3/23/2012 | 5/8/2013 |
| Roe 1909 | Shearer Marital Trust | 3/23/2012 | 5/8/2013 |
| Roe 1911 | Earnest Sherman | 3/23/2012 | 5/8/2013 |
| Roe 1912 | Hajime Shibuya | 3/23/2012 | 5/8/2013 |
| Roe 1913 | Kyoko Shibuya | 3/23/2012 | 5/8/2013 |
| Roe 1914 | Lupe Shimabukuro | 3/23/2012 | 5/8/2013 |
| Roe 1915 | Rodney Shimabukuro | 3/23/2012 | 5/8/2013 |
| Roe 1916 | Yoshiaki Shimizu | 3/23/2012 | 5/8/2013 |
| Roe 1917 | Shogo Shimomura | 3/23/2012 | 5/8/2013 |
| Roe 1918 | Alves Shiu | 3/23/2012 | 5/8/2013 |
| Roe 1919 | Benjamin Shlomi | 3/23/2012 | 5/8/2013 |
| Roe 1920 | Behrouz Shokri | 3/23/2012 | 5/8/2013 |
| Roe 1921 | Fariba Shokri | 3/23/2012 | 5/8/2013 |
| Roe 1924 | Lolita Sicat | 3/23/2012 | 5/8/2013 |
| Roe 1925 | Jakob Siccama | 3/23/2012 | 5/8/2013 |
| Roe 1928 | Sierra Gateway Resolution LLC | 3/23/2012 | 5/8/2013 |
| Roe 1930 | Edward Simon | 3/23/2012 | 5/8/2013 |
| Roe 1932 | Gora Singh | 3/23/2012 | 5/8/2013 |
| Roe 1933 | Tina Singh | 3/23/2012 | 5/8/2013 |
| Roe 1935 | Esther Siville | 3/23/2012 | 5/8/2013 |
| Roe 1936 | Siville Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 1937 | Charles Skaggs | 3/23/2012 | 5/8/2013 |
| Roe 1938 | Rebecca Skaggs | 3/23/2012 | 5/8/2013 |
| Roe 1939 | Georgette Skiadas | 3/23/2012 | 5/8/2013 |
| Roe 1941 | Charles Skinner | 3/23/2012 | 5/8/2013 |
| Roe 1942 | Sharren Skinner | 3/23/2012 | 5/8/2013 |
| Roe 1943 | Frank Small | 3/23/2012 | 5/8/2013 |
| Roe 1945 | Chong Smith | 3/23/2012 | 5/8/2013 |
| Roe 1946 | Jack Smith | 3/23/2012 | 5/8/2013 |
| Roe 1947 | James Smith | 3/23/2012 | 5/8/2013 |
| Roe 1948 | Larry Smith | 3/23/2012 | 5/8/2013 |
| Roe 1951 | Robert Smith | 3/23/2012 | 5/8/2013 |
| Roe 1953 | Gary Snyder | 3/23/2012 | 5/8/2013 |
| Roe 1956 | Konstantinos Soteropoulos | 3/23/2012 | 5/8/2013 |
| Roe 1957 | Juan Soto | 3/23/2012 | 5/8/2013 |
| Roe 1958 | James South | 3/23/2012 | 5/8/2013 |
| Roe 1961 | Edward Sovich | 3/23/2012 | 5/8/2013 |
| Roe 1963 | T Spenard | 3/23/2012 | 5/8/2013 |
| Roe 1964 | Francis Sperling | 3/23/2012 | 5/8/2013 |
| Roe 1965 | David Sserunkuma | 3/23/2012 | 5/8/2013 |
| Roe 1967 | Virginia Stadler | 3/23/2012 | 5/8/2013 |
| Roe 1969 | Alan Stenerson | 3/23/2012 | 5/8/2013 |
| Roe 1971 | Teresita Sterkel | 3/23/2012 | 5/8/2013 |
| Roe 1973 | Nicole Stetson | 3/23/2012 | 5/8/2013 |
| Roe 1975 | Stipancic Tr | 3/23/2012 | 5/8/2013 |
| Roe 1976 | Brian Stone | 3/23/2012 | 5/8/2013 |
| Roe 1977 | Lois Stover | 3/23/2012 | 5/8/2013 |
| Roe 1980 | Wilma Stremel | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 1981 | Thomas Striegler | 3/23/2012 | 5/8/2013 |
| Roe 1982 | Steve Stubner | 3/23/2012 | 5/8/2013 |
| Roe 1983 | Guzel Sturm | 3/23/2012 | 5/8/2013 |
| Roe 1987 | Jordan Sugarman | 3/23/2012 | 5/8/2013 |
| Roe 1988 | Ruth Sugarman | 3/23/2012 | 5/8/2013 |
| Roe 1991 | Eugene Summers | 3/23/2012 | 5/8/2013 |
| Roe 1993 | Queenie Summers | 3/23/2012 | 5/8/2013 |
| Roe 1995 | Frana Sunjka | 3/23/2012 | 5/8/2013 |
| Roe 1996 | Joseph Sunjka | 3/23/2012 | 5/8/2013 |
| Roe 1997 | Sunlight Townhome LLC | 3/23/2012 | 5/8/2013 |
| Roe 1998 | Lenny Supa | 3/23/2012 | 5/8/2013 |
| Roe 2000 | Fadia Sweis | 3/23/2012 | 5/8/2013 |
| Roe 2001 | Samir Sweis | 3/23/2012 | 5/8/2013 |
| Roe 2002 | Ethel Szeto | 3/23/2012 | 5/8/2013 |
| Roe 2003 | T L Squared LLC | 3/23/2012 | 5/8/2013 |
| Roe 2005 | Takashi Takagi | 3/23/2012 | 5/8/2013 |
| Roe 2006 | Reiko Takashita | 3/23/2012 | 5/8/2013 |
| Roe 2008 | Grover Talley | 3/23/2012 | 5/8/2013 |
| Roe 2009 | Herbert Tam | 3/23/2012 | 5/8/2013 |
| Roe 2010 | Cres Tamayo | 3/23/2012 | 5/8/2013 |
| Roe 2011 | Macario Tamayo | 3/23/2012 | 5/8/2013 |
| Roe 2012 | Corazon Tan | 3/23/2012 | 5/8/2013 |
| Roe 2013 | Fidelino Tan | 3/23/2012 | 5/8/2013 |
| Roe 2014 | Alice Tanaka | 3/23/2012 | 5/8/2013 |
| Roe 2015 | Roy Tanaka | 3/23/2012 | 5/8/2013 |
| Roe 2017 | Robin Taniguchi | 3/23/2012 | 3/12/2014 |
| Roe 2018 | Chi-Kwang Tao | 3/23/2012 | 3/12/2014 |
| Roe 2019 | Ting-Ning Tao | 3/23/2012 | 3/12/2014 |
| Roe 2020 | George Tapia | 3/23/2012 | 5/8/2013 |
| Roe 2021 | F Taylor | 3/23/2012 | 3/12/2014 |
| Roe 2026 | Fumio Teruya | 3/23/2012 | 3/12/2014 |
| Roe 2027 | Hisako Teruya | 3/23/2012 | 3/12/2014 |
| Roe 2032 | Mary Thompson | 3/23/2012 | 3/12/2014 |
| Roe 2033 | William Thompson | 3/23/2012 | 5/8/2013 |
| Roe 2036 | Thyra Retzke Family Trust | 3/23/2012 | 3/12/2014 |
| Roe 2037 | Ronald Tichauer | 3/23/2012 | 5/8/2013 |
| Roe 2038 | Louise Tiendas | 3/23/2012 | 3/12/2014 |
| Roe 2039 | Tertius Tiendas | 3/23/2012 | 3/12/2014 |
| Roe 2041 | Chiang Ting | 3/23/2012 | 3/12/2014 |
| Roe 2042 | Insurance Title | 3/23/2012 | 3/12/2014 |
| Roe 2043 | Title Insurance and Trust Company | 3/23/2012 | 3/12/2014 |
| Roe 2044 | Lynn Tivens | 3/23/2012 | 3/12/2014 |
| Roe 2045 | Arthur Tobin | 3/23/2012 | 3/12/2014 |
| Roe 2046 | Hilda Tobin | 3/23/2012 | 3/12/2014 |
| Roe 2047 | Today Investment Group LLC | 3/23/2012 | 5/8/2013 |
| Roe 2050 | Alice Tomei | 3/23/2012 | 3/12/2014 |
| Roe 2051 | Ralph Tomei | 3/23/2012 | 3/12/2014 |
| Roe 2052 | Glen Tomkiewicz | 3/23/2012 | 3/12/2014 |
| Roe 2053 | Jill Tomkiewicz | 3/23/2012 | 3/12/2014 |
| Roe 2054 | Benny Tomlinson | 3/23/2012 | 3/12/2014 |
| Roe 2055 | Dalisay Torres | 3/23/2012 | 3/12/2014 |
| Roe 2056 | Edilberto Torres | 3/23/2012 | 3/12/2014 |
| Roe 2057 | Nerio Torres | 3/23/2012 | 3/12/2014 |
| Roe 2058 | Shirley Torres | 3/23/2012 | 3/12/2014 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 2059 | Victor Torres | 3/23/2012 | 3/12/2014 |
| Roe 2061 | Felipe Tovar | 3/23/2012 | 5/8/2013 |
| Roe 2063 | Huynh Tran | 3/23/2012 | 3/12/2014 |
| Roe 2064 | Jeannie Tran | 3/23/2012 | 3/12/2014 |
| Roe 2065 | Sharon Tremblay | 3/23/2012 | 3/12/2014 |
| Roe 2066 | Emma Trochim | 3/23/2012 | 3/12/2014 |
| Roe 2069 | Jenny Truong | 3/23/2012 | 3/12/2014 |
| Roe 2071 | Liu Fang Tsen | 3/23/2012 | 3/12/2014 |
| Roe 2073 | Gail Tsuhako | 3/23/2012 | 3/12/2014 |
| Roe 2074 | John Tsuhako | 3/23/2012 | 3/12/2014 |
| Roe 2078 | Arthur Ulat | 3/23/2012 | 3/12/2014 |
| Roe 2079 | Eldena Ulat | 3/23/2012 | 3/12/2014 |
| Roe 2080 | Richard Unfried | 3/23/2012 | 3/12/2014 |
| Roe 2081 | Hoa Uong | 3/23/2012 | 3/12/2014 |
| Roe 2083 | Leslie Urban | 3/23/2012 | 3/12/2014 |
| Roe 2084 | Civ Ushigome | 3/23/2012 | 3/12/2014 |
| Roe 2086 | Amelia Uyehara | 3/23/2012 | 3/12/2014 |
| Roe 2087 | Eddie Uyehara | 3/23/2012 | 3/12/2014 |
| Roe 2090 | Elpidio Valdez | 3/23/2012 | 3/12/2014 |
| Roe 2092 | Max Van Runkle | 3/23/2012 | 5/8/2013 |
| Roe 2093 | Evangeline Vance | 3/23/2012 | 5/8/2013 |
| Roe 2094 | Donna Vandergroen | 3/23/2012 | 5/8/2013 |
| Roe 2095 | Ronald Vandergroen | 3/23/2012 | 5/8/2013 |
| Roe 2096 | Victor Varela | 3/23/2012 | 5/8/2013 |
| Roe 2097 | Danny Vaughn | 3/23/2012 | 5/8/2013 |
| Roe 2098 | Gil Velchez | 3/23/2012 | 5/8/2013 |
| Roe 2099 | Lolita Velchez | 3/23/2012 | 5/8/2013 |
| Roe 2100 | Velur Properties LLC | 3/23/2012 | 5/8/2013 |
| Roe 2101 | Venture Industrial LLC | 3/23/2012 | 5/8/2013 |
| Roe 2102 | Crispino Vicari | 3/23/2012 | 5/8/2013 |
| Roe 2103 | Isaias Vicens | 3/23/2012 | 5/8/2013 |
| Roe 2104 | Bertha Villagomez | 3/23/2012 | 5/8/2013 |
| Roe 2105 | Jose Villalpando | 3/23/2012 | 5/8/2013 |
| Roe 2106 | Norma Villarente | 3/23/2012 | 5/8/2013 |
| Roe 2107 | Doris Villegas | 3/23/2012 | 5/8/2013 |
| Roe 2108 | Gregario Villegas | 3/23/2012 | 5/8/2013 |
| Roe 2109 | Margarita Viloria | 3/23/2012 | 5/8/2013 |
| Roe 2110 | Edward Vilt | 3/23/2012 | 5/8/2013 |
| Roe 2111 | Rodger Virtue | 3/23/2012 | 5/8/2013 |
| Roe 2112 | Danny Visitacion | 3/23/2012 | 5/8/2013 |
| Roe 2113 | Sally Visitacion | 9/21/2015 | 10/13/2015 |
| Roe 2117 | Richard Vonborcke | 3/23/2012 | 5/8/2013 |
| Roe 2118 | Elisa Vondra | 3/23/2012 | 5/8/2013 |
| Roe 2119 | James Vondra | 3/23/2012 | 5/8/2013 |
| Roe 2121 | Robert Wade | 3/23/2012 | 5/8/2013 |
| Roe 2124 | Daniel Walden | 3/23/2012 | 5/8/2013 |
| Roe 2125 | Cecil Walker | 3/23/2012 | 5/8/2013 |
| Roe 2126 | Grace Walker | 3/23/2012 | 5/8/2013 |
| Roe 2127 | Patricia Wallace | 3/23/2012 | 5/8/2013 |
| Roe 2128 | William Wallace | 3/23/2012 | 5/8/2013 |
| Roe 2134 | Wong Wang | 3/23/2012 | 5/8/2013 |
| Roe 2135 | William Warmington | 3/23/2012 | 5/8/2013 |
| Roe 2136 | James Warner | 3/23/2012 | 5/8/2013 |
| Roe 2137 | Leigh Warner | 3/23/2012 | 5/8/2013 |

# DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 2138 | Amy Watson | 3/23/2012 | 5/8/2013 |
| Roe 2139 | Elizabeth Weaver | 3/23/2012 | 5/8/2013 |
| Roe 2140 | George Webb | 3/23/2012 | 5/8/2013 |
| Roe 2141 | Cecilia Wei | 3/23/2012 | 5/8/2013 |
| Roe 2142 | Chung Wei | 3/23/2012 | 5/8/2013 |
| Roe 2143 | Suhmei Wei | 3/23/2012 | 5/8/2013 |
| Roe 2145 | Ival West | 3/23/2012 | 5/8/2013 |
| Roe 2147 | Richard Wheaton | 3/23/2012 | 5/8/2013 |
| Roe 2148 | Betty White | 3/23/2012 | 5/8/2013 |
| Roe 2149 | Edward White | 3/23/2012 | 5/8/2013 |
| Roe 2150 | James White | 3/23/2012 | 5/8/2013 |
| Roe 2151 | Loretta White | 3/23/2012 | 5/8/2013 |
| Roe 2152 | Vivian White | 3/23/2012 | 5/8/2013 |
| Roe 2153 | Walt White | 3/23/2012 | 5/8/2013 |
| Roe 2158 | Gary Wilcox | 3/23/2012 | 5/8/2013 |
| Roe 2160 | Cynthia Williams | 3/23/2012 | 5/8/2013 |
| Roe 2161 | Ronlld Williams | 3/23/2012 | 5/8/2013 |
| Roe 2162 | Williams Fmly Tr | 3/23/2012 | 5/8/2013 |
| Roe 2164 | Donald Wilson | 3/23/2012 | 5/8/2013 |
| Roe 2168 | Wilson Family Tr | 3/23/2012 | 5/8/2013 |
| Roe 2169 | Donald Winkler | 3/23/2012 | 5/8/2013 |
| Roe 2170 | Susan Winkler | 3/23/2012 | 5/8/2013 |
| Roe 2171 | Theresa Winters | 3/23/2012 | 5/8/2013 |
| Roe 2172 | WKR360-6 LLC | 3/23/2012 | 5/8/2013 |
| Roe 2173 | Heatwig Wloczyk | 3/23/2012 | 5/8/2013 |
| Roe 2175 | Margaret Wolfe | 3/23/2012 | 5/8/2013 |
| Roe 2176 | Otis Wolfe | 3/23/2012 | 5/8/2013 |
| Roe 2177 | Gary Wong | 3/23/2012 | 5/8/2013 |
| Roe 2179 | Mai Wong | 3/23/2012 | 5/8/2013 |
| Roe 2180 | Karen Wonnell | 3/23/2012 | 5/8/2013 |
| Roe 2182 | Robert Woodall | 3/23/2012 | 5/8/2013 |
| Roe 2185 | Mary Wray | 3/23/2012 | 5/8/2013 |
| Roe 2186 | Emiko Wright | 3/23/2012 | 5/8/2013 |
| Roe 2189 | Robert Wright | 3/23/2012 | 5/8/2013 |
| Roe 2192 | Roobik Yaghoubi | 3/23/2012 | 5/8/2013 |
| Roe 2193 | Antonio Yago | 3/23/2012 | 5/8/2013 |
| Roe 2194 | Grace Yamada | 3/23/2012 | 5/8/2013 |
| Roe 2195 | Maria Yanez | 3/23/2012 | 5/8/2013 |
| Roe 2196 | Wendy Yang | 3/23/2012 | 5/8/2013 |
| Roe 2197 | Joseph Yankovich | 3/23/2012 | 5/8/2013 |
| Roe 2198 | Monica Yeomans | 3/23/2012 | 5/8/2013 |
| Roe 2199 | Tammy Yin | 3/23/2012 | 5/8/2013 |
| Roe 2201 | Barney Yoshino | 3/23/2012 | 5/8/2013 |
| Roe 2202 | Carlos Young | 3/23/2012 | 5/8/2013 |
| Roe 2203 | Julie Young | 3/23/2012 | 5/8/2013 |
| Roe 2204 | Kim Young | 3/23/2012 | 5/8/2013 |
| Roe 2205 | Bob Yu | 3/23/2012 | 5/8/2013 |
| Roe 2206 | Kyu Yu | 3/23/2012 | 5/8/2013 |
| Roe 2207 | Brian Yung | 3/23/2012 | 5/8/2013 |
| Roe 2210 | Coral Zedicher | 3/23/2012 | 5/8/2013 |
| Roe 2211 | Donald Zedicher | 3/23/2012 | 5/8/2013 |
| Roe 2212 | Hao Zhan | 3/23/2012 | 5/8/2013 |
| Roe 2213 | Stanley Zimmerman | 3/23/2012 | 5/8/2013 |
| Roe 2214 | Milton Zucker | 3/23/2012 | 5/8/2013 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 2215 | Natalie Zucker | 3/23/2012 | 5/8/2013 |
| Roe 2218 | Charlotte Zwinger | 3/23/2012 | 5/8/2013 |
| Roe 2219 | Mark McNerney | 3/23/2012 | 5/8/2013 |
| Roe 2221 | Jon Safranek | 3/23/2012 | 5/8/2013 |
| Roe 2224 | Robert Jones | 3/23/2012 | 5/8/2013 |
| Roe 2225 | James Jones | 3/23/2012 | 5/8/2013 |
| Roe 2226 | Adriana Balderra | 3/23/2012 | 5/8/2013 |
| Roe 2231 | Donald Johnson | 3/23/2012 | 5/8/2013 |
| Roe 2232 | Richard Peters | 3/23/2012 | 5/8/2013 |
| Roe 2239 | Sam Sarieddine | 3/23/2012 | 5/8/2013 |
| Roe 2240 | Mitchell Truesdale | 3/23/2012 | 5/8/2013 |
| Roe 2241 | Keith Calhoun | 3/23/2012 | 5/8/2013 |
| Roe 2242 | Barbara Schultz | 3/23/2012 | 5/8/2013 |
| Roe 2243 | Bruce Sylvies | 3/23/2012 | 5/8/2013 |
| Roe 2244 | Philip Schultz | 3/23/2012 | 5/8/2013 |
| Roe 2245 | Dralle | 3/23/2012 | 5/8/2013 |
| Roe 2248 | Alba Castillo | 3/23/2012 | 5/8/2013 |
| Roe 2249 | Selton Phillips | 3/23/2012 | 5/8/2013 |
| Roe 2250 | Moises Merestela | 3/23/2012 | 5/8/2013 |
| Roe 2251 | Diana Burke | 3/23/2012 | 5/8/2013 |
| Roe 2253 | Stanley Vong | 3/23/2012 | 5/8/2013 |
| Roe 2254 | Larry Wilborn | 3/23/2012 | 5/8/2013 |
| Roe 2255 | Michie Wilborn | 3/23/2012 | 5/8/2013 |
| Roe 2256 | John Lazarus | 3/23/2012 | 5/8/2013 |
| Roe 2257 | Lambartha Vandenberg Tr | 3/23/2012 | 5/8/2013 |
| Roe 2260 | George Sack | 3/23/2012 | 5/8/2013 |
| Roe 2261 | Palmdale Mobile Frank LLC | 3/23/2012 | 5/8/2013 |
| Roe 2265 | John Griffin | 3/23/2012 | 5/8/2013 |
| Roe 2267 | Porter Sprolls | 3/23/2012 | 5/8/2013 |
| Roe 2268 | Albert Gaba | 3/23/2012 | 5/8/2013 |
| Roe 2269 | Delia Gaba | 3/23/2012 | 5/8/2013 |
| Roe 2270 | Audrey Sprolls | 3/23/2012 | 5/8/2013 |
| Roe 2272 | Francisco Batino | 3/23/2012 | 5/8/2013 |
| Roe 2274 | Bar Or Carmit | 3/23/2012 | 5/8/2013 |
| Roe 2275 | Joseph Kinkoopf | 3/23/2012 | 5/8/2013 |
| Roe 2276 | Tina Kinkoopf | 3/23/2012 | 5/8/2013 |
| Roe 2277 | Jerry F. Shotbolt / Shotbolt Family Trust | 3/23/2012 | 5/8/2013 |
| Roe 2279 | Benjamin C Both | 3/23/2012 | 5/8/2013 |
| Roe 2280 | Christina D Both | 3/23/2012 | 5/8/2013 |
| Roe 2283 | Manuel Ariliano | 3/23/2012 | 5/8/2013 |
| Roe 2284 | Leodegaria A Ariliano | 3/23/2012 | 5/8/2013 |
| Roe 2285 | Sandra Pastor | 3/23/2012 | 5/8/2013 |
| Roe 2286 | Erik R. Hermann / Hermann Trust | 3/23/2012 | 5/8/2013 |
| Roe 2287 | Julia A Hermann / Hermann Trust | 3/23/2012 | 5/8/2013 |
| Roe 2288 | Albert T Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 2289 | Edelmira B Rodriguez | 3/23/2012 | 5/8/2013 |
| Roe 2292 | Juan A Valenzuela | 3/23/2012 | 5/8/2013 |
| Roe 2294 | Vicki Atkins / Atkins Trust | 3/23/2012 | 5/8/2013 |
| Roe 2295 | Stephen D Wahl | 3/23/2012 | 5/8/2013 |
| Roe 2296 | Mettler Valley Mutual Water Co. | 3/23/2012 | 5/8/2013 |
| Roe 2302 | John P. Starros | 8/11/2015 | 8/21/2015 |
| Roe 2305 | Frank A. Small | 8/11/2015 | 8/21/2015 |
| Roe 2316 | Joshua Acres Mutual Water Company | 8/11/2015 | 8/21/2015 |
| Roe 2318 | 40th St Mutual Water Company | 2/17/2015 | 4/1/2015 |

## DEFAULTS ENTERED

| Doe/Roe No. | Name of Roe Cross-Defendant | Default Entered | Default Posted |
|---|---|---|---|
| Roe 2323 | Lucky 18 on Rosamond, LLC | 2/17/2015 | 4/1/2015 |

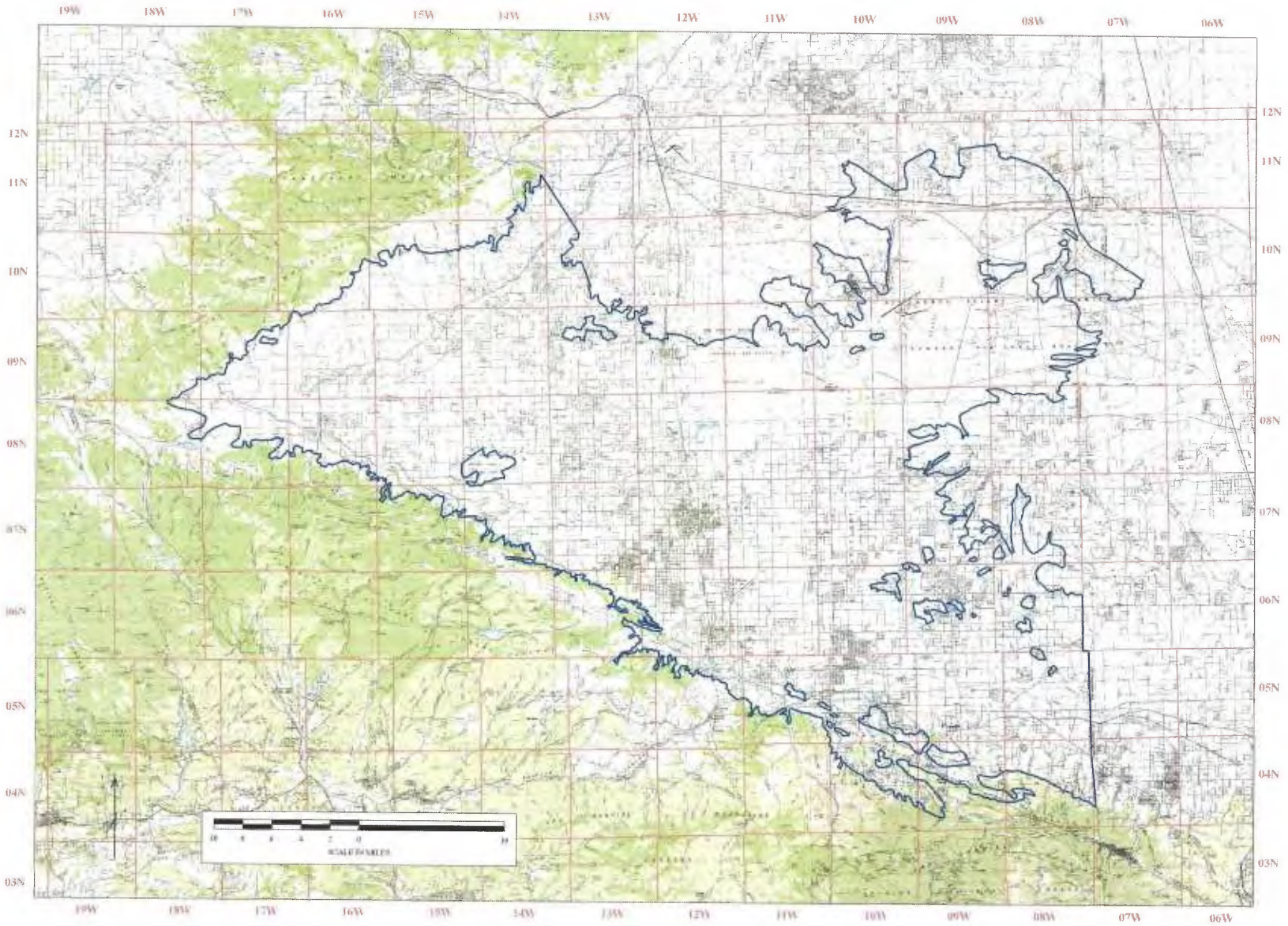



**EXHIBIT 2**

**Jurisdictional Boundary**
**Antelope Valley Groundwater Adjudication**

| **Producer Name** | **Non-Overlying Production Rights (in Acre-Feet)** | **Percentage Share of Adjusted Native Safe Yield** |
|---|---|---|
| Los Angeles County Waterworks District No. 40 | 6,789.26 | 9.605% |
| Palmdale Water District | 2,769.63 | 3.918% |
| Little Rock Creek Irrigation District | 796.58 | 1.127% |
| Quartz Hill Water District | 563.73 | 0.798% |
| Rosamond Community Services District | 404.42 | 0.572% |
| Palm Ranch Irrigation District | 465.69 | 0.659% |
| Desert Lake Community Services District | 73.53 | 0.104% |
| California Water Service Company | 343.14 | 0.485% |
| North Edwards Water District | 49.02 | 0.069% |
| Boron Community Services District | 50.00 | 0.071% |
| West Valley County Water District | 40.00 | 0.057% |
| **Total Acre Feet:** | **12,345.00** | |



# EXHIBIT 3

**Judicial Council Coordination**
**Proceeding No. 4408**
**Santa Clara Case No.: 1-05-CV-049053**

| Producer Name | Pre-Rampdown Production | Overlying Production Rights | Percentage Share of Adjusted Native Safe Yield |
|---|---|---|---|
| 60th Street Association Water System | 2.16 | 2.16 | 0.003% |
| Adams Bennett Investments, LLC | 0.00 | 0.00 | 0.000% |
| Antelope Park Mutual Water Company | 208.75 | 169.89 | 0.240% |
| Antelope Valley Joint Union High School District | 71.74 | 41.00 | 0.058% |
| Antelope Valley Mobile Estates | 19.88 | 8.75 | 0.012% |
| Antelope Valley Water Storage LLC | 1772.00 | 1772.00 | 2.507% |
| Aqua-J Mutual Water Company | 44.90 | 44.35 | 0.063% |
| AV Solar Ranch 1, LLC | 96.00 | 96.00 | 0.136% |
| AVEK | 4000.00 | 3550.00 | 5.022% |
| Averydale Mutual Water Company | 257.95 | 254.35 | 0.360% |
| Gene Bahlman | 5.25 | 5.00 | 0.007% |
| Baxter Mutual Water Company | 44.75 | 35.02 | 0.050% |
| Mark W. and Nancy L. Benz | 1.00 | 1.00 | 0.001% |
| Big Rock Mutual Water Company | 0.00 | 0.00 | 0.000% |
| Bleich Flat Mutual Water Company | 33.50 | 33.50 | 0.047% |
| Sheldon R. Blum, Trustee of the 1998 Sheldon R. Blum Family Trust | 50.00 | 50.00 | 0.071% |
| Bolthouse Properties LLC | 16805.89 | 9945.00 | 14.069% |
| Thomas and Julie Bookman 2007 Trust | 272.50 | 136.00 | 0.192% |
| James and Elizabeth Bridwell | 1.00 | 1.00 | 0.001% |
| Brittner Trust, Glen Brittner, Trustee | 4.00 | 4.00 | 0.006% |
| Burrows/300 A40 H LLC | 295.00 | 295.00 | 0.417% |
| John A. Calandri; Calandri Water Company, LLC; John A. Calandri and Shannon C. Calandri as cotrustees of “The John and Shannon Calandri 1992 Trust”; Katherine J. Calandri Nelson, Trustee of "The Katherine J. Calandri Nelson 2008 Trust” | 3803.00 | 1776.00 | 2.512% |
| Sal and Connie Cardile | 1.00 | 1.00 | 0.001% |
| Irma Ann Carle Trust, Irma-Anne Carle, Trustee | 1.00 | 1.00 | 0.001% |
| Effren Chavez | 44.00 | 44.00 | 0.062% |
| C. Louise R. Close Living Trust | 1.00 | 1.00 | 0.001% |
| Colorado Mutual Water Co. | 25.90 | 25.54 | 0.036% |
| Copa De Oro Land Company | 325.00 | 325.00 | 0.460% |
| County Sanitation Districts of Los Angeles #14 and 20 | 8000.00 | 3400.00 | 4.810% |
| Del Sur Ranch LLC | 600.00 | 600.00 | 0.849% |
| Diamond Farming Co. LLC/Crystal Organic LLC/Grimmway/Lapis | 3354.00 | 1986.00 | 2.810% |
| Randall and Billie Dickey | 1.00 | 1.00 | 0.001% |
| El Dorado Mutual Water Company | 276.05 | 272.16 | 0.385% |
| eSolar Inc.; Red Dawn Suntower LLC | 150.00 | 150.00 | 0.212% |
| eSolar, Inc.; Sierra Sun Tower, LLC | 5.76 | 3.00 | 0.004% |
| eSolar Inc.; Tumbleweed Suntower LLC | 0.00 | 0.00 | 0.000% |
| Lawrence Dean Evans, Jr. and Susan Evans | 1.00 | 1.00 | 0.001% |

| Producer Name | Pre-Rampdown Production | Overlying Production Rights | Percentage Share of Adjusted Native Safe Yield |
|---|---|---|---|
| Evergreen Mutual Water Company | 69.50 | 68.54 | 0.097% |
| Ruth C. Findley | 1.00 | 1.00 | 0.001% |
| First Mutual Water Company | 15.62 | 5.25 | 0.007% |
| Leah Frankenberg | 1.00 | 1.00 | 0.001% |
| Denise Godde, Steven F. Godde, Pamela M. Godde and Gary M. Godde; Denise Godde and Steven Godde as Trustees of the D & S Godde Trust | 1461.50 | 683.00 | 0.966% |
| Gorrindo Resourceful LLC | 629.00 | 629.00 | 0.890% |
| Granite Construction Company (Big Rock Facility) | 126.00 | 126.00 | 0.178% |
| Granite Construction Company (Little Rock Sand and Gravel, Inc.) | 400.00 | 234.00 | 0.331% |
| LAURA GRIFFIN, trustee of the FAMILY BYPASS TRUST created under the LEONARD W. GRIFFIN AND LAURA GRIFFIN TRUST, dated July 9, 1993 | 1170.00 | 668.00 | 0.945% |
| H & N Development Co. West Inc. | 1799.75 | 808.00 | 1.143% |
| Jane Healy and Healy Enterprises Inc. | 700.00 | 700.00 | 0.990% |
| Gailen W. Kyle and Julie Kyle, Trustees of The Kyle Revocable Living Trust | 9275.00 | 3670.00 | 5.192% |
| Land Projects Mutual Water Co. | 622.50 | 613.54 | 0.868% |
| Landale Mutual Water Co. | 157.75 | 155.57 | 0.220% |
| Landinv Inc | 2000.00 | 969.00 | 1.371% |
| Lands of Promise Mutual Water Company | 64.61 | 21.69 | 0.031% |
| G. Lane Family (Frank and Yvonne Lane 1993 Family Trust, Little Rock Sand and Gravel, Inc., George and Charlene Lane Family Trust) [Does not include water pumped on land leased to Granite Construction] | 1402.00 | 773.00 | 1.094% |
| James M. Leer, III and Diana Leer | 1.00 | 1.00 | 0.001% |
| Littlerock Aggregate Co., Inc., Holliday Rock Co., Inc. | 405.00 | 151.00 | 0.214% |
| Llano Del Rio Water Company | 572.65 | 279.00 | 0.395% |
| Llano Mutual Water Company | 0.00 | 0.00 | 0.000% |
| City of Los Angeles, Department of Airports | 7851.00 | 3975.00 | 5.623% |
| Jose M. Maritorena & Marie P. Maritorena, Trustees of the Maritorena Living Trust Dated March 16, 1993 | 3800.55 | 1775.00 | 2.511% |
| Dennis M. and Diane K. McWilliams | 1.00 | 1.00 | 0.001% |
| Richard Miner | 1089.40 | 999.00 | 1.413% |
| Miracle Improvement Corporation dba Golden Sands Mobile Home Park dba Golden Sands Trailer Park | 45.40 | 27.00 | 0.038% |
| Barry and Sharon Munz 2014 Revocable Trust, Terry A. & Kathleen M. Munz | 5.00 | 5.00 | 0.007% |
| Eugene B. Nebeker | 4016.00 | 1775.00 | 2.511% |

| Producer Name | Pre-Rampdown Production | Overlying Production Rights | Percentage Share of Adjusted Native Safe Yield |
|---|---|---|---|
| Richard Nelson, Willow Springs Co. | 180.65 | 135.00 | 0.191% |
| Northrop Grumman Systems Corporation | 2.00 | 2.00 | 0.003% |
| NRG Solar Alpine, LLC | 64.21 | 38.00 | 0.054% |
| R AND M RANCH, INC. | 1458.00 | 686.00 | 0.970% |
| John and Adrienne Reca | 501.45 | 251.00 | 0.355% |
| Suzanne J. Richter | 1.00 | 1.00 | 0.001% |
| Rosamond High School | 586.40 | 202.23 | 0.286% |
| Rosamond Ranch, LP | 598.00 | 598.00 | 0.846% |
| Rose Villa Apartments | 22.72 | 7.62 | 0.011% |
| Sahara Nursery and Farm | 22.18 | 22.00 | 0.031% |
| Saint Andrew's Abbey, Inc. | 175.00 | 102.00 | 0.144% |
| Lawrence J. Schilling and Mary P. Schilling, Trustees of the L&M Schilling 1992 Family Trust | 4.00 | 4.00 | 0.006% |
| Lilia Mabel Selak, TTEE; Barbara Aznarez Decd Trust and Selak, Mabel Trust | 150.00 | 150.00 | 0.212% |
| Service Rock Products, L.P. | 503.00 | 267.00 | 0.378% |
| SGS Antelope Valley Development, LLC | 57.00 | 57.00 | 0.081% |
| Shadow Acres Mutual Water Company | 52.60 | 51.74 | 0.073% |
| Sheep Creek Water Co. | 0.00 | 0.00 | 0.000% |
| Jeffrey and Nancee Siebert | 200.00 | 106.00 | 0.150% |
| Sonrise Ranch, LLC | 662.00 | 0.00 | 0.000% |
| Southern California Edison Company | 17.75 | 8.00 | 0.011% |
| Sundale Mutual Water Company | 472.23 | 472.23 | 0.668% |
| Sunnyside Farms Mutual Water Company, Inc. | 75.40 | 74.26 | 0.105% |
| Tejon Ranchcorp and Tejon Ranch Co. | 3414.00 | 1634.00 | 2.312% |
| Tierra Bonita Mutual Water Company | 40.75 | 40.32 | 0.057% |
| Tierra Bonita Ranch | 505.00 | 430.00 | 0.608% |
| Triple M Property Co. | 15.00 | 15.00 | 0.021% |
| Turk Trust dated December 16, 1998 | 1.00 | 1.00 | 0.001% |
| Marie A. Unini and Robert J. LeClair | 1.00 | 1.00 | 0.001% |
| U.S. Borax | 1905.00 | 1905.00 | 2.695% |
| Craig Van Dam, Marta Van Dam, Nick Van Dam, Janet Van Dam | 1037.00 | 640.00 | 0.905% |
| Gary Van Dam, Gertrude Van Dam, Delmar Van Dam, Delmar D. Van Dam and Gertrude J. Van Dam, as Trustees of the Delmar D. and Gertrude J. Van Dam Family Trust – 1996, Craig Van Dam, Marta Van Dam, High Desert Dairy Partnership, High Desert Dairy | 9931.50 | 3215.00 | 4.548% |
| Vulcan Materials Co., Vulcan Lands Inc., Consolidated Rock Products Co., Calmat Land Co., and allied Concrete & Materials | 519.10 | 260.00 | 0.368% |
| WAGAS Land Company LLC | 984.15 | 580.00 | 0.821% |
| WDS California II, LLC | 2397.00 | 1159.00 | 1.640% |
| Michael and Dolores A. Weatherbie | 1.00 | 1.00 | 0.001% |

| Producer Name | Pre-Rampdown Production | Overlying Production Rights | Percentage Share of Adjusted Native Safe Yield |
|---|---|---|---|
| West Side Park Mutual Water Co. | 280.75 | 276.86 | 0.392% |
| White Fence Farms Mutual Water Co. | 783.05 | 772.13 | 1.092% |
| Donna Wilson | 10.00 | 7.00 | 0.010% |
| William Fisher Memorial Water Company | 4.53 | 4.53 | 0.006% |
| **Totals** | **105878.08** | **58322.23** | |

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OF ORIGINAL FILED
Los Angeles Superior Court

JUL 18 2011

John A. Clarke, Executive Officer/Clerk

By _____, Deputy
RAUL SANCHEZ

SUPERIOR COURT OF CALIFORNIA

COUNTY OF LOS ANGELES

**ANTELOPE VALLEY GROUNDWATER CASES**

Included Consolidated Actions:

Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.
Superior Court of California
County of Los Angeles, Case No. BC 325 201

Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.
Superior Court of California, County of Kern,
Case No. S-1500-CV-254-348

Wm. Bolthouse Farms, Inc. v. City of Lancaster
Diamond Farming Co. v. City of Lancaster
Diamond Farming Co. v. Palmdale Water Dist.
Superior Court of California, County of Riverside, consolidated actions, Case Nos. RIC 353 840, RIC 344 436, RIC 344 668

Rebecca Lee Willis v. Los Angeles County Waterworks District No. 40
Superior Court of California, County of Los Angeles, Case No. BC 364 553

Richard A. Wood v. Los Angeles County Waterworks District No. 40
Superior Court of California, County of Los

Judicial Council Coordination Proceeding No. 4408

Lead Case No. BC 325 201

**STATEMENT OF DECISION PHASE THREE TRIAL**

Judge: Honorable Jack Komar

Angeles, Case No. BC 391 869

The standard for a statement of decision as set forth in Code of Civil Procedure section 632 requires a court to explain ". . . the legal and factual basis for its decision as to each of the principal controverted issues at trial...." Case law is clear that a court must provide the factual and legal basis for the decision on those issues only closely related to the ultimate issues on the case. (See *People v. Casa Blanca Convalescent Homes* (1984) 159 Cal. App. 3d 509, 523-524.) It is also clear that a court need not respond to requests that are in the nature of "interrogatories." (See *id.* at pp. 525-526.)

The only issues at this phase of the trial were simply to determine whether the adjudication area aquifer is in a current state of overdraft and as part of that adjudication to determine the safe yield. This Statement of Decision focuses solely on those issues.

Cross-complainants Los Angeles County Waterworks District No. 40, City of Palmdale, Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company, Rosamond Community Service District, Phelan Piñon Hills Community Services District, Desert Lake Community Services District, North Edwards Water District (collectively, the "Public Water Producers")[1] brought an action for, *inter alia*, declaratory relief, alleging that the Antelope Valley adjudication area groundwater aquifer was in a state of overdraft and required judicial intervention to provide for management of the water resources within the aquifer to prevent depletion of the aquifer and damage to the Antelope Valley basin.

Several of the cross-defendant parties (collectively, the "Land Owner Group") also sought declaratory relief in their various independent (now coordinated and consolidated) actions.

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[1] The United States and the City of Los Angeles, though not water suppliers in the Antelope Valley adjudication area, joined with the Public Water Producers. Rosamond Community Services District joined with the Land Owner Group.

The first issues to be decided in the declaratory relief cause of action are the issues of overdraft and safe yield. The remaining causes of action and issues are to be tried in a subsequent phase or phases.

This Phase Three trial commenced on January 4, 2011 and continued thereafter on various days based upon the needs of the various parties and the Court's availability. Appearances of counsel are noted in the minutes of the Court.

At the conclusion of the evidence, the Court offered counsel the opportunity to provide written final arguments and the invitation was declined by all counsel. On April 13, 2011, the Court heard oral argument and the matter was ordered submitted.

The Public Water Producers (and others) have alleged that the basin is in a condition of overdraft and have requested that the Court determine a safe yield and consider imposition of a physical solution or other remedy to prevent further depletion of the water resource and degradation of the condition of the aquifer.

Several parties in opposition to the request of the Public Water Producers have contended that while there may have been overdraft in the past, currently the aquifer has recovered and is not in overdraft. These same parties contend that it is not possible to establish a single value for safe yield; instead they have requested that the Court determine a range of values for safe yield.

The Court concludes that the Public Water Producers have the burden of proof and that the burden must be satisfied for this phase and purpose by a preponderance of the evidence. This burden of proof may or may not be appropriate to other phases of this trial. And since the findings here have no application to other phases, such as prescription or rights of appropriators, and the parties have not briefed those or other issues, the Court makes no conclusions as to what standard of proof might be applicable to such other issues or phases of trial.

The law defines overdraft as extractions in excess of the "safe yield" of water from an aquifer, which over time will lead to a depletion of the water supply within a groundwater basin as well as other detrimental effects, if the imbalance between pumping and extraction continues. (*City of Los Angeles v. City of San Fernando* (1975) 14 Cal. 3d 199; *City of*

*Pasadena v. City of Alhambra* (1949) 33 Cal. 2d 908, 929; *Orange County Water District v. City of Riverside* (1959) 173 Cal. App. 2d 137.) "Safe yield" is the amount of annual extractions of water from the aquifer over time equal to the amount of water needed to recharge the groundwater aquifer and maintain it in equilibrium, plus any temporary surplus. Temporary surplus is defined as that amount of water that may be pumped from an aquifer to make room to store future water that would otherwise be wasted and unavailable for use.

Determination of safe yield and overdraft requires the expert opinions of hydrologists and geologists.[2] Experts in the field of hydrogeology routinely base their opinions and conclusions concerning groundwater basin overdraft on evidence of long-term lowering of groundwater levels, loss of groundwater storage, declining water quality, seawater intrusion (not an issue in this case), land subsidence, and the like. Experts also conduct a sophisticated analysis of precipitation and its runoff, stream flow, and infiltration into the aquifer, including such things as evapotranspiration, water from other sources introduced into the aquifer (artificial recharge), as well as the nature and quantity of extractions from the aquifer and return flows therefrom.

Generally, neither overdraft nor safe yield can be determined by looking at a groundwater basin in a single year but must be determined by evaluating the basin conditions over a sufficient period of time to determine whether pumping rates have or will lead to eventual permanent lowering of the water level in the aquifer and ultimately depletion of the water supply or other harm. Recharge must equal discharge over the long term. (*City of Los Angeles v. City of San Fernando, supra*, 14 Cal. 3rd at pp. 278-279.) But having heard evidence about the aquifer as a whole, the Court is not making historical findings that would be applicable to specific areas of the aquifer or that could be used in a specific way to determine water rights in particular areas of the aquifer.

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[2] All the experts offer estimates. The American Heritage College Dictionary, Third Edition, defines an "estimate" as, *inter alia*, "[a] rough calculation, as of size" or "[a] judgment based on one's impressions; an opinion."

The location of the Antelope Valley adjudication area boundaries was the subject of the Phase One and Two trials in this matter. The Court defined the boundaries of the valley aquifer based upon evidence of hydro-connection within the aquifer. If there was no hydro-connectivity with the aquifer, an area was excluded from the adjudication. The degree of hydro-connectivity within the Antelope Valley adjudication area varies from area to area. Some areas seemingly have fairly small or nominal hydro-connectivity but must be included in this phase of the adjudication unless the connection is *de minimis*.[3] Pumping in those parts of the aquifer may be shown to have *de minimis* effect on other parts of the aquifer while pumping in other areas within the basin appear to have material impacts on adjacent parts of the basin. All areas were included within the adjudication area because they all have some level of hydro-connection, some more and some less. How to deal with those differences is ultimately a basin management decision that is well beyond the scope of this phase of trial.

**Overdraft**

The preponderance of the evidence presented establishes that the adjudication area aquifer is in a state of overdraft. Reliable estimates of the long-term extractions from the basin have exceeded reliable estimates of the basin's recharge by significant margins, and empirical evidence of overdraft in the basin corroborates that conclusion. Portions of the aquifer have sustained a significant loss of groundwater storage since 1951. While pumping in recent years has reduced and moderated, the margin between pumping and recharge as cultural conditions have changed and precipitation has increased (with the appearance of wetter parts of the historical cycle), pumping in some areas of the aquifer is continuing to cause harm to the basin. The evidence is persuasive that current extractions exceed recharge and therefore that the basin is

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[3] The court may exclude truly de minimis connectivity areas based upon evidence in later phases of the trial if shown to have virtually no impact on the aquifer.

in a state of overdraft. Since 1951[4] there is evidence of periods of substantial pumping (principally agricultural in the early years of the period) coinciding with periods of drought, with almost continuous lowering of water levels and severe subsidence in some areas extending to the present time, with intervals of slight rises in water levels in some areas.

Areas of increased pumping, with concomitant lowering of water levels, can have a serious effect on water rights in other areas, caused by cones of depression, which alter natural water flow gradients, causing the lowering of water levels in adjacent areas, with resulting subsidence and loss of aquifer storage capacity. Given population growth, and agricultural and industrial changes, the valley is at risk of being in an even more serious continuing overdraft in the future unless pumping is controlled.

While the lowering of current water levels has slowed, and some levels in wells in some areas have risen in recent years, significant areas within the aquifer continue to show declining levels, some slightly so, but many with material lowering of water levels.

Thus, the Antelope Valley adjudication area is in a state of overdraft based on estimates of extraction and recharge, corroborated by physical evidence of conditions in the basin, and while the annual amount of overdraft has lessened in recent years with increased precipitation and recharge, the effects of overdraft remain and are in danger of being exacerbated with increased pumping and the prospective cyclical precipitation fluctuations shown by the historical record. The physical evidence establishes that there was significant subsidence occurring in parts of the adjudication area ranging from two to six feet or more in certain areas of the valley caused by such pumping and that measurable water levels fell in a substantial part of the valley. While some of the ongoing subsidence may be attributable to residual subsidence (from earlier periods of shortfall) that would not seem to be an explanation for the extent of continued subsidence. The evidence establishes that ground water extractions in excess of recharge are a cause as well.

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[4] Precipitation and well records prior to that year are too sketchy to be relied upon.

**Safe Yield**

A calculation of safe yield is necessary to manage the basin or create a physical solution to a potential or actual continuing overdraft. A determination of safe yield requires an initial determination of average annual natural or native recharge to the aquifer from all sources. The only source of natural or native recharge for the Antelope Valley is precipitation that recharges the aquifer and it is therefore necessary to ascertain average annual precipitation. The calculation of annual average precipitation can only be determined by using a baseline study period that covers precipitation in periods of drought and periods of abundant precipitation over a sufficient period of time that a reliable estimate of average future recharge based on precipitation can be made.

It has been suggested that safe yield could be based on using shorter base periods or more than one base period, (the total time span of which was considerably less than the 50 year period the Court believes is more credible). If the purpose of selecting a base period is to determine average recharge over time based on precipitation, choosing two consecutive periods of time with two different average numbers would not serve that purpose and would preclude estimating a single safe yield. Likewise, selecting a base period that does not have completely representative precipitation cycles over time would not provide an accurate evaluation of conditions in the valley. A base period that calculates average precipitation over a representative period of time permits reliable predictions about future natural recharge based on regular recurring precipitation cycles. A period of precipitation fluctuations from 1951 to 2005 satisfies that standard. Shorter periods do not.

The Court finds that current extraction of water from the aquifer by all pumping ranges from 130,000 to 150,000 acre feet a year, but in any event, is in excess of average annual recharge. The major area of dispute between the parties is the average amount of natural recharge, which also involves disputes concerning return flows, the amount of native vegetation water needs, evapotranspiration, stream flow, runoff, groundwater infiltration, specific yield, lag

time, bedrock infiltration, agricultural crop needs, and the like. Other sources of recharge to the basin, including artificial recharge-water pumped into the aquifer from external sources are not in dispute.

Evidence established that during the entire historical period presented, populations increased within the valley and water use changed in a variety of ways. There has been a shift in some areas to urban uses and away from agriculture although in recent years agricultural pumping has also increased. The nature of agricultural duties has changed as well. The type of irrigation used by farmers has become more efficient and less water is needed per acre (depending on the crops grown) with more efficient uses of water. But there has also been an increase as well as a change in the nature of the type of agriculture in the valley in material quantities in recent years. More of such changes may occur and it is important to both current and future generations to ensure that the water resources within the basin are managed prudently.

The Court heard from a very large number of experts, some of whom have provided opinion testimony of what constitutes safe yield. All the experts testifying acknowledged that changes in the selection of a base study period, lag time, agricultural water duties, evapotranspiration, specific yield, runoff quantities, well level contours, bedrock infiltration, return flows, playa evaporation relating to run off and bedrock infiltration, chloride measurements, satellite imaging, and agricultural and municipal pumping estimates, among others, would affect the ultimate opinion of natural recharge and return flows.

The opinions of all the experts are estimates, based upon their professional opinion. All of the opinions were critiqued by other experts who often had different opinions. The Court recognizes the imprecision of the various estimates and the fact that an estimate by definition is imprecise. But the fact that estimates lack precision does not mean that the Court cannot rely upon such estimates. The scientific community relies upon such estimates in the field of hydrogeology and the Court must do the same.

Reasonable experts can differ as to reasonable estimates of natural recharge and virtually all other components of water budgets, computations of change of storage, and the

like, all the while using the same formulae and scientific principles to reach their conclusion. For example, all the experts could agree on the definition of "Darcy's Law" and the physics principle of "conservation of mass" but still reach different conclusions.

Some of the experts opined that the basin was not in overdraft and that recharge was in excess of or in balance with extractions so that there was a surplus in the aquifer. One expert opined that loss of storage was merely space for temporary storage. Observable conditions in the valley are inconsistent with those conclusions. If there were a surplus, even in the shortened base periods used by the some experts, there should not be subsidence of land, nor the need to drill for water at deeper and deeper levels in those parts of the aquifer most affected by the overdraft. The physical condition of the valley is inconsistent with those estimates that there is and has been a surplus of water in the aquifer.

The selection of a safe yield number for an aquifer the size of the Antelope Valley is made difficult because of not only its size but because of the complexity of its geology. As reflected above, hydro-connectivity and conductivity varies considerably between various parts of the aquifer. The hydro-connectivity between some portions of the adjudication area aquifer and others is so slight as to be almost (apparently) nonexistent. Pumping in those areas may have little or no effect on other areas of the aquifer. The Antelope Valley basin is not like a bathtub where lowering and raising of water levels is equal in all parts of the "tub."

Therefore, assigning a safe yield number (what quantity of pumping from the basin will maintain equilibrium in the aquifer) may require different numbers for different parts of the aquifer (and clearly may also provide for some level of separate management). No attempt has been made in this phase of trial to define geological differences in the valley that would justify different safe yield numbers for different parts of the valley in light of the decision in Phase Two regarding connectivity (the Phase Two trial focused on hydro-connectivity for purposes of determining necessary parties to the action).

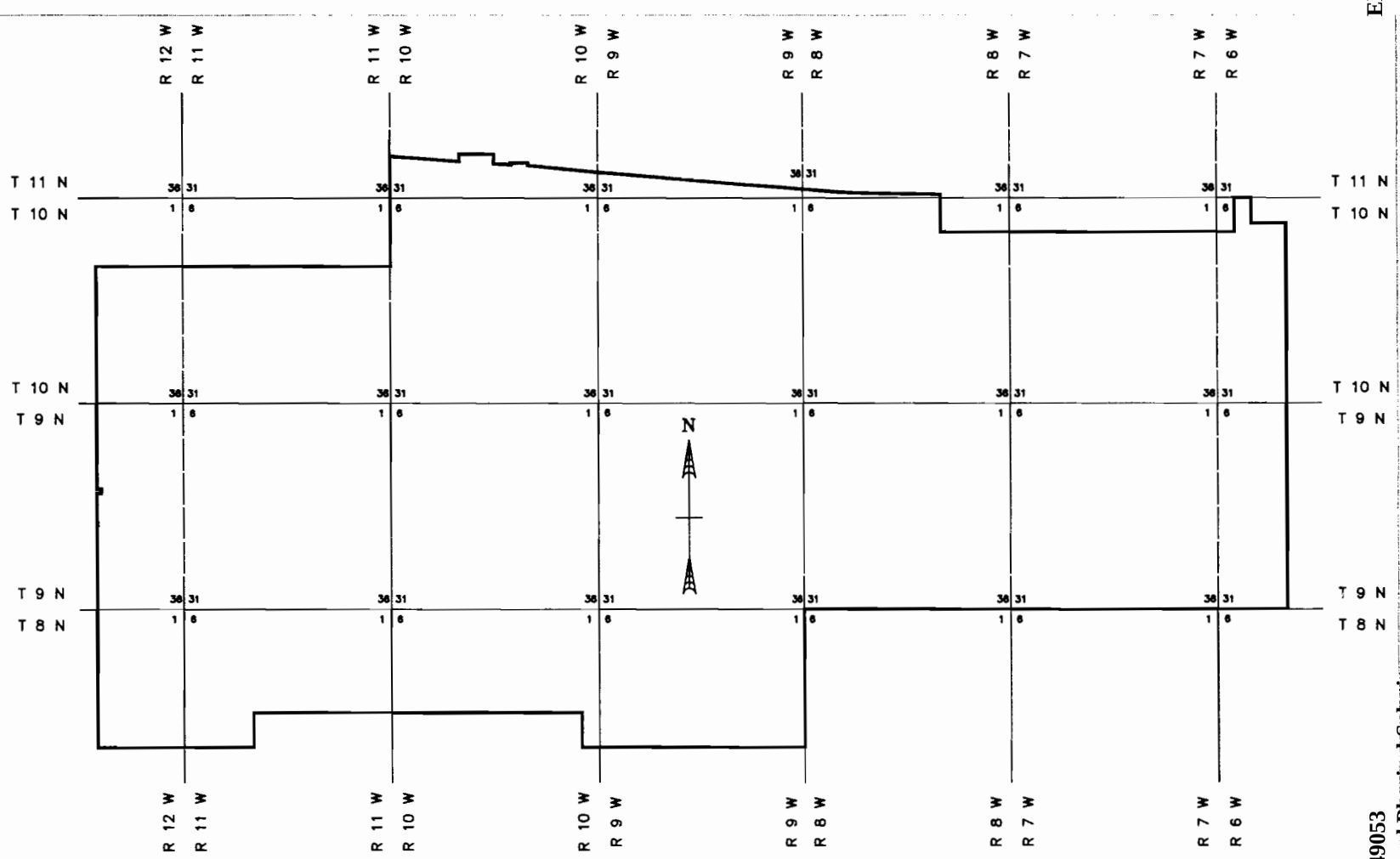
Weighing the various opinions of the experts, however, the Court finds by a preponderance of the evidence that conservatively setting a safe yield at 110,000 acre feet a

year will permit management of the valley in such a way as to preserve the rights of all parties in accordance with the Constitution and laws of the State of California. Some portions of the aquifer receive more recharge than others and pumping requirements vary. These differences require management decisions that respect the differences in both the geology and the cultural needs of the diverse parts of the valley.

It should not be assumed that the safe yield management number may not change as climate circumstances and pumping may change, or as the empirical evidence based on experience in managing the basin suggests it is either too high or too low.

Dated: JUL 13 2011

Hon. Jack Komar
Judge of the Superior Court




**SCHEMATIC**

NOT TO SCALE; BAR SCALE BELOW IS APPROXIMATE ONLY.

0 3 6 9 12

SCALE IN MILES

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SOUTH PACIFIC DIVISION
LOS ANGELES DISTRICT REAL ESTATE DIVISION

EDWARDS AIR FORCE BASE
LOS ANGELES, KERN & SAN BERNARDINO COUNTIES, CA
BASE BOUNDARY (PERIMETER) DIAGRAM

9 JUNE 2000 DWG 273-M-PER

EXHIBIT 6

1-05-CV-049053

Judgment and Physical Solution

EXHIBIT 7

20th Street East

Avenue M

Site 1

Site 2

Site 3

Site 4

Avenue N

Emergency Landing Area
(See Inset A)

Sierra Highway

OL AFP 42
Site 5

OL AFP 42
Site 5

Site 8

Site 7

Site 6

LAWA
Property

Lockheed Martin
Property

15th Street East

20th Street East

25th Street East

Avenue P

LEGEND

- Air Force Plant 42 Boundary
- Industrial Plant Boundary
- RAIL LINE
- ROAD
- SECURITY FENCE
- BUILDING

GRAPHIC SCALE

700' 0' 350' 700' 1400' 2100'

SCALE 1" =700'

N

Inset A

Avenue N

10th Street West

Emergency Landing Area

Sierra Highway

| MARK | DATE | DESCRIPTION | BY |
|---|---|---|---|
| REVISIONS | | | |

| MARK | DATE | DESCRIPTION | BY |
|---|---|---|---|
| REVISIONS | | | |

PRODUCTION FLIGHT TEST INSTALLATION

UNITED STATES AIR FORCE PLANT NO. 42

PALMDALE CALIFORNIA

1941 to 2011

OPERATIONS + MAINTENANCE AF PLANT 42 PALMDALE , CALIFORNIA

PREPARED BY:
U.S. AIR FORCE, PLANT 42

PREPARED FOR:
AIR FORCE PLANT 42,
OPERATIONS AND MAINTENANCE MANAGER

APPROVED BY:
CHIEF ENGINEER, AF PLANT 42

DRAWING NO. P42XXXXX-101

AIR FORCE PLANT 42
2501 E AVENUE P
PALMDALE, CALIFORNIA 93550
(661) 272-6629 - FAX 272-6610

Integrity First, Service Before Self, and Excellence in All We Do

Air Force Plant 42
Installation Layout

| DESIGNED | TRACED | JOB NO. |
|---|---|---|
| | | 420 |
| DRAWN | CHECKED | DATE |
| | | 27 May 14 |

P4210242-101 SHEET 1 OF 1

1:05-CV-04953
Judgment and Physical Solution

# Rights to Produce Imported Water Return Flows

A.V. MATERIALS, INC.

ANTELOPE VALLEY COUNTRY CLUB

ANTELOPE VALLEY EAST-KERN WATER AGENCY

ANTELOPE VALLEY WATER COMPANY

ANTELOPE VALLEY WATER STORAGE, LLC

BORON COMMUNITY SERVICES DISTRICT

CALIFORNIA DEPARTMENT OF PARKS

CALIFORNIA WATER SERVICE COMPANY

COPA DE ORO LAND COMPANY, A CALIFORNIA GENERAL PARTNERSHIP

CRYSTAL ORGANIC FARMS, LLC

DESERT LAKE COMMUNITY SERVICES DISTRICT

DIAMOND FARMING COMPANY

EDGEMONT ACRES MWC

EL DORADO MUTUAL WATER COMPANY

EYHERABIDE, RAY/EYHERABIDE SHEEP CO.

GEORGE LANE, AS TRUSTEE OF THE GEORGE AND CHARLENE LANE

FAMILY TRUST, DATED 12/19/2007

GOODE, FORREST G. 1998 TRUST

GRANITE CONSTRUCTION COMPANY

GRIMMWAY ENTERPRISES, INC.

H & N DEVELOPMENT CO. WEST

HARTER, SCOTT

LANDALE MUTUAL WATER CO.

LITTLEROCK CREEK IRRIGATION DISTRICT

LITTLEROCK SAND AND GRAVEL, INC.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40

PALMDALE WATER DISTRICT

PALM RANCH IRRIGATION DISTRICT

QUARTZ HILL WATER DISTRICT

ROSAMOND COMMUNITY SERVICES DISTRICT

SAINT ANDREW'S ABBEY, INC.

SHADOW ACRES MUTUAL WATER COMPANY.

SUNNYSIDE FARMS MUTUAL WATER COMPANY, INC.

TEJON RANCHCORP/TEJON RANCH CO.

U.S. BORAX & CHEMICAL CO.

WARNACK, A.C. AS TRUSTEE OF THE A.C. WARNACK TRUST

WEST SIDE PARK MUTUAL WATER CO.

WHITE FENCE FARMS MUTUAL WATER CO.

# Antelope Valley Adjudication Area
# Proposed Adjudication Boundary

- Aqueducts
- Perennial Streams
- Seasonal Streams
- Faults
- EAFB Production Wells
- Gauging Stations

NOTE:
AFA = Acre Foot Average (Annual)

- Dept of Defense
- Bureau of Land Management
- U.S. Forest Service
- Other Federal
- State-County-Municipal
- Private
- Antelope Valley Groundwater Basin Boundary
- Boundary Of The Antelope Valley Watershed Contributory To The Antelope Valley Groundwater Basin

0 5 10 15 20 25
Miles

N

29JUN06
95ABW/CETM
ric.williams@edwards.af.mil

Arvin
Tehachapi
California City
Mojave
Rosamond
Lancaster
Palmdale
Littlerock
Acton
Boron
North Edwards
Edwards AFB
Plant 42
Lake Los Angeles
Adelanto
Victorville
Phelan
Hesperia
Wrightwood
Valyermo
No Data

Kern County
Los Angeles County
San Bernardino County

AFA 33
AFA 197
AFA 54
AFA 946
AFA 3
AFA 10
AFA 8
AFA 2
AFA 0
AFA 23
AFA 39
AFA 38
AFA 28
AFA 65
AFA 4
AFA 16
AFA 26
AFA 5
AFA 94
AFA 333
AFA 206
AFA 7190
AFA 160
AFA 5301
AFA 111
AFA 12531

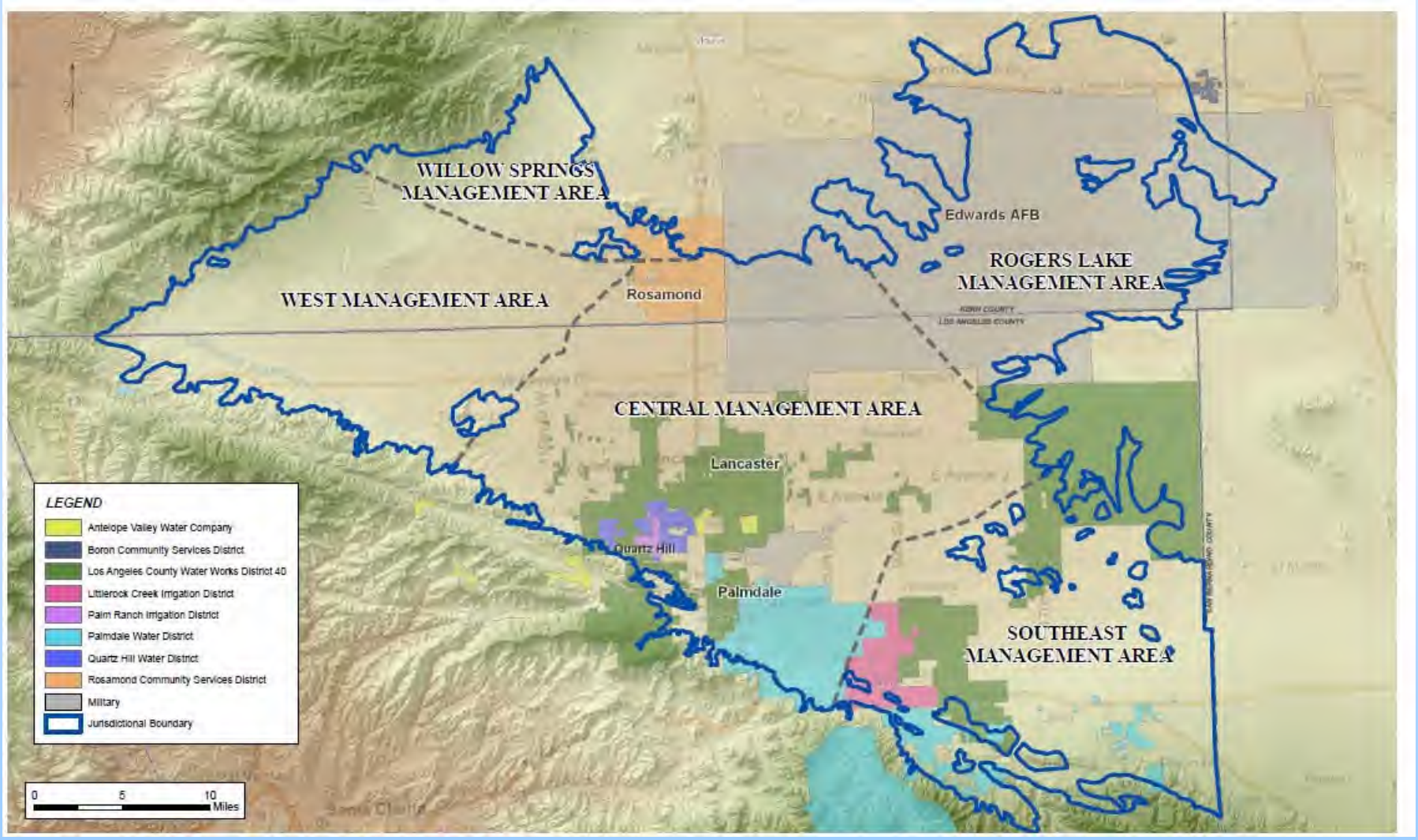
Garlock Fault Zone
Cottonwood Creek
Oak Creek
Willow Springs Fault
Randsburg-Mojave Fault
Los Angeles Aqueduct
Neenach Fault
California Aqueduct
Little Rock Creek
Big Rock Creek

District 14

1-05-CV-049053
Judgment and Physical Solution

**EXHIBIT 9**

# SUBAREAS


WILLOW SPRINGS MANAGEMENT AREA
Edwards AFB
ROGERS LAKE MANAGEMENT AREA
WEST MANAGEMENT AREA
Rosamond
CENTRAL MANAGEMENT AREA
Lancaster
Quartz Hill
Palmdale
SOUTHEAST MANAGEMENT AREA
LEGEND
Antelope Valley Water Company
Boron Community Services District
Los Angeles County Water Works District 40
Littlerock Creek Irrigation District
Palm Ranch Irrigation District
Palmdale Water District
Quartz Hill Water District
Rosamond Community Services District
Military
Jurisdictional Boundary
0
5
10
Miles

FILED
Superior Court of California
County of Los Angeles

SEP 29 2015

Sherri R. Carter, Executive Officer/Clerk
By A. Barton Deputy
A. Barton

**SUPERIOR COURT OF THE STATE OF CALIFORNIA**

**FOR THE COUNTY OF LOS ANGELES**

| | |
|---|---|
| **ANTELOPE VALLEY GROUNDWATER CASES**<br><br>This Pleading Relates to Included Action: REBECCA LEE WILLIS, on behalf of herself and all others similarly situated,<br><br>Plaintiff,<br><br>vs.<br><br>LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICE DISTRICT; and DOES 1 through 1,000;<br><br>Defendants. | JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408<br><br>CASE NO. BC 364553<br><br>~~[PROPOSED]~~ **SECOND AMENDED FINAL JUDGMENT APPROVING WILLIS CLASS ACTION SETTLEMENT**<br><br>DOCUMENT FILED NUNC PRO TUNC<br><br>AS OF SEPTEMBER 22, 2011<br><br>Judge: Hon. Jack Komar<br>Coordination Trial Judge |

This matter has come before the Court on the Motion of Plaintiff Rebecca Lee Willis (Willis) for Final Approval of the Proposed Class Action Settlement between and among Rebecca Lee Willis and the Willis Class, on the one hand; and Los Angeles County Waterworks District No. 40, City of Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company,



1-05-CV-049053 APPENDIX A

Judgment and Physical Solution

Rosamond Community Service District, Phelan Pinon Hills Community Services District, Desert Lake Community Services District, and North Edwards Water District (collectively, the "Settling Defendants"), on the other hand.

By Order dated November 18, 2010, this Court granted Plaintiff's Motion for Preliminary Approval of the Proposed Settlement of this action and directed the sending of Notice to the Willis Class. After considering all arguments and submissions for and against final approval of the proposed settlement, and being fully advised of the premises, **IT IS HEREBY ORDERED, ADJUDGED AND DECREED AS FOLLOWS, PURSUANT TO SECTIONS 382 AND 664.6 OF THE CODE OF CIVIL PROCEDURE:**

1. For over 10 years, a number of actions have been pending in the Los Angeles County Superior Court and other California courts seeking an adjudication of various parties' respective rights to the groundwater underlying the Antelope Valley Groundwater Basin (the "Basin").

2. A number of cases raising such issues were coordinated by a July 11, 2005 Order of Judicial Council and assigned to the Honorable Jack Komar of the Superior Court for the County of Santa Clara (the "Court").

3. The Court held an initial phase of trial on October 2006 with respect to the boundaries of the Basin and issued an Order on November 3, 2006 defining the Basin for purposes of the litigation.

4. The Willis Class Action was filed on or about January 11, 2007 to contest certain public entities' claims that those entities had obtained prescriptive rights to a portion of the Basin's groundwater. The Willis case was subsequently coordinated with the Coordinated Cases.

5. By Order dated September 11, 2007, the Court certified the Willis Class. As

amended by Orders dated May 22, 2008 and September 2, 2008, the Willis Class is defined as follows:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity with which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as 'improved' by Los Angeles or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties. The Class shall [further] exclude all persons to the extent they own properties within the Basin on which they have pumped water at any time."

6. Notice of the Pendency of this action was sent to the Wilis Class in or about January 1, 2009 and the opt-out period (as extended) expired on August 30, 2009. Certain persons who opted out were subsequently permitted to rejoin the Class.

7. The persons listed on Exhibit 1 hereto validly excluded themselves from the Class in accordance with this Court's prior Orders (and have not re-joined the Class) and are not bound by the Settlement or this Judgment.

8. Counsel for the Willis Class engaged in settlement discussions with Defendants' counsel during mid 2009. On September 2, 2009, counsel participated in mediation session before the Honorable Ronald Robie. That mediation resulted in an agreement in principle amoung counsel for the Settling Parties to settle the litigation between and among their respective clients, subject to appropriate approvals.

9. By Order dated October 28, 2009, the Court stated its intent to consolidate the various Actions that were coordinated as part of JCCP No. 4408, including the Willis action.

On February 19, 2010, the Court entered an Order Transferring and Consolidating [the Coordinated] Actions for All Purposes. As provided in the Consolidation Order, this Final Judgment shall not be construed to prejudice the rights of any of the Non-Settling Parties in the Consolidated Actions nor shall it prejudice the claims and defenses that the Settling Parties may assert with respect to such Non-Settling Partties.

10. By Order dated November 18, 2010, this Court granted preliminary approval to the proposed settlement of this action and directed that Notice of the Proposed Settlement be sent to the Class.

11. Notice of the Proposed Settlement has been sent to the Willis Class by first class mail in accordance with the Court's Preliminary Approval Order. Such Notice fully and accurately informed the Class of all material terms of the proposed settlement and the opportunity to object to or comment on the Settlement. The Notice was given in an adequate and sufficient manner, constituted the best notice practicable under the circumstances, and satisfied due process.

12. The Settling Parties and each class member have irrevocably submitted to the jurisdiction of this Court for any suit, action, proceeding or dispute arising out of the Settlement Agreement.

13. It is in the best interest of the parties and the Class Members and consistent with principles of judicial economy that any dispute between any class member (including any dispute as to whether any person is a class member) and any Settling Defendant which is in any way related to the applicability or scope of the Settlement Agreement or the Final Judgment should be presented to this Court for resolution.

14. The Stipulation of Settlement submitted by the Settling Parties is hereby finally approved as fair, reasonable, and in the best interests of the Class, and the parties are directed to consummate the Settlement in accordance with its terms. A true and correct copy of the Stipulation of Settlement is attached as Exhibit 2.

15. The Complaint in the Willis Action shall be deemed dismissed with prejudice as

soon as the Final Judgment becomes effective under the terms of the Settlement Stipulation.

16. For purposes of this Final Judgment, "Released Parties" means Plaintiff Rebecca Lee Willis and the Willis Class, as well as Defendants Los Angeles County Waterworks District No. 40; The City of Palmdale; Palmdale Water District; Littlerock Creek Irrigation District; Palm Ranch Irrigation District; Quartz Hill Water District; California Water Service Company; Rosamond Community Service District; Phelan Pinon Hills Community Services District; Desert Lake Community Services District; and North Edwards Water District.

17. The Court hereby orders that the Released Parties are released and forever discharged from the Released Claims as more specifically provided in the Stipulation of Settlement.

18. The Class members and their heirs, executors, administrators, successors, and assigns are hereby permanently barred and enjoined from instituting, commencing, prosecuting, or continuing to prosecute, either directly or indirectly, any Released Claim against any of the Released Parties in any form, other than claims to enforce the terms of the Settlement. Each Class member may hereafter discover facts other than or different from those which he or she knows or believes to be true with respect to the Released Claims. Nevertheless, each member of the Class (except those who timely opted out) waive and fully, finally and forever settle and release, upon the Settlement Agreement becoming final, any known or unknown, suspected or unsuspected, contingent or noncontingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts.

19. The Settling Defendants and their heirs, executors, administrators, successors, and assigns are hereby permanently barred and enjoined from instituting, commencing, prosecuting, or continuing to prosecute, either directly or indirectly, any Released Claim against any of the Class Members in any forum, other than claims to enforce the terms of the Settlement. Each Settling Defendant may hereafter discover facts other than or different from those which he or she knows or believes to be true with respect to the Released Claims. Nevertheless, each Settling Defendant waives and fully, finally and forever settles and releases, upon the Settlement

Agreement becoming final, any known or unknown, suspected or unsuspected, contingent or noncontingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts.

20. Without affecting the finality of this Judgment, the Court hereby reserves and retains jurisdiction over this Settlement, including the administration and consummation of the Settlement, as well as any action or proceeding brought to enforce the Settlement. In addition, without affecting the finality of this Judgment, the Court retains jurisdiction over the Parties for purposes of incorporating and merging this Judgment into a physical solution or other Judgment that may ultimately be entered in the Consolidated Actions. The Settling Parties are hereby deemed to have submitted irrevocably to the exclusive jurisdiction of this Court for any suit, action, proceeding or dispute arising out of or relating to this Judgment or the Settlement.

21. The Court after considering the pleadings on file herein, and the arguments of counsel, awards the Willis Class attorneys fees in the amount of $1,839,494, an incentive award for Ms. Rebecca Willis in the amount of $10,000, costs in the amount of $65,057.68, and supplemental attorneys fees in the amount of $160,622.50. Judgment in the amount of $2,075,174.18 is hereby entered for the Willis Class against Los Angeles County Waterworks District No. 40, City of Palmdale, Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company, Rosamond Community Service District, Phelan Pinon Hills Community Services District, Desert Lake Community Services District, and North Edwards Water District.

Date: 9-29-2015

Judge of the Superior Court
Honorable Jack Komar

Ralph B. Kalfayan (SBN 133464)
Lynne M. Brennan (SBN 149131)
KRAUSE KALFAYAN BENINK & SLAVENS, LLP
550 West C Street, Suite 530
San Diego, CA 92101
Tel: (619) 232-0331
Fax: (619) 232-4019

Class Counsel for the Willis Class

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

**ANTELOPE VALLEY GROUNDWATER CASES**

This Pleading Relates to Included Action: REBECCA LEE WILLIS and DAVID ESTRADA, on behalf of themselves and all others similarly situated,

*Plaintiffs,*

v.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICE DISTRICT; PHELAN PINON HILL COMMUNITY SERVICE DISTRICT; and DOES 1 through 1,000;

*Defendants.*

RELATED CASE TO JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408

**PROOF OF SERVICE**

I, Cindy Barba, declare:

I am a citizen of the United States and employed in San Diego County, California. I am over the age of eighteen years and not a party to the within-entitled action. My business address is Krause Kalfayan Benink & Slavens, LLP 550 West C Street, Suite 530, San Diego, California, 92101. On November 20, 2015, I caused the following document(s): to be served on the parties in this action, as follows:

**SECOND AMENDED FINAL JUDGMENT APPROVING WILLIS CLASS ACTION SETTLEMENT**

(X) (BY ELECTRONIC SERVICE) by posting the document(s) listed above to the Santa Clara County Superior Court website: www.scefiling.org regarding the Antelope Valley Groundwater matter.

( ) (BY U.S. Mail) I am readily familiar with the firm's practice of collection and processing of documents for mailing. Under that practice, the above-referenced documents(s) were placed in sealed envelope(s) addressed to the parties as noted above, with postage thereon fully prepaid and deposited such envelope(s) with the United States Postal Service on the same date at San Diego, California, addressed to:

( ) (BY FEDERAL EXPRESS) I served a true and correct copy by Federal Express or other overnight delivery service, for the delivery on the next business day. Each copy was enclosed in an envelope or package designed by the express service carrier; deposited in a facility regularly maintained by the express service carrier or delivered to a courier or driver authorized to receive documents on its behalf; with delivery fees paid or provided for; addressed as shown on the accompanying service list.

( ) (BY FACSIMILE TRANSMISSION) I am readily familiar with the firm's practice of facsimile transmission of documents. It is transmitted to the recipient on the same day in the ordinary course of business.

(X) (STATE) I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

( ) (FEDERAL) I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Cindy Barba

# Exhibit 1

| | LAST | FIRST | MIDDLE |
|---|---|---|---|
| 1 | 190TH AVENUE WEST LLC | | |
| 2 | 1ST AND 41ST WEST LLC | | |
| 3 | 20TH STREET PROPERTIES | | |
| 4 | 300 A 40 H LLC | | |
| 5 | 3M PROPERTY INVESTMENT CO | | |
| 6 | 88 317 4 PARTNERSHIP | | |
| 7 | A V FOOTHILLS LLC | | |
| 8 | ABC DIAMONDS INC | | |
| 9 | ABOLMOLUKI | MEHRAN | D |
| 10 | ACEH CAPITAL | | |
| 11 | ACEH CAPITAL GROUP LLC | | |
| 12 | ACEH CAPITAL LLC | | |
| 13 | ACEH CAPITAL LLC 401K AND PROFIT | | |
| 14 | ACOSTA | ANTONIO | T |
| 15 | ADAMS | MIRIAM | |
| 16 | ADICOFF | ARNOLD | |
| 17 | AGALSOFF | JAMES | N |
| 18 | AGRICULTURAL AND ANIMAL WASTE | | |
| 19 | AGUILAR | CARLITO | R |
| 20 | AGUILAR | CARMEN | C |
| 21 | AGUILAR | VALENTIN | |
| 22 | AGUILAR | YOLANDA | |
| 23 | AKIN | MARTHA | |
| 24 | ALARCON | CYNTHIA | E |
| 25 | ALARCON | JOHN | |
| 26 | ALBRIGHT | JACK | R |
| 27 | ALESSO | CASEY | H |
| 28 | ALESSO | JOHN | S |
| 29 | ALESSO | LAWRENCE | V |
| 30 | ALESSO | LAWRENCE | V |
| 31 | ALEXANDER | DONALD | R |
| 32 | ALLEN | BETTY | A |
| 33 | ALLEN | BRUCE | |
| 34 | ALLEN | BRUNETTE | H |
| 35 | ALLEN | GEORGE | F |
| 36 | ALLEN | GUADALUPE | |
| 37 | ALLEN | RONALD | |
| 38 | ALLISON | PAUL | R |
| 39 | ALLISON | YVONNE | D |
| 40 | ALLUIS | DEBORAH | J |
| 41 | ALLUIS | JACK | C |
| 42 | ALMAREZ | MARY | B |
| 43 | ALND | FARHAD | |
| 44 | ALND | HERSELL | |
| 45 | ALONSO | JORGE | D |
| 46 | ALONSO | LAURA | B |
| 47 | ALP EQUIPMENT SALES INC | | |
| 48 | ALVAREZ | FELIPE | |
| 49 | ALVIDREZ | MARY | M |
| 50 | ALVIDREZ | RICHARD | |
| 51 | AMENTO | CHARLES | A |

| | | | |
|---|---|---|---|
| 52 | AMENTO | SHEILA | D |
| 53 | AMERI | HAMID | |
| 54 | AMERICAN LANDMARK GROUP LLC | | |
| 55 | AN VAN PHAN TR | | |
| 56 | ANAVERDE LLC | | |
| 57 | ANDERSON | BEATRICE | K |
| 58 | ANDERSON | DONNA | |
| 59 | ANDERSON | KEITH | |
| 60 | ANDERSON | RENEE | S |
| 61 | ANDREWS | FRANKLIN | D R |
| 62 | ANDREWS | TREBA | |
| 63 | ANIEVAS | ARMANDO | |
| 64 | ANNIS | SHARON | A |
| 65 | ANTELOPE VALLEY ALLIED ARTS ASSN | | |
| 66 | ANTELOPE VALLEY EAST KERN WATER | | |
| 67 | ANTELOPE VALLEY EAST KERN WATER AGENCY | | |
| 68 | ANTELOPE VALLEY FLORIST INC | | |
| 69 | ANTELOPE VALLEY JOINT UNION HIGH | | |
| 70 | ANTELOPE VALLEY WATER STORAGE LLC | | |
| 71 | AOKI | KEIKO | |
| 72 | APOSTOL | JOVENCIO | A |
| 73 | APPLEBY | FRANCES | R |
| 74 | APPLEBY | THOMAS | N |
| 75 | AREVALO | BENEDICTO | L |
| 76 | AREVALO | NORA | M |
| 77 | ARKLIN | PHILIP | H |
| 78 | ARKLIN | PHILIP | H |
| 79 | ARKLIN BROTHERS ENTERPRISES | | |
| 80 | ARNOLD | FLORENCE | B |
| 81 | ARQUILETA | LUCITA | G |
| 82 | ARQUILETA | RUFINO | O |
| 83 | ARROYO FAMILY TRUST | | |
| 84 | ASATO | NOBORU | |
| 85 | ASCENCIO | JESUS | |
| 86 | ASHER | ALIZA | |
| 87 | ASHER | SHAUL | |
| 88 | AUYONG | GERARD | H W |
| 89 | AV FOOTHILLS LLC | | |
| 90 | AVENI | JANE | C |
| 91 | AVERY | LLOYD | F |
| 92 | AVRICK | ALAN | M |
| 93 | BAERLEIN | JACK | |
| 94 | BAHLMAN | GENE | T |
| 95 | BAKER | EDNA | L |
| 96 | BALICE | MARIA | M |
| 97 | BALICE | NORMAN | E |
| 98 | BALLESTEROS | EMILIANO | Q |
| 99 | BANALES | RAFAEL | |
| 100 | BANDUCCI ENTERPRISES | | |
| 101 | BANDUCCI LAND LLC | | |
| 102 | BANGLOY | JUANITA | S |
| 103 | BANGLOY | LUANITA | S |

| | | | |
|---|---|---|---|
| 104 | BANUELOS | BERNARDO | |
| 105 | BANUELOS | ROSARIO | |
| 106 | BANUK | PATRICIA | A |
| 107 | BANUK | RON | |
| 108 | BAR | OR | CARMIT |
| 109 | BARBEAU | IRENE | |
| 110 | BARNES | ANN | |
| 111 | BARNES | WAYNE | L |
| 112 | BARON | TERRI | J |
| 113 | BARTFAY | JOSEPH | V |
| 114 | BARTFAY | SELMA | |
| 115 | BATINO | FRANCISCO | B |
| 116 | BAUER | NANCY | L |
| 117 | BEASLEY | A | L |
| 118 | BECARRA | TERESA | |
| 119 | BECK | WILLIAM | A |
| 120 | BECKER | IKUKO | |
| 121 | BEDERIO | BETTY | J |
| 122 | BELISARIO | BEATRIZ | S |
| 123 | BELISARIO | LUIS | B |
| 124 | BELL TR | | |
| 125 | BELLANCA | BEVERLY | J |
| 126 | BELTRAN | CECILIA | J |
| 127 | BENNER | VICTORIA | A |
| 128 | BENSKY LIVING TRUST | | |
| 129 | BENZ | MARK | W |
| 130 | BENZ | NANCY | |
| 131 | BERGLUND | GAYLYN | |
| 132 | BERGLUND | KENNETH | G |
| 133 | BERGLUND | KENNETH | |
| 134 | BERKEY | JANET | STARR |
| 135 | BERMUNDO | AMANTE | B |
| 136 | BIERS | ARY | E |
| 137 | BIERS | ROBERT | G |
| 138 | BIK | KUEN | |
| 139 | BIMBIRIS | ALFONS | |
| 140 | BIMBIRIS | VERA | |
| 141 | BITTNER | MELVIN | S |
| 142 | BLACK | CATHERINE | LUELLA |
| 143 | BLANCHARD | ANITA | MAY |
| 144 | BLILEY | BETTY | J |
| 145 | BLILEY | EUGENE | E |
| 146 | BLOCK | EUGENE | S |
| 147 | BOCANEGRA | JOSE | A |
| 148 | BODKIN | JAMES | R |
| 149 | BODOLAI | FRANK | |
| 150 | BODOLAI | MAGDALENA | |
| 151 | BORON COMMUNITY SERVICE DIST | | |
| 152 | BORUCHIN | DORA | |
| 153 | BORUCHIN | JOHN | |
| 154 | BOSQUE | MINH | M |
| 155 | BOVEE | GAYLE | |

| | | | |
|---|---|---|---|
| 156 | BOVEE | VICKI | |
| 157 | BOYLE | FLOYD | F |
| 158 | BOYLE | MARIA | C |
| 159 | BPP VALLEY CENTRAL | | |
| 160 | BRADLEY | KATHLENE | K |
| 161 | BRADLEY | MONROE | |
| 162 | BRADLEY FAMILY TR | | |
| 163 | BRALY | DENNIS | L |
| 164 | BRAMLETT | MARK | F |
| 165 | BRAMLETT | MARK | F |
| 166 | BRASEL FAMILY TR | | |
| 167 | BRAUN | FLORA | |
| 168 | BREWER | JOE | |
| 169 | BREWER | SHARON | E |
| 170 | BREWER | STEVEN | T |
| 171 | BROOKS | PATRICIA | D |
| 172 | BROSKY | MARY | H |
| 173 | BROWN | VERA | |
| 174 | BRUNO | EVELYN | T |
| 175 | BRYK | THOMAS | M |
| 176 | BUCKLEY | EUGENE | C |
| 177 | BUCKLEY | JEANNE | M |
| 178 | BUHRMANN | DONALD | C |
| 179 | BUHRMANN | JUNE | |
| 180 | BUJULIAN BROTHERS INC | | |
| 181 | BUMANGLAG | WASHINGTON | M |
| 182 | BUNCH | WALTER | |
| 183 | BURDICK | DONALD | O |
| 184 | BURGESS | KAREN | |
| 185 | BURGESS | RANDY | |
| 186 | BURNS | RAYMOND | J |
| 187 | BURRELL | DORETHA | |
| 188 | BURTON | ALICE | |
| 189 | BUYTKUS FAMILY TRUST | | |
| 190 | BYRNE | DANIEL | R |
| 191 | BYRNE | DAVID | E |
| 192 | BYRNE | LEONA | |
| 193 | CABAHUG | ARLENE | A |
| 194 | CABAHUG | JAIME | M |
| 195 | CAL GOLF INC | | |
| 196 | CALANDRI SON RISE FARMS L P | | |
| 197 | CALDWELL | BELVA | A |
| 198 | CALIFORNIA WATER SERVICE CO | | |
| 199 | CALKINS | CHRISTINA | J |
| 200 | CALKINS | JAMES | F |
| 201 | CALMAT LAND CO | | |
| 202 | CALMESON | MARVIN | |
| 203 | CAMACHO | HERMINIA | T |
| 204 | CAMACHO | JULIAN | G |
| 205 | CAMARENA | RICARDO | C |
| 206 | CAMERON | BONNIE | M |
| 207 | CAMERON | JAMES | A |

| | | | |
|---|---|---|---|
| 208 | CAMERON | WILLIAM | H |
| 209 | CAMPBELL | ERIKA | |
| 210 | CANTE | RAFAEL | |
| 211 | CAPEL | LYNDA | B |
| 212 | CAREY | BARBARA | J |
| 213 | CAREY | DONALD | W |
| 214 | CARINGI | ERNEST | J |
| 215 | CARLISLE | VIOLET | E |
| 216 | CARNEY | TIMOTHY | G |
| 217 | CARRANZA | ROSENDO | |
| 218 | CARRASCO | TORIBIO | G |
| 219 | CARRLE | META | |
| 220 | CARROLL | IRENE | F |
| 221 | CARROLL | JAMES | K |
| 222 | CARRUTHERS | BERA | E |
| 223 | CARTER | AUDREY | M |
| 224 | CARTER | EUGENIA | |
| 225 | CARTER | LESLIE | A |
| 226 | CARTER | RONALD | H |
| 227 | CARTER | TERRY | |
| 228 | CASTELAN | GARY | E |
| 229 | CASTELAN | SHARON | L |
| 230 | CASTELLANOS | CANDACE | M |
| 231 | CASTELLANOS | EDDY | M |
| 232 | CASTILLO | JOSE | A |
| 233 | CASTILLO | REMEDIOS | C |
| 234 | CATANESE | ANA | |
| 235 | CATANESE | CHARLES | A |
| 236 | CAYETANO | AURELIA | |
| 237 | CAYETANO | EDGARDO | |
| 238 | CECIL | JULIA | I |
| 239 | CECIL | KEN | O |
| 240 | CENICEROS | GILBERT | B |
| 241 | CERNICKY | EDWARD | |
| 242 | CERNICKY | FLORENCE | |
| 243 | CHACHUAT | MARC | |
| 244 | CHAHAL | SUKHDEV | S |
| 245 | CHAN | BEE | HONG |
| 246 | CHAN | HAWK | NIN |
| 247 | CHAN | MON | KYI |
| 248 | CHAN | SIU | HANG |
| 249 | CHANDLER | BEVERLY | |
| 250 | CHANDLER | BURTON | |
| 251 | CHANEY | BONITA | |
| 252 | CHANEY | ROBERT | G |
| 253 | CHANG | JENSEN | J S |
| 254 | CHAO | PY | |
| 255 | CHARLES TAPIA FAMILY TRUST | | |
| 256 | CHATTERTON | SALLIE | LYNNE |
| 257 | CHEIKY | CHARITY | S |
| 258 | CHEIKY | MICHAEL | C |
| 259 | CHEUNG | CHRISTOPHER | B |

| | | | |
|---|---|---|---|
| 260 | CHI YU | HU | |
| 261 | CHIANG | CHOU | |
| 262 | CHITIEA | ANDREW | J |
| 263 | CHITIEA | JOAN | K |
| 264 | CHITIEA | JOEL | |
| 265 | CHITIEA | VIVIAN | A |
| 266 | CHITIEA | VIVIAN | |
| 267 | CHIU | TIM | TUNG |
| 268 | CHLAVIN | MYRON | |
| 269 | CHLAVIN | MYRON | B |
| 270 | CHLAVIN | MYRON | Z |
| 271 | CHOE | MI | RAN |
| 272 | CHOE | PYONG | S |
| 273 | CHOI | KENNETH | Y |
| 274 | CHONG | EDWIN | Y |
| 275 | CHOSTNER | LOUIS | E |
| 276 | CHOY | BONIFACE | T |
| 277 | CHRISTIANSEN | CHARLES | W |
| 278 | CHRISTIANSEN | MAXINE | J |
| 279 | CHRISTIE | JOHN | S |
| 280 | CHRISTOPHER | ARDATHE | E |
| 281 | CHU | DAPHNE | M |
| 282 | CHUNG | FRED | H |
| 283 | CHUNG | GABRIELLE | F |
| 284 | CINFIO | JOHN | |
| 285 | CIPOLLONE | JAMES | |
| 286 | CLARK | ELAINE | M |
| 287 | CLARK | RICHARD | L |
| 288 | CLARK | RICHARD | B |
| 289 | CLAWSON | RUSSELL | M |
| 290 | CLUTTER | GAIL | M |
| 291 | CLUTTER | RALPH | W |
| 292 | CO | LAP | DU |
| 293 | COGER | GEORGE | F |
| 294 | COLBATH | EDWARD | H |
| 295 | COLE | MARC | L |
| 296 | COLEMAN | DONALD | W |
| 297 | COLLICUTT | WILLIAM | F |
| 298 | COLLINS | BEATRICE | |
| 299 | COLOMBO | CHRISTINA | |
| 300 | COLTON | CHARLES | |
| 301 | CONNELLY | LARRY | J |
| 302 | CONNELLY | LEO | P |
| 303 | CONTE | SIRPUHE | |
| 304 | CONTRERAS | MARTIN | |
| 305 | COOK | ALAN | |
| 306 | COOLEY | REGINA | FRANCOISE |
| 307 | COPE | DENISE | M |
| 308 | COPE | THOMAS | J |
| 309 | CORDER | RUBY | J |
| 310 | CORDOVA | VIRGINIA | C |
| 311 | CORDOVA | WILLIAM | |

| | | | |
|---|---|---|---|
| 312 | CORRALES | ALFREDO | |
| 313 | COUNTY COUNTY SANITATION NO 14 | | |
| 314 | COUNTY SANITATION DISTRICT NO 20 | | |
| 315 | COX | CALVIN | J |
| 316 | COYLE | ERIC | M |
| 317 | CPH ROSAMOND LP | | |
| 318 | CRAIN | ELLIE | |
| 319 | CRAIN | JERRY | |
| 320 | CROCKETT | SUSAN | ELISE SIMC |
| 321 | CRONK | RONALD | E |
| 322 | CROSBY | ALICE | B |
| 323 | CRUZ | CORA | D |
| 324 | CRUZ | FELINA | E |
| 325 | CRUZ | NICASIO | |
| 326 | CRUZ | ROGER | L |
| 327 | CRYSTAL ORGANIC FARMS LLC | | |
| 328 | CUA | KRISTEEN | |
| 329 | CULHA | MIKE | M |
| 330 | CULLEN | PETER | |
| 331 | CURRY | DANNY | G |
| 332 | D C FAMILY TRUST | | |
| 333 | D R HORTON LOS ANGELES HOLDING | | |
| 334 | D SOUZA | FLORIN | |
| 335 | DACLES | ANITA | S |
| 336 | DACLES | SIMPLICIO | M |
| 337 | DALLEY | HELGA | I |
| 338 | DALLEY | MANFRED | H |
| 339 | DAMAN | LEONA | L |
| 340 | DAMRON | AMY | |
| 341 | DAMRON | JEANETTE | L |
| 342 | DANG | TAN | JAMES |
| 343 | DAOOD | MOHAMMAD | |
| 344 | DAOOD | SALEEM | A |
| 345 | DAOUD | ADIB | G |
| 346 | DAUGHERTY | DONNA | L |
| 347 | DAVALOS | ANITA | L |
| 348 | DAVALOS | DOMINADOR | M |
| 349 | DAVID | ALFRED | L |
| 350 | DAVIES | LITA | |
| 351 | DAVIS | DOUGLAS | G |
| 352 | DAVIS | JAMES | |
| 353 | DAVIS SIBS INC | | |
| 354 | DE LANO | ELIZABETH | |
| 355 | DE PIETRO LIMITED | | |
| 356 | DEAN REV LIV TR | | |
| 357 | DEBOTOUN | SEFEY | |
| 358 | DEDIOS | ANGELITO | G |
| 359 | DEL SUR RANCH LLC | | |
| 360 | DELUCA | BRUNO | M |
| 361 | DENG | LONG | |
| 362 | DENGER | SYBIL | M |
| 363 | DERRICK | OLIN | |

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|---|---|---|---|
| 364 | DESCHENE | DENEEN | M |
| 365 | DESERT LAKE L P | | |
| 366 | DIAZ | JUAN | A |
| 367 | DICKS | GARY | L |
| 368 | DIGIULIO | NICK | |
| 369 | DIOLI | RICHARD | A |
| 370 | DISCOUNTLAND INC | | |
| 371 | DIXON | LONZO | W |
| 372 | DIXON | MAE | L |
| 373 | DIZON | ADELAIDA | R |
| 374 | DIZON | HONORATO | C |
| 375 | DONIS | ESTEBAN | C |
| 376 | DONIS | MAURO | |
| 377 | DONIS | ROSALINA | G |
| 378 | DONIS | VIRGINIA | |
| 379 | DORA | LAND | |
| 380 | DORA LAND | | |
| 381 | DOUGHERTY | TERESA | |
| 382 | DOUGLAS | MICHAEL | R |
| 383 | DOUGLASS | KATHERINE | G |
| 384 | DOUK | BOROM | |
| 385 | DOUK | S&B | |
| 386 | DOUK | SOKHOM | |
| 387 | DOWNING | JAMES | W |
| 388 | DOWNING | JAMES | W |
| 389 | DOWNS | GARY | W |
| 390 | DREVER | ROMNIA | H |
| 391 | DRUMMOND | JOHN | T |
| 392 | DRUMMOND | MARILYN | M |
| 393 | DUMBRIQUE | ELISEO | C |
| 394 | DUNLOP | CYNTHIA | R |
| 395 | DUNN | JAMES | D |
| 396 | DUNNING | RAYMOND | E |
| 397 | DUONG | LOC | T |
| 398 | DURST | CAROL | A |
| 399 | DYKSTRA | HAROLD | |
| 400 | DYKSTRA | TERESA | |
| 401 | DYKSTRA | WILBUR | |
| 402 | DYKSTRA FAMILY TRUST | | |
| 403 | E C WHEELER LLC | | |
| 404 | E I C GROUP ET AL | | |
| 405 | EARL | DOROTHY | A |
| 406 | EARL | JACK | B |
| 407 | EARWOOD | DAVID | BRIAN |
| 408 | EAST KERN PROP LLC | | |
| 409 | EAST WEST LAND INVS INC | | |
| 410 | EASTER | BENJAMIN | |
| 411 | EASTLEY | GEORGE | M |
| 412 | EASTLEY | PHILIP | G |
| 413 | EBERT | JOANNE | F |
| 414 | ECKBERG | DAVID | L |
| 415 | ECKBERG | PAULA | K |

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|---|---|---|---|
| 416 | ECKLES | DALE | H |
| 417 | ECONOMOU | JEAN | F |
| 418 | EDMONDS | JOHN | H |
| 419 | EDWARDS | AVIS | M |
| 420 | EDWARDS | LINDA | |
| 421 | EDWARDS | SAMMY | L |
| 422 | EKSTROM | MARY | E |
| 423 | ELNESS | THEODORE | O |
| 424 | ELUMBA | ROSA | V |
| 425 | EMMS | ZENAIDA | C |
| 426 | EMPERT | ROSARIO | O |
| 427 | ENSMINGER | LORIN | |
| 428 | ENXCO DEV | | |
| 429 | ENXCO DEV CORP | | |
| 430 | ENXCO DEVELOPMENT CORPORATION | | |
| 431 | ERAZIM | CATHERINE | A |
| 432 | ESCOBAR | JOHN | M |
| 433 | ESPARZA | ROBERTO | C |
| 434 | ESPARZA | ROSE | |
| 435 | ESPIRITU | WILLIAM | I |
| 436 | ESQUIVEL | BASILIO | |
| 437 | EST OF ZELDA C SCHLISKE DECD | | |
| 438 | ESTRADA | EDELMIRA | |
| 439 | ESTRADA | HERVI | |
| 440 | EVANS | NANCY | H |
| 441 | EYHERABIDE | JUANITA | |
| 442 | EYHERABIDE | RAYMOND | |
| 443 | EYHERABIDE SHEEP CO | | |
| 444 | FABER | GEORGINA | LISA |
| 445 | FABRIZIO | CARL | |
| 446 | FAIRVIEW DEVELOPMENT LLC | | |
| 447 | FALK | DALE | |
| 448 | FANKHAUSER | ERNEST | |
| 449 | FANKHAUSER | HERTA | |
| 450 | FARIA | RICHARD | M |
| 451 | FARM ESTATES OF THE WORLD | | |
| 452 | FELTS | DENESE | L |
| 453 | FELTS | DOUGLAS | D |
| 454 | FENNELL | OTILIA | E |
| 455 | FIKE | RUTH | E |
| 456 | FINKEL | CLAUDIA | |
| 457 | FINKEL | GARY | |
| 458 | FIORITO | MARY | |
| 459 | FISCHER GRANDCHILDRENS TRUST | | |
| 460 | FLORES | GAYLE | |
| 461 | FLORES | MARIA | |
| 462 | FLOYD | HERBERT | F |
| 463 | FOGLEMAN | LARRY | |
| 464 | FOGLER | IRENE | P |
| 465 | FOGLER | RONALD | D |
| 466 | FONTILLAS | ALEJANDRO | |
| 467 | FORD | JOHN | R |

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|---|---|---|---|
| 468 | FOWLER | ANTONIA | B |
| 469 | FRANE | KEVIN | J |
| 470 | FRANE | LAUREL | A |
| 471 | FREDRICK | STEPHENIE | J |
| 472 | FREEMAN | JEFF | |
| 473 | FRIEDMAN | ESTHER | E |
| 474 | FRIEDRICHSEN | LEWIS | |
| 475 | FU | JOANNE | Y |
| 476 | FUJISAWA | YOSHI | |
| 477 | FUKUMOTO | MICHI | |
| 478 | FULLER | RUSSELL | E |
| 479 | GABUYA | AURORA | P |
| 480 | GABUYA | RODRIGO | L |
| 481 | GALIETI | JEFF | A |
| 482 | GALVEZ | JOSE | L |
| 483 | GAMBONE | BETTY | L |
| 484 | GARCIA | MARTHA | I |
| 485 | GARCIA | RODOLFO | |
| 486 | GARDE | EDUARDO | |
| 487 | GARDE | RUSSELLEND | |
| 488 | GARDE FMLY REV TR | | |
| 489 | GARY J RAFFERTY TRUST | | |
| 490 | GATEWAY TRIANGLE DEVELOPMENT II | | |
| 491 | GATEWAY TRIANGLE PROPERTIES | | |
| 492 | GEE | HUNG | GIT |
| 493 | GENZ DEV INC | | |
| 494 | GENZ DEVELOPMENT INC | | |
| 495 | GHIKA BUDESTI | STEFAN | |
| 496 | GIANG | PAUL | |
| 497 | GILBRALTAR HOMES LLC | | |
| 498 | GILL FAMILY TRUST 1999 | | |
| 499 | GILLINGHAM | GEORGE | H |
| 500 | GISELE SCHROEDER LIV TR | | |
| 501 | GLAUSER | DRENA | M |
| 502 | GLENN | GARY | A |
| 503 | GLESSNER | PAUL | T |
| 504 | GODSHALL | HARRY | C |
| 505 | GOLD SKY PROPERTY LLC | | |
| 506 | GOLDEN SANDS TRAILER PARK | | |
| 507 | GONZALES | BENITO | S |
| 508 | GONZALES | ERMINIO | |
| 509 | GONZALES | QUACH | E |
| 510 | GONZALEZ | ARMANDO | C |
| 511 | GONZALEZ | ARMANDO | L |
| 512 | GONZALEZ | CARLOS | J |
| 513 | GONZALEZ | FRANCES | R |
| 514 | GONZALEZ | GLORIA | |
| 515 | GONZALEZ | RAMON | |
| 516 | GONZALEZ | ROQUE | |
| 517 | GONZALEZ | TINA | J |
| 518 | GORRINDO | ROBERT | |
| 519 | GOSE | VICENTE | |

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|---|---|---|---|
| 520 | GOYA | CHRISTINA | A |
| 521 | GRAHAM | JOHN | C |
| 522 | GRANT | WILLIAM | M |
| 523 | GRAY | WESLEY | H |
| 524 | GREEN | BARBARA | MARIE |
| 525 | GREEN | HILDA | |
| 526 | GREENMAN | DONNA | J |
| 527 | GREMBER | PIERRE | |
| 528 | GRIFFIN | JOHN | R |
| 529 | GRIFFIN | LAURA | |
| 530 | GRIFFIN | LAURA | |
| 531 | GRIFFIN | LEONARD | W |
| 532 | GROFF | GERALD | L |
| 533 | GROFF | MARIAN | J |
| 534 | GROOM | LILLIAN | C |
| 535 | GROVEN | DENNIS | |
| 536 | GROVEN | MARGE | |
| 537 | GUERRANT FMLY TR | | |
| 538 | GUIANG | LUCENA | F |
| 539 | GUILLEN | CRISTOVAL | |
| 540 | GUINTO | CLARITA | |
| 541 | GUTIERREZ | ALVARO | |
| 542 | GUTIERREZ | SANTOS | A |
| 543 | GUZMAN | JOSE | |
| 544 | GUZMAN | JOSE | |
| 545 | GUZMAN | NORMA | |
| 546 | GUZMAN | OVIDIO | |
| 547 | H & N DEVELOPMENT CO INC | | |
| 548 | HA | JIN | S |
| 549 | HA | YOUNG | K |
| 550 | HADDOX | WILLIS | |
| 551 | HAHN | SUSAN | J |
| 552 | HAMIDI | HOMA | |
| 553 | HAMSON | CARRIE | M |
| 554 | HAMSON | DAVID | E |
| 555 | HANANO | DEAN | K |
| 556 | HANLON | JAMES | W F |
| 557 | HANLON | JAMES | F |
| 558 | HANSEN | HARALD | |
| 559 | HANSON | CHRISTINE | |
| 560 | HANTMAN | JOSEPH | |
| 561 | HANTMAN | JOYCE | |
| 562 | HARD | WILLIS | H |
| 563 | HARNIK | JOSEPH | H |
| 564 | HARPER | DAVID | C |
| 565 | HARRELL | MARY LOU | BYERLY |
| 566 | HARRIS | DIANE | M |
| 567 | HARRIS | JAMES | P |
| 568 | HARRIS | KAREN | JANE |
| 569 | HARRIS | STEVEN | |
| 570 | HART | KAREN | S |
| 571 | HARTER | KAY | B |

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|---|---|---|---|
| 572 | HARTER | KAY | |
| 573 | HARTER | SCOTT | |
| 574 | HARTER | SCOTT | S |
| 575 | HARVELL FAMILY TR | | |
| 576 | HASKINS | SAM | |
| 577 | HASSID | YAEL | |
| 578 | HASSID | YORAM | |
| 579 | HATHAWAY | GARY | |
| 580 | HATHAWAY | PATRICIA | |
| 581 | HAYDON | DONALD | C |
| 582 | HAZAMA | FUSAKO | |
| 583 | HAZAMA | HIDEO | |
| 584 | HEGGEN | ALICE | L |
| 585 | HELTON | BOB | D |
| 586 | HEMMING | JAMES | |
| 587 | HENNINGER | CORINE | L |
| 588 | HERNANDEZ | ANTONIO | |
| 589 | HERR | CAROL | E |
| 590 | HESS | CHRISTIAN | |
| 591 | HETZNER | RONALD | |
| 592 | HEYNEN | GERALDINE | A |
| 593 | HGJ LLC | | |
| 594 | HIGH DESERT INVESTMENTS LLC | | |
| 595 | HILL | JACK | M |
| 596 | HILL | MICHELE | |
| 597 | HILLERMAN | ERIC | V |
| 598 | HINCK | MARILYN | E |
| 599 | HINES | NORMAN | M |
| 600 | HINES | RICKI | |
| 601 | HO | GIANG | |
| 602 | HO | THONG | H |
| 603 | HOA | NGAN | |
| 604 | HOBAYAN | ALBERT | H |
| 605 | HOBAYAN | VIOLETA | P |
| 606 | HODGES | PAUL | |
| 607 | HODSDON | DEBRA | J |
| 608 | HODSDON | STEVE | W |
| 609 | HOEHN | ELISABETH | |
| 610 | HOEHN | MICHAEL | |
| 611 | HOFFMAN | WILBERT E DECD EST OF | & |
| 612 | HOGAN | KIM | M |
| 613 | HOGAN | PATRICK | J |
| 614 | HOLGUIN | SOLEDAD | |
| 615 | HOLLAND | CLARISSIA | E |
| 616 | HOMAN | LINDA | |
| 617 | HOMAN | MATHEW | L |
| 618 | HONG | CHE | C |
| 619 | HONG | KHAI | |
| 620 | HONG | TONY | |
| 621 | HOOPER | MARTHA | W |
| 622 | HOOVER | GARY | |
| 623 | HOOVER | MARILYN | L |

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|---|---|---|---|
| 624 | HOPPER | J | A |
| 625 | HOSKINS | WILLIAM | L |
| 626 | HOST | CHERYL | A |
| 627 | HOST | THOMAS | A |
| 628 | HOURANI | JANETTE | |
| 629 | HOWE | LESLIE | B |
| 630 | HSI | SUMEI | P |
| 631 | HSIAONI CHANG | | |
| 632 | HSU | JA | BIN |
| 633 | HSU | JAMES | T |
| 634 | HUANG | CHI | S |
| 635 | HUANG | CHI | SHIOU |
| 636 | HUANG | KANGLE | |
| 637 | HUANG | SUCHU | T |
| 638 | HUBBARD | MARIE | E |
| 639 | HUERTA | CRESENCIO | |
| 640 | HUGHES | ROMEO | |
| 641 | HUI SUK KIM TR | | |
| 642 | HUNT | ROBERT | W. |
| 643 | HUNTER | JAMES | A |
| 644 | HUTH | CLINTON | C |
| 645 | HUTH-TANNER | S | |
| 646 | HUTSON | HARLEY | M |
| 647 | HWANG | AMY | C |
| 648 | HYATT | CLARENCE | L |
| 649 | HYPERICUM INTEREST LLC | | |
| 650 | HYPERICUM INTERESTS LLC | | |
| 651 | HYUN CHUL LEE | | |
| 652 | IGE | KIYOSHI | |
| 653 | IGLESIA DE DIOS PENTECOSTAL MI | | |
| 654 | IGNACIO | ISIDRO | |
| 655 | ILES | ELLEN | M |
| 656 | INGERSOLL | VERONICA | |
| 657 | INGRAM | MARTIN | |
| 658 | INVESTCO AV8 LLC | | |
| 659 | IOELE | PASQUALE | S |
| 660 | IRISH | JOY | C |
| 661 | IRISH | ROBERT | L |
| 662 | ISSAKHANIA | J | |
| 663 | ISSAKHANIAN | MARTIN | |
| 664 | IWAMOTO | FUKUYO | |
| 665 | J P ELIOPULOS ENTERPRISES INC | | |
| 666 | JABLONSKI | HELENA | |
| 667 | JACKS | ALFRED | H |
| 668 | JACKSON | DIETRA | F |
| 669 | JACOBSEN | ARNOLD | |
| 670 | JAGATRI L AND XANTHA DHAWAN | | |
| 671 | JAMES | RICHARD | D |
| 672 | JAUREGUI | DAVID | |
| 673 | JAUREGUI | ISAURA | |
| 674 | JAVID INVESTMENTS LLC | | |
| 675 | JEFFREY | ENID | C |

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|---|---|---|---|
| 676 | JENG | CHERNPORN | |
| 677 | JENG | THIENCHAI | |
| 678 | JENNINGS | BOBBY | G |
| 679 | JENNINGS | PATRICIA | L |
| 680 | JENSEN FAMILY TR | | |
| 681 | JEONG | WALLACE | D |
| 682 | JIBILIAN | ARMEN | |
| 683 | JIMENEZ | ENRIQUE | U |
| 684 | JOHNSON | HENRY | |
| 685 | JOHNSON | MARGARET | C |
| 686 | JONES | BETTY | J |
| 687 | JONES | CHRISTINE | D |
| 688 | JONES | DAVID | L |
| 689 | JONES | ESTHER | D |
| 690 | JONES | HAROLD | C |
| 691 | JONES | ROBERT | A |
| 692 | JORDAN | MARGLEEN | J |
| 693 | JOSHUA RANCH DEVELOPMENT INC | | |
| 694 | JUHL | MORTON | S |
| 695 | K A INVESTMENT CO L L C | | |
| 696 | KAGEHIRO | ISAKO | |
| 697 | KAGEHIRO | KENICHI | |
| 698 | KAM | ANNETTE | F |
| 699 | KAM | ANNETTE | FUNG HAU |
| 700 | KANAMORI | MITSUE | |
| 701 | KANEASTER | CHARLOTTE | M |
| 702 | KANG | YUN | H |
| 703 | KARIYA | KATSUKO | |
| 704 | KARIYA | KATSUMI | |
| 705 | KARLAKIS | THEODORE | |
| 706 | KARTHAS | NICHOLAS | |
| 707 | KASPER | COLLEEN | A |
| 708 | KATSION | GORDON | D |
| 709 | KAUFLER TRUST | | |
| 710 | KAWAMOTO | WAYNE | T |
| 711 | KAWAMURA | YASUKO | IRA |
| 712 | KEAST FMLY TR | | |
| 713 | KEKLIKIAN | ARPINEH | |
| 714 | KEKLIKIAN | MISSAK | |
| 715 | KENDRICK | MARIE | C |
| 716 | KERNROSS ESTATES | | |
| 717 | KETTENRING | JOEL | S |
| 718 | KETTENRING | PAULINE | J |
| 719 | KETTLES | HARRIET | |
| 720 | KEY | SANDRA | |
| 721 | KHATER | FADI | N |
| 722 | KILA | LORNA | M |
| 723 | KIM | MI | JUNG |
| 724 | KIM | SOO | H |
| 725 | KINAT | CAROL | A |
| 726 | KING | CHUN | |
| 727 | KING | CHUN | C |

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|---|---|---|---|
| 728 | KING | WILLIAM | |
| 729 | KING | WILLIAM | C |
| 730 | KIRKLAND | FREDA | D |
| 731 | KLECHEFSKI | C | DIANE |
| 732 | KLECHEFSKI | GEORGE | E |
| 733 | KLEKAR | HOWARD | R |
| 734 | KLODJA | FRANK | |
| 735 | KLUMP | HAROLD | P |
| 736 | KNAPP | IRENE | KENT |
| 737 | KOBAYASHI FAMILY TRUST | | |
| 738 | KOLLAR | JOSEPHINE | P |
| 739 | KOLSTAD | ROSE | M |
| 740 | KOO | ERLINDA | L |
| 741 | KOOKEN | WILLIAM | R |
| 742 | KOOTENAI PROPERTIES INC | | |
| 743 | KORDA | SARAH | |
| 744 | KOSTSZEWA | JOHN | L |
| 745 | KOSTSZEWA | MARLENE | |
| 746 | KOUSEN | KAREL | |
| 747 | KOUSEN | PAMELA | |
| 748 | KRAMER | ALICE | C |
| 749 | KRAMER | ROBERT | S |
| 750 | KU | DAVID | H |
| 751 | KU | SOU | CHIN |
| 752 | KUBIAK | MICHAEL | J |
| 753 | KUCHTA | TERRY | W |
| 754 | KUMAGAI | SEISHI | |
| 755 | KUNG | WEI | I |
| 756 | KYLE | GAILEN | |
| 757 | KYLE | GAILEN | W |
| 758 | KYLE | JAMES | W |
| 759 | KYLE | JULIA | |
| 760 | KYLE | WANDA | E |
| 761 | L A CO SANITATION DIST NO 14 | | |
| 762 | L A CO SANITATION DIST NO 20 | | |
| 763 | LA PORTE | JEAN | D |
| 764 | LAGUERTA | LILIA | R |
| 765 | LAI | TSUI | W |
| 766 | LAMBERT | DELORIS | G |
| 767 | LAMBERT | NANCY | L |
| 768 | LANCASTER AND 120 111 LLC | | |
| 769 | LANCASTER BLVD | | |
| 770 | LANCASTER BLVD AND 42ND ST WEST | | |
| 771 | LANCASTER NEW HORIZONS | | |
| 772 | LAND BUSINESS CORP | | |
| 773 | LANDALE MUTUAL WATER CO | | |
| 774 | LANDAU | PEARL | |
| 775 | LANDAU | WILLIAM | |
| 776 | LANDAVERDE | JESUS | |
| 777 | LANDAVERDE | NANCY | |
| 778 | LANDEROS | ROBERTO | |
| 779 | LANE | FRANK | A |

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|---|---|---|---|
| 780 | LANG | PAULETTE | M |
| 781 | LANIER | WILLIAM | B |
| 782 | LANKTREE | ANN | R |
| 783 | LARGE | BONNIE | P |
| 784 | LARGE | ROBERT | W |
| 785 | LARRANAGA | SAMSON | |
| 786 | LAW | ALTON | B |
| 787 | LAWRENCE | MICHAEL | F |
| 788 | LAYMANCE | LOUIE | A |
| 789 | LAZO | CONRADO | V |
| 790 | LAZO | ELIZABETH | N |
| 791 | LE | DUONG | T |
| 792 | LE | LOI | |
| 793 | LE | SUONG | N |
| 794 | LE | YEN | S |
| 795 | LEARY | CORNELIUS | W |
| 796 | LEBRECHT | MARGARET | M |
| 797 | LEE | CHI | HSIUNG |
| 798 | LEE | DELANO | |
| 799 | LEE | JIM | |
| 800 | LEE | MAI | |
| 801 | LEE | TING | PIE |
| 802 | LEGASPI | AURELIA | V |
| 803 | LEGASPI | FELIMON | E |
| 804 | LEISTNER | LEO | |
| 805 | LENO | LEIGHTON | E |
| 806 | LENO | NANCY | A |
| 807 | LEONA VALLEY HUNTING CLUB | | |
| 808 | LESIAK | MARIANE | |
| 809 | LESIAK | MAX | M |
| 810 | LEUNG | RAMIE | |
| 811 | LEWIS | PHILLIP | W |
| 812 | LIBED | RUDOLFO | P |
| 813 | LIEN FAMILY SURVIVORS TRUST | | |
| 814 | LIGGETT | MICHAEL | |
| 815 | LIM | CAMILA | L |
| 816 | LIM | SENG | MOV |
| 817 | LIMOS | LEONORE | C |
| 818 | LIN | MICHAEL | |
| 819 | LIN | TACHUNG | |
| 820 | LINDE | DONALD | L |
| 821 | LING | KWONG | S |
| 822 | LING LING FANG | | |
| 823 | LIONG | LILLA | |
| 824 | LITTLE ROCK SAND AND GRAVEL INC | | |
| 825 | LITTLEROCK CREEK IRRIGATION DIST | | |
| 826 | LITTLEROCK SAND AND GRAVEL INC | | |
| 827 | LIU | CHIH | CHUNG |
| 828 | LIU | SUH | JEN |
| 829 | LIZOTTE | SHIRLEY | |
| 830 | LLANDA | EDITH | A |
| 831 | LLOYD F AVERY TR | | |

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|---|---|---|---|
| 832 | LO | MAN | C |
| 833 | LO | SHIUNG | RU |
| 834 | LOCSIN | CARMELITA | N |
| 835 | LOCSIN | HILARIO | S |
| 836 | LOGUE | MARY | R |
| 837 | LOI | THANH | LE |
| 838 | LOLA R JOHNSON TRUST | | |
| 839 | LOMBARDO FMLY REV LIV TR | | |
| 840 | LONG DENG | | |
| 841 | LOOKBAUGH | STEPHEN | C |
| 842 | LOPAC | THOMAS | A |
| 843 | LOPEZ | MARK | L |
| 844 | LOPEZ | OLIVIA | E |
| 845 | LOPEZ | VICTOR | M |
| 846 | LOS ANGELES COUNTY SANITATION | | |
| 847 | LOS BANOS | BERNARD | |
| 848 | LOVEN | ROBERTA | |
| 849 | LOVING | ROBERT | A |
| 850 | LOWERY | CHARLES | W |
| 851 | LOWERY | NINA | M |
| 852 | LOYOLA MARYMOUNT UNIVERSITY | | |
| 853 | LOZANO | JOSE | G |
| 854 | LOZANO | MARIA | T |
| 855 | LU | CLARK | DANNY C |
| 856 | LU | CLARK | C |
| 857 | LUBBERS | EVA | F |
| 858 | LUCERO | ROBERT | |
| 859 | LUCKY 360 INVESTMENTS LLC | | |
| 860 | LUDOVICO | MARIA | C |
| 861 | LY | MIKE | |
| 862 | LYMAN | JANET | L |
| 863 | LYMAN | JANET | L |
| 864 | LYNCH | PATRICIA | L |
| 865 | LYON | ALICE | J |
| 866 | LYONS | CHRISTI | L |
| 867 | LYONS | JOHN | D |
| 868 | M14 DEVELOPMENT LLC | | |
| 869 | MACADAEG | BERNADETTE | |
| 870 | MACE | JEANENNE | K |
| 871 | MACE | MARK | E |
| 872 | MACIAS | ANTONIO | |
| 873 | MACIAS | BENJAMIN | |
| 874 | MACIAS | MARTINA | |
| 875 | MADAN | S | K |
| 876 | MADAN | SHOBHANA | |
| 877 | MADRIGAL | ANTONIO | |
| 878 | MAGALONA | CECILIA | M |
| 879 | MAGEO | PALE | I |
| 880 | MAGLAYA | PATROCINIO | M |
| 881 | MAGLIANO | ROBERT | |
| 882 | MAGLIANO | ROSALIN | |
| 883 | MAGTAAS | ROLADO | G |

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|---|---|---|---|
| 884 | MAK | VANNA | |
| 885 | MALAY | ANGELA | L |
| 886 | MALIT | NARCISO | G |
| 887 | MANAY | LORIE | |
| 888 | MANDAC | LUZVIMINDA | B |
| 889 | MANERY | DAVID | |
| 890 | MANNINO | CAROL | A |
| 891 | MANUEL | CHARITO | M |
| 892 | MANUEL | EUFEMIA | |
| 893 | MANUEL | RICHMOND | B |
| 894 | MANUEL | RICHMOND | |
| 895 | MANZO | CHARLES | J |
| 896 | MARAVICH | RUDOLPH | |
| 897 | MARCELO | MENANDRO | |
| 898 | MARCELO | OFELIA | |
| 899 | MAREE J DE LANO TR | | |
| 900 | MARITORENA | JOSE | |
| 901 | MARITORENA LIVING TRUST | | |
| 902 | MAROTTA | HELEN | P |
| 903 | MARQUEZ | ALFREDO | |
| 904 | MARQUEZ | MANUELA | |
| 905 | MARQUEZ | MARIA | |
| 906 | MARQUEZ | MARTIN | |
| 907 | MARSH | MARY | L |
| 908 | MARSH | RACHEL | E |
| 909 | MARSHALL | BYRN | HOWARD |
| 910 | MARTIN | ALMA | |
| 911 | MARTIN | ARTHUR | C |
| 912 | MARTIN | BARBARA | D |
| 913 | MARTIN | THOMAS | |
| 914 | MARTINEZ | FRANCISCO | J |
| 915 | MARTINEZ | JESUS | A |
| 916 | MARTINEZ | MARIA | D |
| 917 | MARTINEZ | ROBERT | L |
| 918 | MARTINS | ELSIE | |
| 919 | MARTINS | LAWRENCE | |
| 920 | MARTINS | LAWRENCE | |
| 921 | MASON | DAVID | S |
| 922 | MASON | DAVID | |
| 923 | MASON | FRANCES | H |
| 924 | MASON | KERRI | |
| 925 | MASON | MILDRED | |
| 926 | MASTERS | DONALD | L |
| 927 | MATA | ROSARIO | G |
| 928 | MATE | TERESITA AND | |
| 929 | MATSUI | JEANNE | |
| 930 | MATSUSHIMA | SUMIKO | |
| 931 | MATTHEWS | FULTON | L |
| 932 | MAURICE | MATTHEW | |
| 933 | MAXILOM | SHIRLEY | A |
| 934 | MAXWELL | CATHERINE | |
| 935 | MAZARIEGOS | GUSTAUO | |

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|---|---|---|---|
| 936 | MAZARIEGOS | LINDA | |
| 937 | MC AVOY | AMY | M |
| 938 | MC AVOY | DOUGLAS | R |
| 939 | MC INTYRE | THOMAS | R |
| 940 | MC KAY | RAYMOND | E |
| 941 | MC LAREN | B | A |
| 942 | MC LAUGHLIN | BRIAN | M |
| 943 | MCALLISTER | RAE | K |
| 944 | MCANDREW | LORRAINE | R |
| 945 | MCCALMAN | JULIENNE | |
| 946 | MCCALMAN | WALTER | |
| 947 | MCCLAIN | LORETA | Y |
| 948 | MCCLINE | SUSAN | R |
| 949 | MCCOOL | FREDERICK | W |
| 950 | MCCOOL | RITA | |
| 951 | MCDOWELL | JERRIE | E |
| 952 | MCGAHAN | PATTY | J |
| 953 | MCNINCH | EDWIN | |
| 954 | MCNINCH | MARGARET | |
| 955 | MEDINA | JULIAN | |
| 956 | MEJIA | JUANA | L |
| 957 | MELLOW | LEONARD | |
| 958 | MENDOZA | ALFREDO | B |
| 959 | MENDOZA | CUAUHTEMOC | |
| 960 | MERRY | ROBERTA | |
| 961 | MESSIER | HERMINIA | |
| 962 | MESSIER | LEONARD | |
| 963 | METTLER VALLEY MUTUAL WATER CO | | |
| 964 | MEYER | DAVID | B |
| 965 | MEYER | HANS | PETER |
| 966 | MEYER | IPBI | K |
| 967 | MEYER | IPBI | KIM |
| 968 | MEYER | LISA | |
| 969 | MEYER CREST LTD | | |
| 970 | MEYER CREST LTR | | |
| 971 | MIHARA | HISAO | |
| 972 | MIKEL | MOLLY | |
| 973 | MIKEL | SAM | |
| 974 | MILLER | JAMIE | |
| 975 | MILLER | LINDA | M |
| 976 | MILLER | NANCY | |
| 977 | MILLER | NANCY | |
| 978 | MILLER | RAYMOND | C |
| 979 | MILLER | RICHARD | D |
| 980 | MILLER | STEVEN | S |
| 981 | MINA | MARIA | D |
| 982 | MINA | ROLDAN | C |
| 983 | MINER | RICHARD | H |
| 984 | MINH | LIEU | NGOC VO |
| 985 | MINH | VAN | DINH |
| 986 | MIRANDA | SALVADOR | |
| 987 | MIRKAZEMI | MORTEZA | S |

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|---|---|---|---|
| 988 | MIRKAZEMI | SUSAN | G |
| 989 | MISSION BELL RANCH DEVELOPMENT | | |
| 990 | MITSUSHIMA | JANICE | C |
| 991 | MO | CHIUNG | H |
| 992 | MOENE | BJORN | |
| 993 | MOJAVE & TROPICO LLC | | |
| 994 | MOLINA | CELINA | |
| 995 | MONARREZ | CANDICE | J |
| 996 | MONASEBIAN | FARSHAD | S |
| 997 | MONEDA | PATRICIO | A |
| 998 | MONFARED | SAEED | F |
| 999 | MONTEMAYOR | EUSEBIO | R |
| 1000 | MONTES | MARIA | I |
| 1001 | MOORE | JUDITH | ANNE |
| 1002 | MOORE | ROBERT | A |
| 1003 | MOORE | SHIRLEY | M |
| 1004 | MOORE | THOMAS | A |
| 1005 | MORALES | ELAINE | L |
| 1006 | MORENO | MICHAEL | P |
| 1007 | MORI | RITSUKO | |
| 1008 | MORRIS | JOHN | |
| 1009 | MOSES | MARY | L |
| 1010 | MOTAVVEF | FIROUZEH | B |
| 1011 | MOTAVVEF | MANSOOR | |
| 1012 | MOUGHALIAN | GIRARD | |
| 1013 | MOUGHALIAN | RENATE | |
| 1014 | MOWER | MARY | B |
| 1015 | MUDGETT | MARILYN | |
| 1016 | MULLINS | BRANDON | |
| 1017 | MULVENA | MAIA | L |
| 1018 | MUMFORD | DON | HAZEN |
| 1019 | MUNGIA | EMMA | G |
| 1020 | MUNGIA | EMMA | G |
| 1021 | MUNZ | BARRY | S |
| 1022 | MUNZ | DAN | W |
| 1023 | MUNZ | KATHLEEN | M |
| 1024 | MUNZ | REVA | R |
| 1025 | MURDOCK | BRONWYN | |
| 1026 | MURO | ESTELA | |
| 1027 | MURPHY | PATTY | A |
| 1028 | MURTAUGH SURVIVORS TRUST | | |
| 1029 | MYERS FAMILY TRUST ET AL | | |
| 1030 | MYUNG | DUK | Y |
| 1031 | MYUNG | HYUN | S |
| 1032 | NADWODNY | MARY | L |
| 1033 | NAIDITCH | GAY | E |
| 1034 | NAKAMICHI | SATOYE | |
| 1035 | NAKASHIMA | YOSHITO | |
| 1036 | NAKAWATASE | SHIZUKO | |
| 1037 | NAKAWATASE | YOSHITAKA | |
| 1038 | NANAMKIN | JIM | L |
| 1039 | NAPUTI | DAVID | A |

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|---|---|---|---|
| 1040 | NATIONAL CEMENT CO OF CALIF | | |
| 1041 | NATIONWIDE ASSET MANAGEMENT LP | | |
| 1042 | NAVAL | CHARYL | Y |
| 1043 | NAVARRO | ALEJANDRA | |
| 1044 | NAVARRO | ANDREA | |
| 1045 | NAVARRO | FRANCISCO | B |
| 1046 | NAVARRO | JOSE | |
| 1047 | NAVARRO | MARTA | |
| 1048 | NEBEKER | EUGENE | B |
| 1049 | NELLIE TAPIA FAMILY TRUST | | |
| 1050 | NELLIE TAPIA FMLY TR | | |
| 1051 | NEMAN | SIMIN | |
| 1052 | NEWMAN | DORWIN | |
| 1053 | NEWMAN | SHIRLEY | |
| 1054 | NEWSOM FAMILY TRUST | | |
| 1055 | NGO | BINH | |
| 1056 | NGUYEN | ANTHONY | L |
| 1057 | NGUYEN | DANNY | T |
| 1058 | NGUYEN | NGOC | A |
| 1059 | NGUYEN | NGUYET | M |
| 1060 | NGUYEN | SONNIE | H |
| 1061 | NGUYEN | THANH | M |
| 1062 | NIBBELINK FAMILY TR | | |
| 1063 | NICHOLS | JUANITA | R |
| 1064 | NICHOLSON | GERARD | H |
| 1065 | NICHOLSON | MARIE | A |
| 1066 | NISHIDA | ERIC | M |
| 1067 | NISHIDA | ERIC | M |
| 1068 | NISSING | NEIL | |
| 1069 | NIXON | LYDIA | A |
| 1070 | NOEL | DIXIE | LEE |
| 1071 | NONA M RAFFERTY TRUST | | |
| 1072 | NORTHROP GRUMMAN CORP | | |
| 1073 | NORTHROP GRUMMAN SYSTEMS CORP | | |
| 1074 | NOTERMAN | MARK | A |
| 1075 | NOTERMAN | YVETTE | M |
| 1076 | NOU | NANCY | M |
| 1077 | NOVELOSO | CIPRIANO | |
| 1078 | NOVELOSO | DOLORES | |
| 1079 | NOZAKI | HENRY | A |
| 1080 | NOZAKI | NAOMI | F |
| 1081 | NUSS | STEVEN | B |
| 1082 | NUTTER | MARY | A |
| 1083 | OBERG | MERLE | L |
| 1084 | OCONNOR | TIMOTHY | J |
| 1085 | OHTA | JESSIE | T |
| 1086 | OKAMOTO | KEIKO | |
| 1087 | OKAMOTO | MASAAKI | |
| 1088 | OKIHARA | HARUTO | |
| 1089 | OLIVAS | RICK | D |
| 1090 | OLSON FAMILY TR | | |
| 1091 | OLSSON | BETTY | A |

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|---|---|---|---|
| 1092 | OLSSON | JOHN | B |
| 1093 | ORARA | ADORACION | M |
| 1094 | ORARA | FRANCISCO | |
| 1095 | ORTEGA | PEDRO | O |
| 1096 | OSHIRO | DORIS | Y |
| 1097 | OSKOOI | FIROOZ | R |
| 1098 | OSSA | GUNTRAM | R |
| 1099 | OSSA | LIANE | D |
| 1100 | OWL PROPERTIES INC | | |
| 1101 | PADDEN | BRETT | R |
| 1102 | PADGETT | CHARLENE | E |
| 1103 | PADGETT | ROY | B |
| 1104 | PADILLA | MARTA | |
| 1105 | PADILLA | PAZ | R |
| 1106 | PADUA | CLAIRE | M |
| 1107 | PAGDILAO | LEONIDA | P |
| 1108 | PALACIO | JULIO | |
| 1109 | PALACIO | LUZ | |
| 1110 | PALMDALE 1000 ASSOCIATES LLC | | |
| 1111 | PALMDALE 5TH STREET WEST LLC | | |
| 1112 | PALMDALE FAMILY HOUSING | | |
| 1113 | PALMDALE HILLS PROPERTY | | |
| 1114 | PALMDALE HILLS PROPERTY LLC | | |
| 1115 | PALMDALE LODGING ASSOCIATES LLC | | |
| 1116 | PALMDALE MOBILE FRANK LLC | | |
| 1117 | PAQUIN | JOSEPH | R |
| 1118 | PAREDES | EUGENIO | |
| 1119 | PARK | CHOON | S |
| 1120 | PARK | INYOUNG | |
| 1121 | PARK | JEAN | C |
| 1122 | PARKER | HAROLD | B |
| 1123 | PARKER | JUEL | A |
| 1124 | PASTRANO | JOSE | D |
| 1125 | PATINO | SALLY | |
| 1126 | PAULING | ADRIAN | LEE |
| 1127 | PAYNE | CHARLES | A |
| 1128 | PAYNE | IMA | J |
| 1129 | PEARSON | DIANA | J |
| 1130 | PEARSON | DIANA | JO |
| 1131 | PEDENKO | LEO | |
| 1132 | PENA | VICENTA | A |
| 1133 | PEREIRA | MICHAEL | P |
| 1134 | PEREZ | ROSA | I |
| 1135 | PERRISEAU | KAREN | |
| 1136 | PERRISEAU | KAREN | L |
| 1137 | PERRISEAU | MARVIN | R |
| 1138 | PETERSEN PROPERTIES | | |
| 1139 | PH ROSAMOND LLC | | |
| 1140 | PHAM | THANG | DUC |
| 1141 | PHAN | MYLINH | |
| 1142 | PHILLIPS | ORRIN | |
| 1143 | PIANE | TOM | |

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|---|---|---|---|
| 1144 | PIERATT | PAUL | M |
| 1145 | PIKE | ROBERT | |
| 1146 | PIWENITZKY | FRED | W |
| 1147 | PIWENITZKY | SACHIKO | |
| 1148 | PIZANO | ARTHUR | |
| 1149 | PIZANO | HERLINDA | |
| 1150 | PLEDGE INVESTMENT LLC | | |
| 1151 | PLOYNGAM | TAVIL | |
| 1152 | POLLARD | PERLA | C |
| 1153 | POLLARD | ROBERT | A |
| 1154 | POMEROY | KIMBERLEY | |
| 1155 | POMEROY | KIMBERLY | A |
| 1156 | POMEROY | VANCE | |
| 1157 | POMEROY | VANCE | D |
| 1158 | POOLE FAMILY TR | | |
| 1159 | PORCARI | DORA | A |
| 1160 | POULSEN | NORMAN | L |
| 1161 | POWELL | CHARLES | P |
| 1162 | PRATANTHIP | WARAYA | |
| 1163 | PROCIDA | ROMANO | |
| 1164 | PRODAN | BRUNO | |
| 1165 | PRODAN | ROSA | |
| 1166 | PVK FAMILY LIMITED PTN | | |
| 1167 | QARMOUT | ELIAS | |
| 1168 | QUADIR | ABU | |
| 1169 | QUAN QUOC PHAM | | |
| 1170 | QUANTUMCUE INC | | |
| 1171 | QUESTIN | BELLA | S |
| 1172 | QUIGLEY | | |
| 1173 | QUIGLEY | RACHEL | |
| 1174 | QUINLAN | MARY | R |
| 1175 | QWEST ENGINEERING INC | | |
| 1176 | R AND M RANCH | | |
| 1177 | RABENA | THEODORE | R |
| 1178 | RAGUINE | ARMANDO | M |
| 1179 | RAHGAN REAL ESTATE DEV CO | | |
| 1180 | RALPHS | GAY | A |
| 1181 | RALPHS | RONALD | A |
| 1182 | RAMOS FAMILY TRUST | | |
| 1183 | RAMPE | FRED | |
| 1184 | RANADA | FELICITAS | T |
| 1185 | RAWJEE | MAHMUD | |
| 1186 | RAZAVI | FEREIDOUN | |
| 1187 | RAZER | CLARENCE | L |
| 1188 | RAZER | JEAN | L |
| 1189 | REACH | JOAN | E |
| 1190 | RECA | JOHN | B |
| 1191 | REED | ROBERT | L |
| 1192 | REFF | BARBARA | |
| 1193 | REFF | HERBERT | |
| 1194 | REGALADO | RAY | Y |
| 1195 | REICH | FRED | |

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| 1196 | REID | MARY | L |
| 1197 | REINOSO | EDGAR | |
| 1198 | RETZ | MAYME | E |
| 1199 | REYES | CONCEPCION | |
| 1200 | REYES | EFREN | |
| 1201 | REYES | ELIZABETH | |
| 1202 | REYES | ERNESTO | S |
| 1203 | REYES | VICENTE | |
| 1204 | REYNOLDS | CARLETON | |
| 1205 | REYNOLDS | OLIVIA | |
| 1206 | RHEE | SEI | C |
| 1207 | RHODA | SUSAN | M |
| 1208 | RHODEN | MICHELE | |
| 1209 | RICHARD A WHITE TRUST | | |
| 1210 | RICHARD M LANG FAMILY TRUST | | |
| 1211 | RICHARDS | MORRIS | D |
| 1212 | RICKETTS | RONALD | M |
| 1213 | RIDDLE | NANCY | J |
| 1214 | RIDER | ANITA | E |
| 1215 | RIGGINS | PATRICIA | J |
| 1216 | RIMANDO | FLORENCE | L |
| 1217 | RIMANDO | RUBEN | B |
| 1218 | RINALDI | MICHAEL | J |
| 1219 | RIOS | MARIA | T |
| 1220 | RIOS | NICOLAS | |
| 1221 | RIPPERDA | JOYCE | |
| 1222 | RIPPON | JAMES | |
| 1223 | RITTER | EDGAR | C |
| 1224 | RITTER | PAULA | E |
| 1225 | RIVERA | GEORGE | R |
| 1226 | RMG PROPERTY HOLDING FOUR LLC | | |
| 1227 | RMG PROPERTY HOLDING TWO LLC | | |
| 1228 | ROBBIE | DAVID | L |
| 1229 | ROBBIE | KINUE | REV |
| 1230 | ROBERSON | TRACY | A |
| 1231 | ROBERTSON | CHARLES | T |
| 1232 | RODARTE | ALBERT | |
| 1233 | RODRIGUEZ | CONCEPCION | |
| 1234 | RODRIGUEZ | GUADALUPE | |
| 1235 | RODRIGUEZ | IGNACIO | |
| 1236 | RODRIGUEZ | JOHN | M |
| 1237 | ROQUEMORE TR | | |
| 1238 | ROSAMOND LAND TRUST | | |
| 1239 | ROSEMOUNT EQUITIES LLC | | |
| 1240 | ROSENBERRY | RUSSELL | F |
| 1241 | ROSENDALE | CRYSTAL | L |
| 1242 | ROSENDALE | STEPHEN | |
| 1243 | ROSENTHAL | ROBERT | |
| 1244 | ROSS REBAR CO INC | | |
| 1245 | ROTTGERING | RICHARD | W |
| 1246 | ROWE | TRISHA | A |
| 1247 | ROWEN | MARSHALL | |

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| 1248 | ROWLAND | MYRA | |
| 1249 | ROYAL INVESTORS GROUP | | |
| 1250 | ROYAL INVESTORS GROUP LLC | | |
| 1251 | ROYAL WESTERN PROPERTIES | | |
| 1252 | ROYAL WESTERN PROPERTIES LLC | | |
| 1253 | RUBENSTEIN | JAMES | |
| 1254 | RUFF | DORIS | E |
| 1255 | RUFF | EDWARD | L |
| 1256 | RUNDT | EDNA | V |
| 1257 | RUNKLE | DEWEY | R |
| 1258 | RUONA | LYNN | M |
| 1259 | RUOPP | FREDERICK | J |
| 1260 | RUSSELL | BERNA | |
| 1261 | RUSSELL | HELEN | B |
| 1262 | RUSTON | PATRICIA | |
| 1263 | RUSTON | TOM | F |
| 1264 | SACMAN | HERMOGENES | V |
| 1265 | SAITO | KATSUJI | |
| 1266 | SALAZAR | GABRIEL | |
| 1267 | SALEH | HOGER | R |
| 1268 | SALLEN | BETTY | |
| 1269 | SALLEN | JOSEPH | |
| 1270 | SALOMON | FRANKIE | H |
| 1271 | SAN DIEGO FRENCH AMERICAN | | |
| 1272 | SANCHEZ | FRANCISCO | |
| 1273 | SANCHEZ | MARIA | F |
| 1274 | SANTANA | DIGNA | S |
| 1275 | SANTANA | PEDRO | |
| 1276 | SANTOS | GREGORIO | R |
| 1277 | SAPARZADEH | DANIEL | |
| 1278 | SAROMINES | JOSE | A |
| 1279 | SARRIS | GUSTAVE | |
| 1280 | SASAKI FAMILY TRUST 1995 | | |
| 1281 | SAUER | KAREN | |
| 1282 | SAY | AMY | Y |
| 1283 | SCATTAGLIA | FRANCES | |
| 1284 | SCATTAGLIA | FRANCES | M |
| 1285 | SCHAD | WILLIAM | O |
| 1286 | SCHAEFFER | ALICE | M |
| 1287 | SCHAEFFER | BUD | S |
| 1288 | SCHEMENAUER | STACY | J |
| 1289 | SCHILLING | LAWRENCE | |
| 1290 | SCHILLING | MARY | |
| 1291 | SCHIPPER | SYLVIA | J |
| 1292 | SCHLEGEL | JUDITH | A |
| 1293 | SCHLEGEL | STEPHEN | J |
| 1294 | SCHMIDT | HERMAN | A |
| 1295 | SCHOEPFLIN | HAZEL | E |
| 1296 | SCHOEPFLIN | NIEL | |
| 1297 | SCHULTE | JOHN | L |
| 1298 | SCHULTZ | PHILIP | |
| 1299 | SCIDMORE | BETTY | |

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| 1300 | SCOTT | ROBERT | D |
| 1301 | SCRUGGS | PATRICIA | L |
| 1302 | SCS FAMILY LIMITED PARTNERSHIP | | |
| 1303 | SEGROVE | HENRY | H |
| 1304 | SEIBERT | FLORENCE | G |
| 1305 | SELLSITE & UNITED LLC | | |
| 1306 | SELNICK | ALVIN | A |
| 1307 | SEMERAU | DEWILLO | F |
| 1308 | SEMOTAN | CARL | W |
| 1309 | SERVICE ROCK PRODUCTS CORP | | |
| 1310 | SEVEN STAR UNITED LLC | | |
| 1311 | SEXTON | RALPH | F |
| 1312 | SF PACIFIC PROPERTIES INC | | |
| 1313 | SHADD | EUGENIA | |
| 1314 | SHAKIB | KAMRAM | S |
| 1315 | SHANNON | WILLIAM | J |
| 1316 | SHEARER | CATHERINE | L |
| 1317 | SHEARER MARITAL TRUST | | |
| 1318 | SHELTON | EDWARD | W |
| 1319 | SHERMAN | EARNEST | G |
| 1320 | SHIBUYA | HAJIME | |
| 1321 | SHIBUYA | KYOKO | |
| 1322 | SHIMABUKURO | LUPE | |
| 1323 | SHIMABUKURO | RODNEY | |
| 1324 | SHIMIZU | YOSHIAKI | |
| 1325 | SHIMOMURA | SHOGO | |
| 1326 | SHIU | ALVES | |
| 1327 | SHLOMI | BENJAMIN | |
| 1328 | SHOKRI | BEHROUZ | |
| 1329 | SHOKRI | FARIBA | |
| 1330 | SHOKRIAN | ELLIAS | |
| 1331 | SHOKRIAN | SHIRLEY | |
| 1332 | SIAM INV CORP | | |
| 1333 | SIAM INVESTMENT CORP | | |
| 1334 | SICAT | LOLITA | D |
| 1335 | SICCAMA | JAKOB | K |
| 1336 | SIEBERT | JEFFREY | L |
| 1337 | SIEBERT | NANCEE | J |
| 1338 | SIERRA GATEWAY RESOLUTION LLC | | |
| 1339 | SIMON | EDWARD | B |
| 1340 | SIMPSON | DONNA | L |
| 1341 | SIMPSON | GARETH | L |
| 1342 | SIMS | TAFFIE | J |
| 1343 | SIMS | THEODORE | H |
| 1344 | SINGH | GORA | |
| 1345 | SINGH | TINA | C |
| 1346 | SIREX | LESLIE | A |
| 1347 | SIVILLE | ESTHER | M |
| 1348 | SIVILLE FAMILY TRUST | | |
| 1349 | SKAGGS | CHARLES | R |
| 1350 | SKAGGS | REBECCA | S |
| 1351 | SKIADAS | GEORGETTE | |

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| 1352 | SKINNER | CHARLES | |
| 1353 | SKINNER | SHARREN | |
| 1354 | SMALL | FRANK | A |
| 1355 | SMEJKAL | EUGENE | F |
| 1356 | SMITH | CHONG | H |
| 1357 | SMITH | JAMES | C |
| 1358 | SMITH | LARRY | A |
| 1359 | SMITH | PATRICIA | A |
| 1360 | SMITH | ROBERT | WAYNE |
| 1361 | SMUTZ | GLEN | R |
| 1362 | SNEED | ODIS | |
| 1363 | SOARING VISTA PROPERTIES INC | | |
| 1364 | SONG | MI | R |
| 1365 | SORRENTO WEST PROPERTIES INC | | |
| 1366 | SOTEROPOULOS | KONSTANTINOS | |
| 1367 | SOTO | JUAN | M |
| 1368 | SOUTH | JAMES | T |
| 1369 | SOUTHCOTT | BERNEICE | B |
| 1370 | SOUTHERN CA EDISON CO | | |
| 1371 | SOUTHERN CALIFORNIA EDISON | | |
| 1372 | SOVICH | EDWARD | S |
| 1373 | SOWERSBY | KIM | |
| 1374 | SPERLING | FRANCIS | F |
| 1375 | SSERUNKUMA | DAVID | |
| 1376 | ST JUDES RANCH FOR CHILDREN INC | | |
| 1377 | STADLER | VIRGINIA | |
| 1378 | STAMBACK | LINDA | |
| 1379 | STATHATOS | HELEN | |
| 1380 | STATHATOS | SAVAS | |
| 1381 | STENBERG | COLUMBIA | M |
| 1382 | STENERSON | ALAN | G |
| 1383 | STEPHENSON | DEBORAH | |
| 1384 | STERKEL | TERESITA | C |
| 1385 | STERN | ELEANOR | |
| 1386 | STERN | JOHN | |
| 1387 | STERNBERG | RICHARD | R |
| 1388 | STIPANCIC TR | | |
| 1389 | STONE | BRIAN | P |
| 1390 | STOVER | LOIS | A |
| 1391 | STRAWMYER | CLEO | P |
| 1392 | STREMEL | WILMA | M |
| 1393 | STUBNER | STEVE | J |
| 1394 | STURM | GUZEL | |
| 1395 | SU | JOHN | |
| 1396 | SUGARMAN | JORDAN | M |
| 1397 | SUGARMAN | RUTH | G |
| 1398 | SULPACIO | CARMELITA | C |
| 1399 | SULPACIO | ROMEO | R |
| 1400 | SUMMERS | EUGENE | W |
| 1401 | SUMMERS | JUANITA | B |
| 1402 | SUMMERS | QUEENIE | |
| 1403 | SUN | CHRISTOPHER | S |

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| 1404 | SUN | JOHN | S |
| 1405 | SUNJKA | FRANA | |
| 1406 | SUNJKA | JOSEPH | |
| 1407 | SUNLIGHT TOWNHOME LLC | | |
| 1408 | SUPA | LENNY | C |
| 1409 | SUPERMED HEALTH INC | | |
| 1410 | SWEIS | FADIA | M |
| 1411 | SWEIS | SAMIR | S |
| 1412 | SZETO | ETHEL | |
| 1413 | T L SQUARED LLC | | |
| 1414 | TAFT | ALAN | R |
| 1415 | TAFT | TERIANNE | N |
| 1416 | TAKAGI | TAKASHI | |
| 1417 | TAKASHITA | REIKO | |
| 1418 | TALLEY | GROVER | L |
| 1419 | TAM | HERBERT | H |
| 1420 | TAMAYO | CRES | S |
| 1421 | TAMAYO | MACARIO | S |
| 1422 | TAN | CORAZON | D |
| 1423 | TAN | FIDELINO | M |
| 1424 | TANAKA | ALICE | T |
| 1425 | TANAKA | ROY | T |
| 1426 | TANIGUCHI | JOHN | M |
| 1427 | TANIGUCHI | ROBIN | LEE |
| 1428 | TAO | CHI-KWANG | |
| 1429 | TAO | TING-NING | |
| 1430 | TAPIA | GEORGE | |
| 1431 | TAYLOR | F | CATHERINE |
| 1432 | TAZMAN | | |
| 1433 | TEJON RANCH CO | | |
| 1434 | TEJON RANCHCORP | | |
| 1435 | TEJON RANCHERO LAND CO LLC | | |
| 1436 | TEJON RANCHO CO | | |
| 1437 | TERAYAMA | SADAKO | M |
| 1438 | TERUYA | FUMIO | |
| 1439 | TERUYA | HISAKO | |
| 1440 | TESTA | NICHOLAS | J |
| 1441 | THOMPSON | LARRY | L |
| 1442 | THOMPSON | LARRY | L |
| 1443 | THOMPSON | MARY | A |
| 1444 | THOMPSON | WILLIAM | A |
| 1445 | THORNTON | LYDIA | N |
| 1446 | THORNTON | LYDIA | |
| 1447 | THORNTON | ROBERT | S |
| 1448 | THORNTON | ROBERT | |
| 1449 | THREE ARKLIN LLC | | |
| 1450 | THROAT APPLES INC PROFIT SHARING | | |
| 1451 | THYRA RETZKE FAMILY TRUST | | |
| 1452 | TICHAUER | RONALD | |
| 1453 | TIENDAS | LOUISE | |
| 1454 | TIENDAS | TERTIUS | A |
| 1455 | TIERRA BONITA RANCH COMPANY | | |

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|---|---|---|---|
| 1456 | TING | CHIANG | CHANG |
| 1457 | TITLE | INSURANCE | |
| 1458 | TITLE INS AND TR CO | | |
| 1459 | TIVENS | LYNN | B |
| 1460 | TKATCH | IVAN | O |
| 1461 | TOBIAS | BEVERLY | J |
| 1462 | TOBIN | ARTHUR | |
| 1463 | TOBIN | HILDA | B |
| 1464 | TODAY INVESTMENT GROUP LLC | | |
| 1465 | TOMEI | ALICE | A |
| 1466 | TOMEI | RALPH | Y |
| 1467 | TOMKIEWICZ | GLEN | R |
| 1468 | TOMKIEWICZ | JILL | C |
| 1469 | TOMLINSON | BENNY | N |
| 1470 | TORRES | DALISAY | S |
| 1471 | TORRES | EDILBERTO | C |
| 1472 | TORRES | NERIO | |
| 1473 | TORRES | SHIRLEY | D |
| 1474 | TORRES | VICTOR | J |
| 1475 | TORREZ | DONATO | |
| 1476 | TOVAR | FELIPE | P |
| 1477 | TRAN | HUYNH | V |
| 1478 | TRAN | JEANNIE | N |
| 1479 | TREACY | PATRICK | J |
| 1480 | TREMBLAY | SHARON | |
| 1481 | TROCHIM | EMMA | |
| 1482 | TROCHIM | WALDEMAR | |
| 1483 | TRUONG | JENNY | P |
| 1484 | TSEN | LIU FANG | |
| 1485 | TSUHAKO | GAIL | S |
| 1486 | TSUHAKO | JOHN | I |
| 1487 | ULAT | ARTHUR | T |
| 1488 | ULAT | ELDENA | R |
| 1489 | UNFRIED | RICHARD | H |
| 1490 | UNISON INVESTMENT COMPANY LLC | | |
| 1491 | UONG | HOA | |
| 1492 | UPDEGRAFT | JERRY | P |
| 1493 | URBAN | LESLIE | |
| 1494 | USA GOLDEN LAND INVESTMENT LLC | | |
| 1495 | USHIGOME | CIV | K |
| 1496 | UYEHARA | AMELIA | T |
| 1497 | UYEHARA | EDDIE | K |
| 1498 | VAHAN | ELLEN | T |
| 1499 | VALDEZ | ELPIDIO | O |
| 1500 | VALENTINE | ROLAND | M |
| 1501 | VAN DAM | CRAIG | |
| 1502 | VAN DAM | CRAIG | A |
| 1503 | VAN DAM | DELMAR | |
| 1504 | VAN DAM | DELMAR | D |
| 1505 | VAN DAM | GARY | L |
| 1506 | VAN DAM | GARY | |
| 1507 | VAN DAM | GERTRUDE | |

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|---|---|---|---|
| 1508 | VANCE | EVANGELINE | S |
| 1509 | VANDERGROEN | DONNA | L |
| 1510 | VANDERGROEN | RONALD | E |
| 1511 | VARELA | VICTOR | |
| 1512 | VAUGHN | DANNY | M |
| 1513 | VELCHEZ | GIL | V |
| 1514 | VELCHEZ | LOLITA | A |
| 1515 | VELUR PROPERTIES LLC | | |
| 1516 | VICARI | CRISPINO | |
| 1517 | VICENS | ISAIAS | V |
| 1518 | VILLAGOMEZ | BERTHA | |
| 1519 | VILLARENTE | NORMA | G |
| 1520 | VILLARUEL | PERFECTO | M |
| 1521 | VILLEGAS | DORIS | |
| 1522 | VILLEGAS | GREGARIO | |
| 1523 | VILORIA | MARGARITA | G |
| 1524 | VILT | EDWARD | E |
| 1525 | VIRTUE | RODGER | |
| 1526 | VISITACION | DANNY | |
| 1527 | VISITACION | SALLY | J |
| 1528 | VONBORCKE | RICHARD | |
| 1529 | VONDRA | ELISA | K |
| 1530 | VONDRA | JAMES | L |
| 1531 | VULCAN LANDS INC | | |
| 1532 | WADE | ROBERT | L |
| 1533 | WAGAS LAND COMPANY | | |
| 1534 | WAKEHAM | BARBARA | P |
| 1535 | WALDEN | DANIEL | C |
| 1536 | WALKER | CECIL | |
| 1537 | WALKER | GRACE | |
| 1538 | WALLACE | PATRICIA | |
| 1539 | WALLACE | WILLIAM | |
| 1540 | WANG | JOSEPHINE | |
| 1541 | WANG | LUCY | B |
| 1542 | WANG | WONG | YUH-HUA |
| 1543 | WARM SPRINGS INVESTMENTS LTD | | |
| 1544 | WARMINGTON | WILLIAM | |
| 1545 | WARNACK | A | C |
| 1546 | WARNACK | A | C |
| 1547 | WARNER | JAMES | L |
| 1548 | WARNER | LEIGH | J |
| 1549 | WATSON | AMY | S |
| 1550 | WEAVER | ELIZABETH | C |
| 1551 | WEBB | GEORGE | O |
| 1552 | WEBB TRUST | | |
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| 1554 | WEI | CECILIA | |
| 1555 | WEI | CHUNG | H |
| 1556 | WEI | SUHMEI | L |
| 1557 | WEST | IVAL | V |
| 1558 | WHEATON | RICHARD | |
| 1559 | WHICHER | LAURIE | S |

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| 1560 | WHICHER | LAURIE | S |
| 1561 | WHITE | BETTY | J |
| 1562 | WHITE | EDWARD | A |
| 1563 | WHITE | JAMES | E |
| 1564 | WHITE | LORETTA | M |
| 1565 | WHITE | RICHARD | A |
| 1566 | WHITE | VIVIAN | L |
| 1567 | WHITE | WALT | |
| 1568 | WHITTAKER | JOSEPH | L |
| 1569 | WILCOX | GARY | J |
| 1570 | WILLIAMS | CYNTHIA | JEAN |
| 1571 | WILLIAMS | RONLLD | |
| 1572 | WILLIAMS FMLY TR | | |
| 1573 | WILSON | DONALD | D |
| 1574 | WILSON | HARRY | Z |
| 1575 | WILSON | MARIE | J |
| 1576 | WILSON FAMILY TR | | |
| 1577 | WINDHAM | WALTER | |
| 1578 | WINKLER | DONALD | D |
| 1579 | WINKLER | SUSAN | H |
| 1580 | WINTERS | THERESA | |
| 1581 | WKR360-6 LLC | | |
| 1582 | WLOCZYK | HEATWIG | B |
| 1583 | WOLFE | MARGARET | J |
| 1584 | WOLFE | OTIS | V |
| 1585 | WONG | GARY | ALAN |
| 1586 | WONG | JOHNNY | |
| 1587 | WONG | MAI | T |
| 1588 | WONNELL | KAREN | E |
| 1589 | WOOD FAMILY TR | | |
| 1590 | WOODALL | ROBERT | M |
| 1591 | WOODWARD | RUSSELL | G |
| 1592 | WRAY | MARY | |
| 1593 | WRIGHT | EMIKO | T |
| 1594 | WRIGHT | ROBERT | R |
| 1595 | WU | MIKE | M |
| 1596 | YAGO | ANTONIO | |
| 1597 | YAMADA | GRACE | |
| 1598 | YANEZ | MARIA | F |
| 1599 | YANG | WENDY | |
| 1600 | YANKOVICH | JOSEPH | E |
| 1601 | YEH | VIVIAN | HWA |
| 1602 | YEOMANS | MONICA | A |
| 1603 | YIN | TAMMY | P |
| 1604 | YOSHINO | BARNEY | |
| 1605 | YOUNG | CARLOS | A |
| 1606 | YOUNG | JULIE | Y |
| 1607 | YOUNG | KIM | J |
| 1608 | YU | BOB | H |
| 1609 | YU | KYU | S |
| 1610 | YU | ROGER | |
| 1611 | YUNG | BRIAN | |

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|---|---|---|---|
| 1612 | YUNG | LINCOLN | CHU KUEN |
| 1613 | ZEDICHER | CORAL | K |
| 1614 | ZEDICHER | DONALD | L |
| 1615 | ZHAN | HAO | |
| 1616 | ZIMMERMAN | STANLEY | M |
| 1617 | ZUCKER | MILTON | O |
| 1618 | ZUCKER | NATALIE | V |
| 1619 | ZUMEL | ELENA | |
| 1620 | ZUMEL | RICHARD | |
| 1621 | ZWINGER | CHARLOTTE | |

# Exhibit 2

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(ADDITIONAL COUNSEL ARE LISTED ON SIGNATURE PAGES)

Superior Court of the State of California

County of Los Angeles

ANTELOPE VALLEY GROUNDWATER CASES

This Pleading Relates to Included Action:
REBECCA LEE WILLIS, on behalf of herself and all others similarly situated,

Plaintiff,

v.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF LOS ANGELES; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICES DISTRICT; and DOES 1 through 1,000;

Defendants.

JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408

Case No. BC 364553

**WILLIS CLASS STIPULATION OF SETTLEMENT**

LAW OFFICES OF
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This Stipulation of Settlement (the "Stipulation" or "Agreement") is entered into this 13th day of July 2010 by and between California Water Service Company, City of Palmdale, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 ("District 40"), Palmdale Water District, Palm Ranch Irrigation District, Phelan Pinon Hills Community Services District, Quartz Hill Water District, and Rosamond Community Services District, Desert Lake Community Services District and North Edwards Water District (collectively, "Settling Defendants"), on the one hand, and Rebecca Lee Willis and the Willis Class (as more fully defined below), which consists of certain persons who own property(ies) that overly the Antelope Valley Groundwater Basin (the "Basin") on which they do not and have not pumped groundwater, on the other hand. Settling Defendants, Rebecca Lee Willis, and the Willis Class are collectively referred to as the "Settling Parties," or individually a "Settling Party." This Stipulation and the Exhibits hereto set forth the terms of a settlement (the "Settlement") between and among the Settling Parties compromising and dismissing the claims and defenses they have asserted in the above-captioned action. The Settlement is subject to approval by the Superior Court of California for Los Angeles County; in the event such approval is denied, cannot be obtained, or is reversed on appeal, this Stipulation shall have no further force or effect, and the Settling Parties shall be returned to their respective positions in the litigation prior to execution of this Stipulation.

I. THE SETTLING PARTIES

A. The Settling Plaintiffs are Rebecca Lee Willis and the members of the Willis Class, as defined in paragraph II, D below.

B. The Settling Defendants are as follows:

1. California Water Service Company is a California corporation which extracts groundwater from the Basin to serve customers within the Basin.

2. The City of Palmdale is a municipal corporation in the County of Los Angeles which receives water from the Basin.

3. Littlerock Creek Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

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4. Los Angeles County Waterworks District No. 40 ("District 40") is a public agency governed by the Los Angeles County Board of Supervisors. District 40 has been lawfully organized to perform various functions, including producing water from the Basin, which it provides to more than 65,000 residential and commercial customers in the Basin.

5. Palmdale Water District is an irrigation district organized and operating under Division 11 of the California Water Code, which produces groundwater from the Basin to serve customers within the Basin.

6. Palm Ranch Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

7. Rosamond Community Services District is a public agency which produces water from the Basin which it provides to customers within the Basin.

8. Quartz Hill Water District is a county water district organized and operating under Division 12 of the California Water Code. It produces water from the Basin.

9. Phelan Pinon Hills Community Services District is a public water supplier which produces water from the Basin.

10. Desert Lake Community Services District is a public agency which produces groundwater from the Basin.

11. North Edwards Water district is a public agency which produces groundwater from the Basin.

II. RECITALS

A. On or about November 29, 2004, District 40 commenced a civil action against Overlying Owners (more specifically defined in III. M) in the Basin, which is now pending in the Superior Court for Los Angeles County, seeking, inter alia, an adjudication of their respective rights to produce groundwater from the Basin. On or about July 11, 2005, that case was coordinated with several quiet title actions that had been brought by Basin landowners, which also sought a declaration of the parties' rights to produce and use the Basin's groundwater. Antelope Valley Groundwater Cases, No. 1-05-CV049053 (JCCP 4408) (hereinafter the "Coordinated Actions"). The Coordinated Actions are pending before the Honorable Jack Komar.

B. On or about October 10, 2006, the Court held an initial phase of trial with respect to the boundaries of the Basin. The Court issued an Order on November 3, 2006, defining the Basin for purposes of this litigation.

C. On or about January 11, 2007 Plaintiff, Rebecca Lee Willis ("Willis"), filed a class action complaint in the Superior Court of the State of California for Los Angeles County (No. BC 364553) (the "Willis Action") in which she alleged that certain Public Water Suppliers had wrongfully claimed prescriptive rights to the Basin's groundwater. Willis sought, inter alia, a declaration that the Settling Defendants had not obtained prescriptive rights as to her or Willis Class Members (more specifically defined in III.X). On or about April 10, 2007, the Willis Action was coordinated as part of the Coordinated Actions.

D. By Order dated September 11, 2007 (as amended by Orders dated May 22, 2008 and September 2, 2008), the Court certified Willis as the representative of a Class of certain Overlying Owners (more specifically defined in if III.M. below) pursuant to Section 382 of the California Code of Civil Procedure and Division 7, Chapter 6 of the Rules of Court.

E. In early January 2009, Notice of the Pendency of the Willis Action was sent by first class mail to all Willis Class Members (more specifically defined in III.X below) who could be identified with reasonable effort and a summary notice was published. The deadline for putative Willis Class Members to exclude themselves (as extended) expired on August 30, 2009. The Court has made various orders allowing certain parties to rejoin the Willis Class.

F. The Settling Parties have actively discussed potential settlement for much of this year. On or about September 2, 2009, the Settling Parties engaged in mediation before the Honorable Ronald Robie during the course of which counsel for most of the parties reached an agreement in principle to settle the Willis Action, subject to the negotiation of a final settlement agreement, client approvals, and approval by the Court.

G. On or about February 19, 2010, the Court entered an Order Transferring and Consolidating Actions for All Purposes (hereinafter the "Consolidated Actions").

H. Over the course of the last three years, the Settling Plaintiffs' counsel have conducted a thorough investigation of the facts and law relating to the matters at issue in the

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Consolidated Actions and have evaluated the merits of all Settling Parties' contentions and the impact this Settlement will have on the Willis Class Members. After evaluating the foregoing, the Settling Plaintiffs and counsel are satisfied that the terms and conditions of this Stipulation are fair, reasonable, and adequate, and that the Settlement is in the best interest of the Willis Class Members.

I. The Settling Defendants contend that they have prescriptive rights to substantially more than 15% of the Basin's Native Safe Yield. The Settling Plaintiffs contend that the Settling Defendants have no such prescriptive rights as to them. This Settlement reflects a compromise between the Settling Parties and shall not (1) be construed as an admission or concession by any Settling Party of the truth of any allegation or the validity of any claim or defense asserted in any of the pleadings, (2) be construed to prejudice the rights, claims, or defenses of any persons who are not Settling Parties, or (3) be construed to prejudice the rights, claims, or defenses (whether asserted or potential) of any Settling Party vis-à-vis any non-settling party.

J. The United States owns property within the Basin as to which it claims a Federal Reserved Right to produce groundwater.

III. DEFINITIONS

The following terms used in this Stipulation shall have the meanings set forth below:

A. "Assessments" means any monetary or other levy or charge imposed as part of a Physical Solution.

B. "Basin" means the Antelope Valley Groundwater Basin as defined in the Court's Order of November 3, 2006.

C. "Consolidated Actions" means all actions that have been or subsequently were coordinated as part of Judicial Council Coordination Proceeding No. 4408 and all actions that have been or subsequently were consolidated pursuant to the Court's Order from February 19, 2010.

D. "Correlative Rights" means the principle of California law, articulated in Katz v. Walkinshaw (1903) 141 Cal. 116 and subsequent cases, that Overlying Owners may make reasonable and beneficial use of the water in a Basin and that, if the supply of water is insufficient

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for all reasonable and beneficial needs, each Overlying Owner is entitled to a fair and just proportion of the water available to the Overlying Owners.

E. "Court" means the Honorable Jack Komar, sitting by designation as a Judge of the Superior Court of Los Angeles County or such other Judge as may be designated by the Judicial Conference to hear JCCP No. 4408.

F. "Effective Date" means the date on which the Court's Judgment granting final approval to the Settlement becomes final and not subject to further appeal.

G. "Federal Reserved Right" is the principle originally articulated in Winters v. United States (1908) 207 U.S. 564 and more recently in *Cappaert v. United States* (1976) 426 U.S. 128, which holds that when the Federal Government reserves land from the public domain, it impliedly reserves sufficient water to serve the purposes for which the lands were reserved, and the quantity of reserved water is limited to the amount necessary to fulfill the purposes of the reserved land. The United States contends that the Federal Reserved Right entitles the United States to a prior and paramount right to a portion of the Native Safe Yield.

H. "Federally Adjusted Native Safe Yield" for any given year means the Basin's Native Safe Yield less the actual annual production of the United States' during the prior year pursuant to its Federal Reserved Right.

I. "Final Judgment" means a final judgment to be entered by the Court in the above matter, which approves the terms and provisions of this Stipulation, and is substantially in the form attached hereto as Exhibit A.

J. "Imported Water" means water that enters the Basin and that originates outside the Basin that is not part of the Basin's Native Safe Yield, and that, absent human intervention, would not recharge or be used in the Basin. Imported Water does not include water purchased by the Watermaster with Replacement Assessments or bottled water.

K. "Native Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions, generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin, results in no long-term depletion of

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Basin groundwater storage. Pumping of the Settling Parties' share of Native Safe Yield is not subject to any Replacement Assessment.

L. "Overlying Right" means the appurtenant right of an Overlying Owner to use groundwater from the Native Safe Yield for overlying reasonable and beneficial use.

M. "Overlying Owners" means owners of land overlying the Basin who hold an Overlying Right.

N. "Physical Solution" means a mechanism that comprehensively resolves the competing claims to the Basin's water and provides for the management of the Basin. The Settling Parties anticipate that this Settlement will later be incorporated into a Physical Solution.

O. "Preliminary Approval Order" means the Court's Order granting preliminary approval to the Settlement set forth herein, directing the manner in which notice of the Settlement shall be provided to the Willis Class, and scheduling a final Hearing for the Court to consider whether to approve the Settlement. The Settling Parties will submit a proposed Preliminary Approval Order in the form appended as Exhibit B hereto.

P. "Recycled Water" means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource..

Q. "Replacement Assessment" means the charge imposed on any Settling Party by the Watermaster for producing more water than it is entitled to produce from the Basin under the terms of this Settlement or pursuant to such further orders as the Court may enter in the Coordinated Actions.

R. "Replacement Water" means water purchased by the Watermaster to offset production in excess of a Settling Party's share of Total Safe Yield.

S. "Return Flows" means the amount of water that is put to reasonable and beneficial agricultural, municipal or other use and thereafter returns to the Basin and is part of the Basin's Total Safe Yield.

T. "Settlement" means this Stipulation, including the Exhibits appended hereto.

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U. "Total Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin and Return Flows derived from Imported Water, results in no long-term depletion of Basin groundwater storage.

V. "Transition Period" means the period of time provided for in the Physical Solution during which the parties' right to produce water from the Native Safe Yield free from Replacement Assessment will decrease to amounts that total no more than that party's share of Native Safe Yield.

W. "Watermaster" means the person or entity appointed by the Court to monitor and manage the Basin's groundwater, subject to oversight by the Court.

X. "Willis Class" or "Willis Class Members" means the Willis Class as defined in the Court's Order of September 11, 2007, as amended by the Court's Orders of May 22, 2008, and September 2, 2008, but shall exclude all persons who timely excluded themselves from the Willis Class and have not rejoined the Willis Class. The Willis Class consists of the following:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as `improved' by the Los Angeles County or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties."

## IV. SETTLEMENT TERMS

In consideration of the covenants and agreements set forth herein, and of the releases and dismissals described below, the Settling Parties agree to settle and compromise the claims that have been asserted or that could have been asserted between and among the Willis Class and the

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Settling Defendants, subject to Court approval, on the following terms and conditions:

A. Native Safe Yield.

Settling Defendants and the United States contend that the best estimate of the Basin's Native Safe Yield is 82,300 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest the Native Safe Yield proposed by the Settling Defendants as long as it is at least 82,300 acre-feet per year. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Native Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

B. Total Safe Yield.

The Settling Defendants contend that the best estimate of the Basin's Total Safe Yield is 110,500 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest that estimate. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Total Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

C. Federal Reserved Right.

The United States contends that it is entitled to a Federal Reserved Right. The Settling Parties agree that the Federal Government has a Federal Reserved Right to use a portion of the Native Safe Yield. The Settling Parties agree that the Court will decide the amount of the Federal Reserved Right and they agree to be bound by the Court's determination.

D. Allocation Of Federally Adjusted Native Safe Yield.

The Settling Parties agree to be bound by the Court's determination of the amounts of the Basin's Native Safe Yield and the United States' Federal Reserved Right. The Basin's Federally Adjusted Native Safe Yield shall be the Basin's Native Safe Yield less the prior year's production of water by the United States (not to exceed the Federal Reserved Right). The Settling Parties agree that the Settling Defendants and the Willis Class Members each have rights to produce groundwater from the Basin's Federally Adjusted Native Safe Yield.

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1. Settling Defendants' Water Rights

Settling Defendants have asserted in the Coordinated Actions that they have obtained prescriptive rights to the Basin's Native Safe Yield. This Stipulation shall neither be construed to recognize prescriptive rights nor to limit the Settling Defendants' prescriptive claims vis-a-vis the Basin or any non-settling parties, but rather as an agreement to fairly allocate the Settling Parties' respective rights to use the Basin's water. The Settling Parties agree that the Settling Defendants collectively have the right to produce up to 15% of the Basin's Federally Adjusted Native Safe Yield free of any Replacement Assessment. The Willis Class will not take any positions or enter into any agreements that are inconsistent with the exercise of the Settling Defendants' rights.

2. Willis Class Members' Pumping Rights

The Settling Parties agree that the Willis Class Members have an Overlying Right to a correlative share of 85% of the Federally Adjusted Native Safe Yield for reasonable and beneficial uses on their overlying land free of any Replacement Assessment. The Settling Defendants will not take any positions or enter into any agreements that are inconsistent with the exercise of the Willis Class Members' Overlying Right to produce and use their correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield.

a. Safe Harbor.

The Willis Class Members acknowledge that the Settling Defendants may at trial prove prescriptive rights against all groundwater pumping in the Basin during a prior prescriptive period. If the Settling Defendants do prove prescriptive rights, Settling Defendants shall not exercise their prescriptive rights to diminish the Willis Class Members' Overlying Right below a correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield. If the Settling Defendants fail to prove any prescriptive rights, this Agreement shall not diminish at all the rights of Willis Class Members to make reasonable and beneficial use of a correlative share of the Basin's Federally Adjusted Native Safe Yield. In no event shall this Agreement require the Willis Class Members to give to the Settling Defendants more than 15% of any rights to use the Basin's groundwater that they may obtain by way of settlement or judgment. If there is a subsequent Court decision whereby the Court determines that the Willis Class Members do not

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have Overlying Rights, this Agreement shall not require Settling Defendants to give the Willis Class Members any right to pump from the Native Safe Yield.

3. Correlative Rights Of Overlying Landowners

The Willis Class Members recognize that other Overlying Owners may have the right to pump correlatively with them 85% of the Federally Adjusted Native Safe Yield of the Basin for reasonable and beneficial uses on their overlying land.

4. Return Flows From Imported Water

a. The Settling Parties acknowledge and agree that they all have the right to recapture Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin, consistent with California law. The Settling Parties will not be subject to any Replacement Assessment for their production of an amount equal to the Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin.

b. Settling Defendants believe that the best estimates of Return Flows from Imported Water are (a) 25% of the water used for agricultural purposes and (b) 28% of the water used for municipal and industrial purposes. Settling Defendants further believe that the best estimate of total annual Return Flows from Imported Water is 28,200 acre-feet of which 25,100 acre-feet is from municipal and industrial use and 3,100 acre-feet is from agricultural use. The Willis Class agrees not to contest those estimates, and all Settling Parties agree to be bound by any findings that may later be made by the Court with respect thereto.

V. MANAGEMENT OF THE BASIN

A. General

The Settling Parties agree that the Basin has limited water resources and that they should use their best efforts to conserve and maximize reasonable and beneficial use. The Settling Parties further agree that there is a need to create a groundwater management plan to ensure that pumping from the Basin does not exceed the Basin's Total Safe Yield and that the Court should appoint a Watermaster to oversee the management of the Basin's water resources.

B. Physical Solution

The Settling Parties expect and intend that this Stipulation will become part of a Physical

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Solution entered by the Court to manage the Basin and that the Court will retain jurisdiction in the Coordinated Actions. The Settling Parties agree to be part of such a Physical Solution to the extent it is consistent with the terms of this Stipulation and to be subject to Court-administered rules and regulations consistent with California and Federal law and the terms of this Stipulation. The Settling Parties agree that the Physical Solution may require installation of a meter on any groundwater pump by a Willis Class Member before a Willis Class Member may produce groundwater. The responsibility for the cost of such meters will be determined by the Court.

C. Transition Period.

The Settling Parties agree that net groundwater production from the Basin needs to be reduced over a period of time from current levels to no more than the Basin's Total Safe Yield. This can be accomplished by reducing pumping and/or purchasing Replacement Water. The Settling Parties agree that the Transition Period should begin at the date of entry of Final Judgment in the Coordinated Actions and should last seven years. During the first two years of the Transition Period no effort will be made to curtail groundwater pumping and no Replacement Assessments will be made. By the end of the seventh year of the Transition Period, groundwater pumping from the Basin without Replacement Assessment for Replacement Water will not exceed the Native Safe Yield.

D. Replacement Water.

The Settling Parties recognize the right of any Settling Party to produce groundwater from the Basin above their share of the Native Safe Yield, subject to the Physical Solution and to any Replacement Assessment. The Settling Parties agree to provide or purchase Imported Water for all groundwater pumping that exceeds a Settling Party's share of the Federally Adjusted Native Safe Yield. The Settling Parties agree that any Settling Party who produces more than its annual share of the Federally Adjusted Native Safe Yield in any year will be responsible to provide Replacement Water or pay a Replacement Assessment to the Watermaster so that the Watermaster can purchase Imported Water to recharge the Basin.

E. Water Storage

The Settling Parties agree that water storage in the Basin offers significant benefits and

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should be encouraged. The Settling Parties further recognize that there is a limit on the Basin's available storage space and that the storage of water for uses within the Basin should have priority over storage for use outside the Basin. Subject to those general principles, the Settling Parties agree that water storage should be permitted and encouraged and agree to support appropriate provisions in the Physical Solution.

F. Recycled Water

The Settling Parties agree that it is important to encourage the treatment and use of Recycled Water. The Willis Class agrees not to challenge or otherwise contest Settling Defendants' claims to Return Flows from Recycled Water that was reclaimed by the Sanitation Districts of Los Angeles County.

VI. PROCEDURES FOR CLASS NOTICE AND HEARING ON MOTIONS FOR PRELIMINARY AND FINAL APPROVAL OF STIPULATION

A. Preliminary Approval Motion and Settlement Notice.

Settling Plaintiffs shall file a motion for preliminary approval ("Preliminary Approval Motion") of the terms of the Settlement as soon as practicable following execution of this Stipulation by all Settling Parties. The Preliminary Approval Motion will seek entry of an Order Preliminarily Approving Class Action Settlement. The Preliminary Approval Motion shall include a proposed form of notice describing this Stipulation (the "Settlement Notice") to be disseminated to the Willis Class as well as a description of the procedures to be used in disseminating the Settlement Notice. The Settlement Notice shall be disseminated to all Willis Class Members by or under the supervision of counsel for District 40, with the expenses to be borne by District 40. The Settling Parties will attempt to agree upon the language for the Settlement Notice, but agree to be bound by the Court's determination in the event they have any disputes or disagreements in that regard. The Settling Parties agree to use their best efforts to have the Preliminary Approval Motion heard as promptly as is practical.

B. Final Approval Hearing.

The Settlement Notice will advise Willis Class Members of the date and time set for a Hearing on the Settling Plaintiffs' Motion for Final Approval of the Stipulation, including

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advising them of their rights to submit statements in support of or opposition to the Stipulation. The Final Approval Motion shall request that this Court find that the Stipulation and Proposed Final Judgment are fair, reasonable, and adequate to the Willis Class and shall seek entry of a Final Judgment substantially in the form attached hereto as Exhibit A.

VII. RELEASES AND DISMISSALS

A. Release By Settling Plaintiffs

1. In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Section VIII, Paragraph G of this Stipulation, and in consideration for the settlement consideration set forth above, and for other valuable consideration, the Settling Plaintiffs shall completely release, acquit and forever discharge the Settling Defendants from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Plaintiffs, or each of them, ever had, now has, or hereafter can, shall, or may have on account of or in any way arising out of, any and all known or unknown, foreseen or unforeseen, suspected or unsuspected injuries, damages, and the consequences thereof in any way arising out of or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Plaintiff may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Plaintiff hereby expressly waives and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts. As provided in the Release set forth above, the Settling Plaintiffs, including any of Settling Plaintiffs' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

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2. The Release set forth in Paragraph VII.A, above, does not include claims by any of the Settling Plaintiffs other than the claims set forth therein. In particular, the Settling Parties recognize that many persons own more than one parcel of land within the Basin. The foregoing Release only binds Willis Class Members and only with respect to those properties within the Basin on which they have not pumped water.

B. Release By Settling Defendants

In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Paragraph VIII.G of this Stipulation, and in consideration of the settlement consideration set forth above, and for other valuable consideration, the Settling Defendants completely release, acquit and forever discharge Settling Plaintiffs and the Willis Class Members from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Defendants, or any of them, ever had, now has, or hereafter can, shall, or may have arising from or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Defendant may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Defendant hereby waives any right to relief from the provisions of this Stipulation in such event, and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, and without regard to the subsequent discovery or existence of such different or additional facts.

1. As provided in the Release set forth in Paragraph VII.B, above, the Settling Defendants, including any of Settling Defendants' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

VIII. MISCELLANEOUS PROVISIONS

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A. No Concession By Any Settling Party

It is understood and agreed that this Stipulation represents the compromise of disputed positions with respect to the relevant facts and law. This Stipulation shall not be deemed a concession by any Settling Party as to any fact or the validity or invalidity of any claim or defense.

B. Best Efforts and Mutual Cooperation.

Settling Plaintiffs and Settling Defendants shall use their best efforts to effectuate this Stipulation and its purpose, and secure the prompt, complete, and final dismissal with prejudice of the Willis Action. The Settling Parties agree to take any and all reasonable steps that may be necessary in that regard, as long as those steps do not require any material deviations from the terms of this Stipulation or impose material new obligations beyond those contemplated by this Stipulation.

The Settling Parties recognize that not all parties to the Coordinated Actions have entered into this Stipulation and that a trial may be necessary as against non-settling parties. The Settling Parties agree to cooperate and coordinate their efforts in any such trial or hearing so as to obtain entry of judgment consistent with the terms of this Stipulation; this provision, however, will not require Willis Class counsel to participate in any such trial or render any efforts absent written agreement of Settling Defendants to compensate them for such efforts. Nor shall this Stipulation preclude Settling Plaintiffs from participating in any further proceedings that may affect their rights.

C. Adjustments Of Settling Parties' Estimates

In the event that the Court enters findings of fact that vary from the estimated amounts that the Settling Parties have agreed to for purposes of this Stipulation (including the length of the Transition Period described in Paragraph V.C.), the Court's findings will be determinative and will supplant the amounts set forth in this Stipulation. For example, if the Court should determine following trial that the Basin's Total Safe Yield is, in fact, 120,000 acre-feet per year (or some other amount), the Court's findings will control.

D. Fees And Costs Of Settling Plaintiff's Counsel

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The Settling Parties understand that Willis Class counsel intend to seek an award of their fees and costs from the Court. Any such awards will be determined by the Court unless agreed to by the Settling Parties. Settling Defendants will likely oppose the motion for fees and costs. If Willis Class Counsel obtain an award of fees, Settling Defendants agree to exercise their best efforts to pay any fee award within a reasonable period of time or as required pursuant to Court order. Willis Class Counsel agree that they will not seek any attorneys' fees and/or costs from Settling Defendants for any efforts Willis Class Counsel undertake after the Court's entry of Final Judgment approving the Settlement, except with respect to the following: (a) any reasonable and appropriate efforts by Willis Class Counsel to enforce the terms of this Stipulation against Settling Defendants in the event Settling Defendants fail to comply with a provision of this Stipulation; (b) any reasonable and appropriate efforts by Willis Class Counsel to defend against any new or additional claims or causes of action asserted by Settling Defendants against the Willis Class in pleadings or motions filed in the Consolidated Actions; (c) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written Court order stating that, pursuant to this provision, Class counsel may seek additional fees for specified efforts from Settling Defendants pursuant to Code of Civil Procedure section 1021.5; (d) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written request by Settling Defendants executed by counsel for all Settling Defendants that Class Counsel participate in future aspects of the Consolidated Actions (e.g., the negotiation of a Physical Solution); or (e) any reasonable and appropriate efforts that Willis Class Counsel render to defend a fee award in their favor in the event the Settling Defendants appeal such a fee award and the Court of Appeal affirms the fee award in the amount of 75 percent or more of the fees awarded by the Superior Court. Willis Class Counsel remain free to seek an award of fees from other parties to the litigation.

E. Retention Of Jurisdiction

The Superior Court of the State of California for Los Angeles County shall retain jurisdiction over the implementation, enforcement, and performance of this Stipulation, and shall have exclusive jurisdiction over any suit, action, proceeding, or dispute arising out of or relating

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to this Stipulation or the applicability of this Stipulation.

F. Choice Of Law

This Stipulation shall be governed and construed by the substantive laws of the State of California.

G. Finality

a. This Stipulation shall be effective on the Effective Date, which shall occur when the Court has entered a Final Judgment approving this Stipulation and one of the following events occurs; (i) if an appeal is taken, the date of final affirmance of the Final Judgment, or if petition for review is granted by California Supreme Court or writ of certiorari is granted by United States Supreme Court, the date of final affirmance of the Final Judgment following review pursuant to such grant; or (ii) the date of final dismissal of any appeal from Final Judgment or the final dismissal of any proceedings on petition to review the Final Judgment; or (iii) if no appeal is filed, the expiration date of the time for filing or noticing of any appeal from the Final Judgment, i.e., sixty (60) days after notice of entry of the Final Judgment.

b. In the event that the Court refuses to approve this Stipulation, or any material part hereof, or if such approval is materially modified or set aside on appeal, or if the Final Judgment is not entered in accordance with this Stipulation, appellate review is sought, and on such review, such Final Judgment is not affirmed as to all material parts, then any of the Settling Parties to the Stipulation have the option to rescind this Stipulation in its entirety. Written notice of the exercise of any such right to rescind shall be made according to the terms of this Paragraph VIII.L below within thirty (30) days of the triggering event.

H. Integrated Agreement

This Stipulation constitutes the entire, complete and integrated agreement among the Settling Parties, and supersedes all prior or contemporaneous undertakings of the Settling Parties in connection herewith. This Stipulation may not be modified or amended except in writing executed by the Settling Parties and approved by the Court. It shall be construed and interpreted to effectuate the intent of the Settling Parties which is to provide, through this Stipulation, for a complete resolution of the relevant claims between the Settling Parties on the terms provided in

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this Stipulation. Notwithstanding the foregoing, the Settling Parties intend and agree that this Stipulation will later be incorporated into a Physical Solution, as defined above, which is consistent with the terms of this Stipulation.

I. Waiver

The waiver by any Settling Party of its rights under any provision of this Stipulation or of any breach of this Stipulation shall not be deemed a waiver of any other provision or subsequent breach of this Stipulation.

J. Intended Beneficiaries

This Stipulation shall be binding upon, and inure to the benefit of, the heirs, successors and assigns of the Settling Plaintiffs and Settling Defendants. Without limiting the generality of the foregoing, this Stipulation shall bind each and every subsequent property owner who acquires property in the Basin from a Willis Class Member as well as persons who subsequently acquire such properties.

K. Interpretation and Construction

The terms of this Stipulation have been arrived at by negotiation and mutual agreement, with consideration of and participation by all Settling Parties and with the advice of counsel. Neither Settling Plaintiffs nor Settling Defendants shall be considered to be the drafter of this Stipulation or any of its provisions for the purpose of any statute, case law, or rule of interpretation or construction that would or might cause any provision to be construed against the drafter of this Stipulation (including but not limited to Civil Code Section 1654). The descriptive headings of any paragraphs or sections of this Stipulation are inserted for convenience only and do not constitute a part of this Stipulation.

L. Notices

Where this Stipulation requires either party to provide notice or any other communication or document to the other, such notice shall be in writing, and such notice, communication, or document shall be provided by personal delivery, facsimile transmission, overnight delivery, or letter sent by United States mail with delivery confirmation. Notice may be provided to the Settling Parties through their counsel of record at the following addresses:

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| | |
|---|---|
| California Water Service Company: | Attn: President<br>California Water Service Company<br>1720 North First Street<br>San Jose, California 95112 |
| with a copy to: | John Tootle<br>California Water Service Company<br>2632 West 237th Street<br>Torrance, California 90505 |
| City of Palmdale: | Attn: City Manager<br>38300 Sierra Highway<br>Palmdale, California 93550 |
| with a copy to: | James Markman<br>Richards, Watson & Gerson<br>355 South Grand Avenue, 40th Floor<br>Los Angeles, California 90071 |
| Littlerock Creek Irrigation District: | Attn: General Manager<br>35141 87th Street East<br>Littlerock, California 93543 |
| with a copy to: | Wayne Lemieux<br>Lemieux & O'Neill<br>2393 Townsgate Rd., Suite 201<br>Westlake Village, California 91361 |
| Los Angeles County Waterworks District No. 40: | Attn: Director<br>260 East Avenue K-8<br>Lancaster, California 93535 |
| with a copy to: | Michael Moore<br>Los Angeles county Counsel Office<br>648 Kenneth Hahn Hall of<br>Administration 500 West Temple Street<br>Los Angeles, California 90012 |
| with a copy to: | Eric L. Garner |

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| | |
|---|---|
| | Best Best & Krieger LLP<br>3750 University Avenue<br>P.O.B 1028<br>Riverside, California 92502 |
| Palmdale Water District: | Attn: General Manager<br>2029 E. Avenue Q<br>Palmdale, California 93550 |
| with a copy to: | Thomas Bunn III<br>Lagerlof, Senecal, Gosney & Kruse, LLP<br>301 North Lake Avenue, 10th floor<br>Pasadena, California 91101-4108 |
| Palm Ranch Irrigation District: | Attn: General Manger<br>4871 West Avenue M. (Colombia Way)<br>Quartz Hill, California 93536 |
| with copy to: | Wayne Lemieux<br>Lemieux & O'Neill<br>2393 Townsgate Rd., Suite 201<br>Westlake Village, California 91361 |
| Quartz Hill Water District: | Attn: General Manager<br>42141 N. 50th Street West<br>Quartz Hill, California 93536 |
| with copy to: | Bradley Weeks<br>Charlton Weeks LLP<br>107 West Avenue M-14, Suite A<br>Palmdale, California 93551 |
| Phelan Pinon Hills Community Services District: | Attn: General Manager<br>4037 Phelan Road, Suite C-1<br>Phelan, California 92371 |
| with copy to: | Francis Logan<br>Law Office of Susan Trager<br>19712 MacArthur Blvd. #120<br>Irvine, California 92612 |
| Rosamond Community Services District: | Attn: General Manager |

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RIVERSIDE, CA 92502

| | |
|---|---|
| | 3179 35th Street W<br>Rosamond California 93560 |
| with a copy to: | Eric L. Garner<br>Best Best & Krieger LLP<br>3750 University Avenue<br>P.O.Box 1028<br>Riverside, California 92502 |
| Willis Class: | Rebecca Lee Willis |
| With a copy to: | Ralph Kalfayan<br>Krause Kalfayan Benink & Slavens LLP<br>625 Broadway, Ste. 635<br>San Diego, CA 92101 |

or to such other address as any Settling Party shall, from time to time, specify in the manner provided herein.

M. No Admissions

Neither this Stipulation, nor any act performed or document executed pursuant to or in furtherance of this Stipulation is or may be deemed to be or may be used as an admission of, or evidence of, (i) the validity of any claim or defense; or (ii) the appropriateness or inappropriateness of any Willis Class Member or other representational capacity, whether contemporaneously with this Stipulation or at any time in the future.

N. Execution

This Stipulation may be executed in counterparts by Settling Plaintiffs and Settling Defendants, and a facsimile signature shall be deemed an original signature for purposes of executing this Stipulation. Each of the undersigned persons represents that he or she is fully authorized to enter into the terms and conditions of and to execute this Stipulation by the party for which he or she has signed the Stipulation.

IN WITNESS HEREOF, the undersigned being duly authorized, have executed this Stipulation on the dates shown below.

Rebecca Lee Willis

Approved as to form by: Ralph Kalfayan



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RIVERSIDE, CA 92502

By: Rebecca Lee Willis

By: Keene Kaffaga

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: _____

By: _____

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

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RIVERSIDE, CA 92502

77381

By: _____

California Water Service

By: _____

City of Palmdale

By: James J. Markman

Littlerock Creek Irrigation District

By: _____

Los Angeles County Waterworks District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: James D. Markman

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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RIVERSIDE, CA 92502

By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: BJ Bones

Los Angeles County Waterworks District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: _____

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By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

By: Dennis LaMoreaux

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: Thomas S. Bunn III

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77381

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by; Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

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By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

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Rosamond Community Services Districts

By: _____

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By: _____

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By: _____

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Phelan Pinon Hills Community Services District

By: _____

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By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: Nelli A. Kostopoulos

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

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Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: Nellie D. Kostopoulos

Approved as to form by: Wayne Lemieux

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Superior Court of the State of California

County of Los Angeles

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| ANTELOPE VALLEY GROUNDWATER CASES<br><br>This Pleading Relates to Included Action:<br>REBECCA LEE WILLIS, on behalf of herself and all others similarly situated,<br><br>Plaintiff,<br><br>v.<br><br>LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF LOS ANGELES; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICES DISTRICT; and DOES 1 through 1,000;<br><br>Defendants. | JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408<br><br>Case No. BC 364553<br><br>**WILLIS CLASS STIPULATION OF SETTLEMENT** |

This Stipulation of Settlement (the "Stipulation" or "Agreement") is entered into this 13th day of July 2010 by and between California Water Service Company, City of Palmdale, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 ("District 40"), Palmdale Water District, Palm Ranch Irrigation District, Phelan Pinon Hills Community Services District, Quartz Hill Water District, and Rosamond Community Services District, Desert Lake Community Services District and North Edwards Water District (collectively, "Settling Defendants"), on the one hand, and Rebecca Lee Willis and the Willis Class (as more fully defined below), which consists of certain persons who own property(ies) that overly the Antelope Valley Groundwater Basin (the "Basin") on which they do not and have not pumped groundwater, on the other hand. Settling Defendants, Rebecca Lee Willis, and the Willis Class are collectively referred to as the "Settling Parties," or individually a "Settling Party." This Stipulation and the Exhibits hereto set forth the terms of a settlement (the "Settlement") between and among the Settling Parties compromising and dismissing the claims and defenses they have asserted in the above-captioned action. The Settlement is subject to approval by the Superior Court of California for Los Angeles County; in the event such approval is denied, cannot be obtained, or is reversed on appeal, this Stipulation shall have no further force or effect, and the Settling Parties shall be returned to their respective positions in the litigation prior to execution of this Stipulation.

I. THE SETTLING PARTIES

A. The Settling Plaintiffs are Rebecca Lee Willis and the members of the Willis Class, as defined in paragraph II, D below.

B. The Settling Defendants are as follows:

1. California Water Service Company is a California corporation which extracts groundwater from the Basin to serve customers within the Basin.

2. The City of Palmdale is a municipal corporation in the County of Los Angeles which receives water from the Basin.

3. Littlerock Creek Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

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4. Los Angeles County Waterworks District No. 40 ("District 40") is a public agency governed by the Los Angeles County Board of Supervisors. District 40 has been lawfully organized to perform various functions, including producing water from the Basin, which it provides to more than 65,000 residential and commercial customers in the Basin.

5. Palmdale Water District is an irrigation district organized and operating under Division 11 of the California Water Code, which produces groundwater from the Basin to serve customers within the Basin.

6. Palm Ranch Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

7. Rosamond Community Services District is a public agency which produces water from the Basin which it provides to customers within the Basin.

8. Quartz Hill Water District is a county water district organized and operating under Division 12 of the California Water Code. It produces water from the Basin.

9. Phelan Pinon Hills Community Services District is a public water supplier which produces water from the Basin.

10. Desert Lake Community Services District is a public agency which produces groundwater from the Basin.

11. North Edwards Water district is a public agency which produces groundwater from the Basin.

II. RECITALS

A. On or about November 29, 2004, District 40 commenced a civil action against Overlying Owners (more specifically defined in III. M) in the Basin, which is now pending in the Superior Court for Los Angeles County, seeking, inter alia, an adjudication of their respective rights to produce groundwater from the Basin. On or about July 11, 2005, that case was coordinated with several quiet title actions that had been brought by Basin landowners, which also sought a declaration of the parties' rights to produce and use the Basin's groundwater. Antelope Valley Groundwater Cases, No. 1-05-CV049053 (JCCP 4408) (hereinafter the "Coordinated Actions"). The Coordinated Actions are pending before the Honorable Jack Komar.

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B. On or about October 10, 2006, the Court held an initial phase of trial with respect to the boundaries of the Basin. The Court issued an Order on November 3, 2006, defining the Basin for purposes of this litigation.

C. On or about January 11, 2007 Plaintiff, Rebecca Lee Willis ("Willis"), filed a class action complaint in the Superior Court of the State of California for Los Angeles County (No. BC 364553) (the "Willis Action") in which she alleged that certain Public Water Suppliers had wrongfully claimed prescriptive rights to the Basin's groundwater. Willis sought, inter alia, a declaration that the Settling Defendants had not obtained prescriptive rights as to her or Willis Class Members (more specifically defined in III.X). On or about April 10, 2007, the Willis Action was coordinated as part of the Coordinated Actions.

D. By Order dated September 11, 2007 (as amended by Orders dated May 22, 2008 and September 2, 2008), the Court certified Willis as the representative of a Class of certain Overlying Owners (more specifically defined in if III.M. below) pursuant to Section 382 of the California Code of Civil Procedure and Division 7, Chapter 6 of the Rules of Court.

E. In early January 2009, Notice of the Pendency of the Willis Action was sent by first class mail to all Willis Class Members (more specifically defined in III.X below) who could be identified with reasonable effort and a summary notice was published. The deadline for putative Willis Class Members to exclude themselves (as extended) expired on August 30, 2009. The Court has made various orders allowing certain parties to rejoin the Willis Class.

F. The Settling Parties have actively discussed potential settlement for much of this year. On or about September 2, 2009, the Settling Parties engaged in mediation before the Honorable Ronald Robie during the course of which counsel for most of the parties reached an agreement in principle to settle the Willis Action, subject to the negotiation of a final settlement agreement, client approvals, and approval by the Court.

G. On or about February 19, 2010, the Court entered an Order Transferring and Consolidating Actions for All Purposes (hereinafter the "Consolidated Actions").

H. Over the course of the last three years, the Settling Plaintiffs' counsel have conducted a thorough investigation of the facts and law relating to the matters at issue in the

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Consolidated Actions and have evaluated the merits of all Settling Parties' contentions and the impact this Settlement will have on the Willis Class Members. After evaluating the foregoing, the Settling Plaintiffs and counsel are satisfied that the terms and conditions of this Stipulation are fair, reasonable, and adequate, and that the Settlement is in the best interest of the Willis Class Members.

I. The Settling Defendants contend that they have prescriptive rights to substantially more than 15% of the Basin's Native Safe Yield. The Settling Plaintiffs contend that the Settling Defendants have no such prescriptive rights as to them. This Settlement reflects a compromise between the Settling Parties and shall not (1) be construed as an admission or concession by any Settling Party of the truth of any allegation or the validity of any claim or defense asserted in any of the pleadings, (2) be construed to prejudice the rights, claims, or defenses of any persons who are not Settling Parties, or (3) be construed to prejudice the rights, claims, or defenses (whether asserted or potential) of any Settling Party vis-à-vis any non-settling party.

J. The United States owns property within the Basin as to which it claims a Federal Reserved Right to produce groundwater.

III. DEFINITIONS

The following terms used in this Stipulation shall have the meanings set forth below:

A. "Assessments" means any monetary or other levy or charge imposed as part of a Physical Solution.

B. "Basin" means the Antelope Valley Groundwater Basin as defined in the Court's Order of November 3, 2006.

C. "Consolidated Actions" means all actions that have been or subsequently were coordinated as part of Judicial Council Coordination Proceeding No. 4408 and all actions that have been or subsequently were consolidated pursuant to the Court's Order from February 19, 2010.

D. "Correlative Rights" means the principle of California law, articulated in Katz v. Walkinshaw (1903) 141 Cal. 116 and subsequent cases, that Overlying Owners may make reasonable and beneficial use of the water in a Basin and that, if the supply of water is insufficient

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for all reasonable and beneficial needs, each Overlying Owner is entitled to a fair and just proportion of the water available to the Overlying Owners.

E. "Court" means the Honorable Jack Komar, sitting by designation as a Judge of the Superior Court of Los Angeles County or such other Judge as may be designated by the Judicial Conference to hear JCCP No. 4408.

F. "Effective Date" means the date on which the Court's Judgment granting final approval to the Settlement becomes final and not subject to further appeal.

G. "Federal Reserved Right" is the principle originally articulated in Winters v. United States (1908) 207 U.S. 564 and more recently in *Cappaert v. United States* (1976) 426 U.S. 128, which holds that when the Federal Government reserves land from the public domain, it impliedly reserves sufficient water to serve the purposes for which the lands were reserved, and the quantity of reserved water is limited to the amount necessary to fulfill the purposes of the reserved land. The United States contends that the Federal Reserved Right entitles the United States to a prior and paramount right to a portion of the Native Safe Yield.

H. "Federally Adjusted Native Safe Yield" for any given year means the Basin's Native Safe Yield less the actual annual production of the United States' during the prior year pursuant to its Federal Reserved Right.

I. "Final Judgment" means a final judgment to be entered by the Court in the above matter, which approves the terms and provisions of this Stipulation, and is substantially in the form attached hereto as Exhibit A.

J. "Imported Water" means water that enters the Basin and that originates outside the Basin that is not part of the Basin's Native Safe Yield, and that, absent human intervention, would not recharge or be used in the Basin. Imported Water does not include water purchased by the Watermaster with Replacement Assessments or bottled water.

K. "Native Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions, generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin, results in no long-term depletion of

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Basin groundwater storage. Pumping of the Settling Parties' share of Native Safe Yield is not subject to any Replacement Assessment.

L. "Overlying Right" means the appurtenant right of an Overlying Owner to use groundwater from the Native Safe Yield for overlying reasonable and beneficial use.

M. "Overlying Owners" means owners of land overlying the Basin who hold an Overlying Right.

N. "Physical Solution" means a mechanism that comprehensively resolves the competing claims to the Basin's water and provides for the management of the Basin. The Settling Parties anticipate that this Settlement will later be incorporated into a Physical Solution.

O. "Preliminary Approval Order" means the Court's Order granting preliminary approval to the Settlement set forth herein, directing the manner in which notice of the Settlement shall be provided to the Willis Class, and scheduling a final Hearing for the Court to consider whether to approve the Settlement. The Settling Parties will submit a proposed Preliminary Approval Order in the form appended as Exhibit B hereto.

P. "Recycled Water" means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource..

Q. "Replacement Assessment" means the charge imposed on any Settling Party by the Watermaster for producing more water than it is entitled to produce from the Basin under the terms of this Settlement or pursuant to such further orders as the Court may enter in the Coordinated Actions.

R. "Replacement Water" means water purchased by the Watermaster to offset production in excess of a Settling Party's share of Total Safe Yield.

S. "Return Flows" means the amount of water that is put to reasonable and beneficial agricultural, municipal or other use and thereafter returns to the Basin and is part of the Basin's Total Safe Yield.

T. "Settlement" means this Stipulation, including the Exhibits appended hereto.

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U. "Total Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin and Return Flows derived from Imported Water, results in no long-term depletion of Basin groundwater storage.

V. "Transition Period" means the period of time provided for in the Physical Solution during which the parties' right to produce water from the Native Safe Yield free from Replacement Assessment will decrease to amounts that total no more than that party's share of Native Safe Yield.

W. "Watermaster" means the person or entity appointed by the Court to monitor and manage the Basin's groundwater, subject to oversight by the Court.

X. "Willis Class" or "Willis Class Members" means the Willis Class as defined in the Court's Order of September 11, 2007, as amended by the Court's Orders of May 22, 2008, and September 2, 2008, but shall exclude all persons who timely excluded themselves from the Willis Class and have not rejoined the Willis Class. The Willis Class consists of the following:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as `improved' by the Los Angeles County or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties."

## IV. SETTLEMENT TERMS

In consideration of the covenants and agreements set forth herein, and of the releases and dismissals described below, the Settling Parties agree to settle and compromise the claims that have been asserted or that could have been asserted between and among the Willis Class and the

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Settling Defendants, subject to Court approval, on the following terms and conditions:

A. Native Safe Yield.

Settling Defendants and the United States contend that the best estimate of the Basin's Native Safe Yield is 82,300 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest the Native Safe Yield proposed by the Settling Defendants as long as it is at least 82,300 acre-feet per year. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Native Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

B. Total Safe Yield.

The Settling Defendants contend that the best estimate of the Basin's Total Safe Yield is 110,500 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest that estimate. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Total Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

C. Federal Reserved Right.

The United States contends that it is entitled to a Federal Reserved Right. The Settling Parties agree that the Federal Government has a Federal Reserved Right to use a portion of the Native Safe Yield. The Settling Parties agree that the Court will decide the amount of the Federal Reserved Right and they agree to be bound by the Court's determination.

D. Allocation Of Federally Adjusted Native Safe Yield.

The Settling Parties agree to be bound by the Court's determination of the amounts of the Basin's Native Safe Yield and the United States' Federal Reserved Right. The Basin's Federally Adjusted Native Safe Yield shall be the Basin's Native Safe Yield less the prior year's production of water by the United States (not to exceed the Federal Reserved Right). The Settling Parties agree that the Settling Defendants and the Willis Class Members each have rights to produce groundwater from the Basin's Federally Adjusted Native Safe Yield.

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1. Settling Defendants' Water Rights

Settling Defendants have asserted in the Coordinated Actions that they have obtained prescriptive rights to the Basin's Native Safe Yield. This Stipulation shall neither be construed to recognize prescriptive rights nor to limit the Settling Defendants' prescriptive claims vis-a-vis the Basin or any non-settling parties, but rather as an agreement to fairly allocate the Settling Parties' respective rights to use the Basin's water. The Settling Parties agree that the Settling Defendants collectively have the right to produce up to 15% of the Basin's Federally Adjusted Native Safe Yield free of any Replacement Assessment. The Willis Class will not take any positions or enter into any agreements that are inconsistent with the exercise of the Settling Defendants' rights.

2. Willis Class Members' Pumping Rights

The Settling Parties agree that the Willis Class Members have an Overlying Right to a correlative share of 85% of the Federally Adjusted Native Safe Yield for reasonable and beneficial uses on their overlying land free of any Replacement Assessment. The Settling Defendants will not take any positions or enter into any agreements that are inconsistent with the exercise of the Willis Class Members' Overlying Right to produce and use their correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield.

a. Safe Harbor.

The Willis Class Members acknowledge that the Settling Defendants may at trial prove prescriptive rights against all groundwater pumping in the Basin during a prior prescriptive period. If the Settling Defendants do prove prescriptive rights, Settling Defendants shall not exercise their prescriptive rights to diminish the Willis Class Members' Overlying Right below a correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield. If the Settling Defendants fail to prove any prescriptive rights, this Agreement shall not diminish at all the rights of Willis Class Members to make reasonable and beneficial use of a correlative share of the Basin's Federally Adjusted Native Safe Yield. In no event shall this Agreement require the Willis Class Members to give to the Settling Defendants more than 15% of any rights to use the Basin's groundwater that they may obtain by way of settlement or judgment. If there is a subsequent Court decision whereby the Court determines that the Willis Class Members do not

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have Overlying Rights, this Agreement shall not require Settling Defendants to give the Willis Class Members any right to pump from the Native Safe Yield.

3. Correlative Rights Of Overlying Landowners

The Willis Class Members recognize that other Overlying Owners may have the right to pump correlatively with them 85% of the Federally Adjusted Native Safe Yield of the Basin for reasonable and beneficial uses on their overlying land.

4. Return Flows From Imported Water

a. The Settling Parties acknowledge and agree that they all have the right to recapture Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin, consistent with California law. The Settling Parties will not be subject to any Replacement Assessment for their production of an amount equal to the Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin.

b. Settling Defendants believe that the best estimates of Return Flows from Imported Water are (a) 25% of the water used for agricultural purposes and (b) 28% of the water used for municipal and industrial purposes. Settling Defendants further believe that the best estimate of total annual Return Flows from Imported Water is 28,200 acre-feet of which 25,100 acre-feet is from municipal and industrial use and 3,100 acre-feet is from agricultural use. The Willis Class agrees not to contest those estimates, and all Settling Parties agree to be bound by any findings that may later be made by the Court with respect thereto.

V. MANAGEMENT OF THE BASIN

A. General

The Settling Parties agree that the Basin has limited water resources and that they should use their best efforts to conserve and maximize reasonable and beneficial use. The Settling Parties further agree that there is a need to create a groundwater management plan to ensure that pumping from the Basin does not exceed the Basin's Total Safe Yield and that the Court should appoint a Watermaster to oversee the management of the Basin's water resources.

B. Physical Solution

The Settling Parties expect and intend that this Stipulation will become part of a Physical

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Solution entered by the Court to manage the Basin and that the Court will retain jurisdiction in the Coordinated Actions. The Settling Parties agree to be part of such a Physical Solution to the extent it is consistent with the terms of this Stipulation and to be subject to Court-administered rules and regulations consistent with California and Federal law and the terms of this Stipulation. The Settling Parties agree that the Physical Solution may require installation of a meter on any groundwater pump by a Willis Class Member before a Willis Class Member may produce groundwater. The responsibility for the cost of such meters will be determined by the Court.

C. Transition Period.

The Settling Parties agree that net groundwater production from the Basin needs to be reduced over a period of time from current levels to no more than the Basin's Total Safe Yield. This can be accomplished by reducing pumping and/or purchasing Replacement Water. The Settling Parties agree that the Transition Period should begin at the date of entry of Final Judgment in the Coordinated Actions and should last seven years. During the first two years of the Transition Period no effort will be made to curtail groundwater pumping and no Replacement Assessments will be made. By the end of the seventh year of the Transition Period, groundwater pumping from the Basin without Replacement Assessment for Replacement Water will not exceed the Native Safe Yield.

D. Replacement Water.

The Settling Parties recognize the right of any Settling Party to produce groundwater from the Basin above their share of the Native Safe Yield, subject to the Physical Solution and to any Replacement Assessment. The Settling Parties agree to provide or purchase Imported Water for all groundwater pumping that exceeds a Settling Party's share of the Federally Adjusted Native Safe Yield. The Settling Parties agree that any Settling Party who produces more than its annual share of the Federally Adjusted Native Safe Yield in any year will be responsible to provide Replacement Water or pay a Replacement Assessment to the Watermaster so that the Watermaster can purchase Imported Water to recharge the Basin.

E. Water Storage

The Settling Parties agree that water storage in the Basin offers significant benefits and

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should be encouraged. The Settling Parties further recognize that there is a limit on the Basin's available storage space and that the storage of water for uses within the Basin should have priority over storage for use outside the Basin. Subject to those general principles, the Settling Parties agree that water storage should be permitted and encouraged and agree to support appropriate provisions in the Physical Solution.

F. Recycled Water

The Settling Parties agree that it is important to encourage the treatment and use of Recycled Water. The Willis Class agrees not to challenge or otherwise contest Settling Defendants' claims to Return Flows from Recycled Water that was reclaimed by the Sanitation Districts of Los Angeles County.

VI. PROCEDURES FOR CLASS NOTICE AND HEARING ON MOTIONS FOR PRELIMINARY AND FINAL APPROVAL OF STIPULATION

A. Preliminary Approval Motion and Settlement Notice.

Settling Plaintiffs shall file a motion for preliminary approval ("Preliminary Approval Motion") of the terms of the Settlement as soon as practicable following execution of this Stipulation by all Settling Parties. The Preliminary Approval Motion will seek entry of an Order Preliminarily Approving Class Action Settlement. The Preliminary Approval Motion shall include a proposed form of notice describing this Stipulation (the "Settlement Notice") to be disseminated to the Willis Class as well as a description of the procedures to be used in disseminating the Settlement Notice. The Settlement Notice shall be disseminated to all Willis Class Members by or under the supervision of counsel for District 40, with the expenses to be borne by District 40. The Settling Parties will attempt to agree upon the language for the Settlement Notice, but agree to be bound by the Court's determination in the event they have any disputes or disagreements in that regard. The Settling Parties agree to use their best efforts to have the Preliminary Approval Motion heard as promptly as is practical.

B. Final Approval Hearing.

The Settlement Notice will advise Willis Class Members of the date and time set for a Hearing on the Settling Plaintiffs' Motion for Final Approval of the Stipulation, including

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advising them of their rights to submit statements in support of or opposition to the Stipulation. The Final Approval Motion shall request that this Court find that the Stipulation and Proposed Final Judgment are fair, reasonable, and adequate to the Willis Class and shall seek entry of a Final Judgment substantially in the form attached hereto as Exhibit A.

VII. RELEASES AND DISMISSALS

A. Release By Settling Plaintiffs

1. In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Section VIII, Paragraph G of this Stipulation, and in consideration for the settlement consideration set forth above, and for other valuable consideration, the Settling Plaintiffs shall completely release, acquit and forever discharge the Settling Defendants from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Plaintiffs, or each of them, ever had, now has, or hereafter can, shall, or may have on account of or in any way arising out of, any and all known or unknown, foreseen or unforeseen, suspected or unsuspected injuries, damages, and the consequences thereof in any way arising out of or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Plaintiff may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Plaintiff hereby expressly waives and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts. As provided in the Release set forth above, the Settling Plaintiffs, including any of Settling Plaintiffs' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

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2. The Release set forth in Paragraph VII.A, above, does not include claims by any of the Settling Plaintiffs other than the claims set forth therein. In particular, the Settling Parties recognize that many persons own more than one parcel of land within the Basin. The foregoing Release only binds Willis Class Members and only with respect to those properties within the Basin on which they have not pumped water.

B. Release By Settling Defendants

In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Paragraph VIII.G of this Stipulation, and in consideration of the settlement consideration set forth above, and for other valuable consideration, the Settling Defendants completely release, acquit and forever discharge Settling Plaintiffs and the Willis Class Members from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Defendants, or any of them, ever had, now has, or hereafter can, shall, or may have arising from or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Defendant may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Defendant hereby waives any right to relief from the provisions of this Stipulation in such event, and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, and without regard to the subsequent discovery or existence of such different or additional facts.

1. As provided in the Release set forth in Paragraph VII.B, above, the Settling Defendants, including any of Settling Defendants' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

VIII. MISCELLANEOUS PROVISIONS

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A. No Concession By Any Settling Party

It is understood and agreed that this Stipulation represents the compromise of disputed positions with respect to the relevant facts and law. This Stipulation shall not be deemed a concession by any Settling Party as to any fact or the validity or invalidity of any claim or defense.

B. Best Efforts and Mutual Cooperation.

Settling Plaintiffs and Settling Defendants shall use their best efforts to effectuate this Stipulation and its purpose, and secure the prompt, complete, and final dismissal with prejudice of the Willis Action. The Settling Parties agree to take any and all reasonable steps that may be necessary in that regard, as long as those steps do not require any material deviations from the terms of this Stipulation or impose material new obligations beyond those contemplated by this Stipulation.

The Settling Parties recognize that not all parties to the Coordinated Actions have entered into this Stipulation and that a trial may be necessary as against non-settling parties. The Settling Parties agree to cooperate and coordinate their efforts in any such trial or hearing so as to obtain entry of judgment consistent with the terms of this Stipulation; this provision, however, will not require Willis Class counsel to participate in any such trial or render any efforts absent written agreement of Settling Defendants to compensate them for such efforts. Nor shall this Stipulation preclude Settling Plaintiffs from participating in any further proceedings that may affect their rights.

C. Adjustments Of Settling Parties' Estimates

In the event that the Court enters findings of fact that vary from the estimated amounts that the Settling Parties have agreed to for purposes of this Stipulation (including the length of the Transition Period described in Paragraph V.C.), the Court's findings will be determinative and will supplant the amounts set forth in this Stipulation. For example, if the Court should determine following trial that the Basin's Total Safe Yield is, in fact, 120,000 acre-feet per year (or some other amount), the Court's findings will control.

D. Fees And Costs Of Settling Plaintiff's Counsel

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RIVERSIDE, CA 92502

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RIVERSIDE, CA 92502

The Settling Parties understand that Willis Class counsel intend to seek an award of their fees and costs from the Court. Any such awards will be determined by the Court unless agreed to by the Settling Parties. Settling Defendants will likely oppose the motion for fees and costs. If Willis Class Counsel obtain an award of fees, Settling Defendants agree to exercise their best efforts to pay any fee award within a reasonable period of time or as required pursuant to Court order. Willis Class Counsel agree that they will not seek any attorneys' fees and/or costs from Settling Defendants for any efforts Willis Class Counsel undertake after the Court's entry of Final Judgment approving the Settlement, except with respect to the following: (a) any reasonable and appropriate efforts by Willis Class Counsel to enforce the terms of this Stipulation against Settling Defendants in the event Settling Defendants fail to comply with a provision of this Stipulation; (b) any reasonable and appropriate efforts by Willis Class Counsel to defend against any new or additional claims or causes of action asserted by Settling Defendants against the Willis Class in pleadings or motions filed in the Consolidated Actions; (c) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written Court order stating that, pursuant to this provision, Class counsel may seek additional fees for specified efforts from Settling Defendants pursuant to Code of Civil Procedure section 1021.5; (d) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written request by Settling Defendants executed by counsel for all Settling Defendants that Class Counsel participate in future aspects of the Consolidated Actions (e.g., the negotiation of a Physical Solution); or (e) any reasonable and appropriate efforts that Willis Class Counsel render to defend a fee award in their favor in the event the Settling Defendants appeal such a fee award and the Court of Appeal affirms the fee award in the amount of 75 percent or more of the fees awarded by the Superior Court. Willis Class Counsel remain free to seek an award of fees from other parties to the litigation.

E. Retention Of Jurisdiction

The Superior Court of the State of California for Los Angeles County shall retain jurisdiction over the implementation, enforcement, and performance of this Stipulation, and shall have exclusive jurisdiction over any suit, action, proceeding, or dispute arising out of or relating

to this Stipulation or the applicability of this Stipulation.

F. Choice Of Law

This Stipulation shall be governed and construed by the substantive laws of the State of California.

G. Finality

a. This Stipulation shall be effective on the Effective Date, which shall occur when the Court has entered a Final Judgment approving this Stipulation and one of the following events occurs; (i) if an appeal is taken, the date of final affirmance of the Final Judgment, or if petition for review is granted by California Supreme Court or writ of certiorari is granted by United States Supreme Court, the date of final affirmance of the Final Judgment following review pursuant to such grant; or (ii) the date of final dismissal of any appeal from Final Judgment or the final dismissal of any proceedings on petition to review the Final Judgment; or (iii) if no appeal is filed, the expiration date of the time for filing or noticing of any appeal from the Final Judgment, i.e., sixty (60) days after notice of entry of the Final Judgment.

b. In the event that the Court refuses to approve this Stipulation, or any material part hereof, or if such approval is materially modified or set aside on appeal, or if the Final Judgment is not entered in accordance with this Stipulation, appellate review is sought, and on such review, such Final Judgment is not affirmed as to all material parts, then any of the Settling Parties to the Stipulation have the option to rescind this Stipulation in its entirety. Written notice of the exercise of any such right to rescind shall be made according to the terms of this Paragraph VIII.L below within thirty (30) days of the triggering event.

H. Integrated Agreement

This Stipulation constitutes the entire, complete and integrated agreement among the Settling Parties, and supersedes all prior or contemporaneous undertakings of the Settling Parties in connection herewith. This Stipulation may not be modified or amended except in writing executed by the Settling Parties and approved by the Court. It shall be construed and interpreted to effectuate the intent of the Settling Parties which is to provide, through this Stipulation, for a complete resolution of the relevant claims between the Settling Parties on the terms provided in

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this Stipulation. Notwithstanding the foregoing, the Settling Parties intend and agree that this Stipulation will later be incorporated into a Physical Solution, as defined above, which is consistent with the terms of this Stipulation.

I. Waiver

The waiver by any Settling Party of its rights under any provision of this Stipulation or of any breach of this Stipulation shall not be deemed a waiver of any other provision or subsequent breach of this Stipulation.

J. Intended Beneficiaries

This Stipulation shall be binding upon, and inure to the benefit of, the heirs, successors and assigns of the Settling Plaintiffs and Settling Defendants. Without limiting the generality of the foregoing, this Stipulation shall bind each and every subsequent property owner who acquires property in the Basin from a Willis Class Member as well as persons who subsequently acquire such properties.

K. Interpretation and Construction

The terms of this Stipulation have been arrived at by negotiation and mutual agreement, with consideration of and participation by all Settling Parties and with the advice of counsel. Neither Settling Plaintiffs nor Settling Defendants shall be considered to be the drafter of this Stipulation or any of its provisions for the purpose of any statute, case law, or rule of interpretation or construction that would or might cause any provision to be construed against the drafter of this Stipulation (including but not limited to Civil Code Section 1654). The descriptive headings of any paragraphs or sections of this Stipulation are inserted for convenience only and do not constitute a part of this Stipulation.

L. Notices

Where this Stipulation requires either party to provide notice or any other communication or document to the other, such notice shall be in writing, and such notice, communication, or document shall be provided by personal delivery, facsimile transmission, overnight delivery, or letter sent by United States mail with delivery confirmation. Notice may be provided to the Settling Parties through their counsel of record at the following addresses:

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RIVERSIDE, CA 92502

| | |
|---|---|
| California Water Service Company: | Attn: President<br>California Water Service Company<br>1720 North First Street<br>San Jose, California 95112 |
| with a copy to: | John Tootle<br>California Water Service Company<br>2632 West 237th Street<br>Torrance, California 90505 |
| City of Palmdale: | Attn: City Manager<br>38300 Sierra Highway<br>Palmdale, California 93550 |
| with a copy to: | James Markman<br>Richards, Watson & Gerson<br>355 South Grand Avenue, 40th Floor<br>Los Angeles, California 90071 |
| Littlerock Creek Irrigation District: | Attn: General Manager<br>35141 87th Street East<br>Littlerock, California 93543 |
| with a copy to: | Wayne Lemieux<br>Lemieux & O'Neill<br>2393 Townsgate Rd., Suite 201<br>Westlake Village, California 91361 |
| Los Angeles County Waterworks District No. 40: | Attn: Director<br>260 East Avenue K-8<br>Lancaster, California 93535 |
| with a copy to: | Michael Moore<br>Los Angeles county Counsel Office<br>648 Kenneth Hahn Hall of<br>Administration 500 West Temple Street<br>Los Angeles, California 90012 |
| with a copy to: | Eric L. Garner |

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P.O. BOX 1028
RIVERSIDE, CA 92502

| | |
|---|---|
| | Best Best & Krieger LLP<br>3750 University Avenue<br>P.O.B 1028<br>Riverside, California 92502 |
| Palmdale Water District: | Attn: General Manager<br>2029 E. Avenue Q<br>Palmdale, California 93550 |
| with a copy to: | Thomas Bunn III<br>Lagerlof, Senecal, Gosney & Kruse, LLP<br>301 North Lake Avenue, 10th floor<br>Pasadena, California 91101-4108 |
| Palm Ranch Irrigation District: | Attn: General Manger<br>4871 West Avenue M. (Colombia Way)<br>Quartz Hill, California 93536 |
| with copy to: | Wayne Lemieux<br>Lemieux & O'Neill<br>2393 Townsgate Rd., Suite 201<br>Westlake Village, California 91361 |
| Quartz Hill Water District: | Attn: General Manager<br>42141 N. 50th Street West<br>Quartz Hill, California 93536 |
| with copy to: | Bradley Weeks<br>Charlton Weeks LLP<br>107 West Avenue M-14, Suite A<br>Palmdale, California 93551 |
| Phelan Pinon Hills Community Services District: | Attn: General Manager<br>4037 Phelan Road, Suite C-1<br>Phelan, California 92371 |
| with copy to: | Francis Logan<br>Law Office of Susan Trager<br>19712 MacArthur Blvd. #120<br>Irvine, California 92612 |
| Rosamond Community Services District: | Attn: General Manager |

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RIVERSIDE, CA 92502

| | |
|---|---|
| | 3179 35th Street W<br>Rosamond California 93560 |
| with a copy to: | Eric L. Garner<br>Best Best & Krieger LLP<br>3750 University Avenue<br>P.O.Box 1028<br>Riverside, California 92502 |
| Willis Class: | Rebecca Lee Willis |
| With a copy to: | Ralph Kalfayan<br>Krause Kalfayan Benink & Slavens LLP<br>625 Broadway, Ste. 635<br>San Diego, CA 92101 |

or to such other address as any Settling Party shall, from time to time, specify in the manner provided herein.

M. No Admissions

Neither this Stipulation, nor any act performed or document executed pursuant to or in furtherance of this Stipulation is or may be deemed to be or may be used as an admission of, or evidence of, (i) the validity of any claim or defense; or (ii) the appropriateness or inappropriateness of any Willis Class Member or other representational capacity, whether contemporaneously with this Stipulation or at any time in the future.

N. Execution

This Stipulation may be executed in counterparts by Settling Plaintiffs and Settling Defendants, and a facsimile signature shall be deemed an original signature for purposes of executing this Stipulation. Each of the undersigned persons represents that he or she is fully authorized to enter into the terms and conditions of and to execute this Stipulation by the party for which he or she has signed the Stipulation.

IN WITNESS HEREOF, the undersigned being duly authorized, have executed this Stipulation on the dates shown below.

Rebecca Lee Willis

Approved as to form by: Ralph Kalfayan



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RIVERSIDE, CA 92502

By: Rebecca Lee Willis

By: Rachel Kaffaga

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: _____

By: _____

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE, SUITE 400
P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: _____

Los Angeles County Waterworks District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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BEST BEST & KRIEGER LLP
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P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

By: _____

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: BJ Bones

By: Wayne Lemieux

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

LAW OFFICES OF
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P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: _____

Los Angeles County Waterworks
District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____
DEPUTY

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

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RIVERSIDE, CA 92502

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: Sallie A. Kyriakopoulos

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

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RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: Dallis D. Kostopoulos

Approved as to form by: Wayne Lemieux

By: _____

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RIVERSIDE, CA 92502

# EXHIBIT B

**EXHIBITS B & D: NON-APPEARING PARTIES**

| Name | Answer / Appearance Date | DKT No |
|---|---|---|
| Romo Lake Los Angeles Partnership | 12/8/2005 | |
| Unison Investment, LLC | 1/12/2006 | |
| Landfield, Richard E. | 11/13/2006 | 333 |
| Kaufman, Lilian | 12/20/2006 | 368 |
| Kaufman, Lilian, trustee of Lilian Kaufman Trust | 12/20/2006 | 368 |
| Schwartz, Martin B., trustee of Burroughs Family Trust | 12/21/2006 | 372 |
| Cumming, Ruth A. as Ttee of the Cumming Family Trust | 12/21/2006 | 373 |
| Gabuya, Rodrigo L. | 12/27/2006 | 379 |
| David A, And Dorothy Kagon | 12/27/2006 | 380 |
| Kahlo, Jack D | 12/27/2006 | 382 |
| Gorrindo, Maria B. | 12/27/2006 | 383 |
| Bowers, David L. | 12/28/2006 | 388 |
| Recht, Patricia Anne | 12/28/2006 | 390 |
| Bowers, Ronald E. | 12/28/2006 | 391 |
| Gabrych, Eugene | 12/28/2006 | 392 |
| Gabrych, Marian | 12/28/2006 | 393 |
| Qarmout, Elias | 12/28/2006 | 394 |
| Airtrust Singapore Private | 12/28/2006 | 395 |
| ABC Williams Enterprises, LP | 12/28/2006 | 396 |
| Myers, Marilyn Burgess | 12/28/2006 | 397 |
| Katz, Marianne, trustee of the Katz Trust | 12/29/2006 | 399 |
| Katz, Herbert, trustee of the Katz Trust | 12/29/2006 | 401 |
| Hui, John | 12/29/2006 | 402 |
| United Holdings Corp. | 12/29/2006 | 403 |
| Loving, Robert A. | 12/29/2006 | 404 |
| Riggins, Patricia | 12/29/2006 | 406 |
| Jung, N. Tom | 1/2/2007 | 410 |
| Epsilon Development Co. | 6/25/2007 | |
| Prewoznik, Marilyn J. | 5/22/2007 | 638 |
| Prewoznik, Marilyn J., trustee of Prewoznik Trust | 5/22/2007 | 638 |
| Anaverde LLC | 6/20/2007 | 673 |
| Harris, Steven | 7/9/2007 | 737 |
| Britton Associates LLP | 7/9/2007 | 737 |
| Shokrian, Elias | 7/10/2007 | 741 |
| Bujulian Brothers | 1/8/2008 | 1103 |
| Antelope Valley Country Club | 2/7/2008 | 1173 |
| Cameron Properties | 3/7/2008 | 1218 |
| Gateway Triangle Properties | 9/26/2008 | 2065 |
| Bloom, Melody | 9/13/2008 | 2014 |
| Saloman, Franklin R., trustee Frankie Salomon Trust | 9/23/2008 | 2051 |
| EnXco Development Co | 9/23/2008 | 2054 |
| Eastly, Phillip | 9/24/2008 | 2058 |
| Gillman, Melinda | 9/30/2008 | 2095 |
| Melvin T. & Margaret E. Andrews, trusttees Andrews Trust | 10/3/2008 | 2131 |

| | | |
|---|---|---|
| Max Webb Trust | 10/20/2008 | 2161 |
| John and Dora Buruchin | 10/27/2008 | 2196 |
| Robert D. and Shirley B. Raney | 10/27/2008 | 2196 |
| Three Arklin LLC | 10/29/2008 | 2201 |
| Mountain Brook Ranch LLC | 10/29/2008 | 2202 |
| Shakib, Kamram | 12/2/2008 | 2299 |
| Andrews, Franklin | 6/23/2009 | 2923 |
| Andrews, Treba | 6/23/2009 | 2924 |
| Lebata Inc. | 7/8/2009 | 2965 |
| Murphy, Patty | 7/26/2009 | 3011 |
| Balice, Norman | 7/28/2009 | 3013 |
| Balice, Maria | 7/28/2009 | 3013 |
| Chan, Hawk Nin | 9/9/2009 | 3095 |
| Collicut. Ikuko | 9/9/2009 | 3096 |
| Cabahug, Arlene | 9/17/2009 | 3099 |
| Cernicky, Florence, trustee of Cernicky Trust | 10/27/2009 | 3171 |
| Angelo And Dolores M. Cassara, Trustees Cassara Trust | 10/27/2009 | 3171 |
| Gaskell Suntower, LLC | 7/8/2010 | 3689 |
| Arklin Brother Enterprises | 12/21/2010 | 4183 |
| E.C. Wheeler | 3/7/2011 | 4319 |
| Cal Golf Inc. | 12/10/2012 | 5398 |
| Davis, Robert Glen | 7/10/2014 | 9029 |
| Antelope Valley Progressive Club | 8/13/2014 | 9115 |
| Annette And Bennie E. Moore | 9/3/2014 | 9215 |
| M&M Peach Ranch | 10/3/2014 | 9342 |
| Goodyork Corp | 8/6/2015 | 10295 |
| Lancaster Summit Properties, LTD. | 8/6/2015 | 10295 |
| Hooshpack Dev Inc. | 9/28/2015 | 10677 |
| Renassiance Perinatal Medical Group | 9/28/2015 | 10677 |
| Jones, Robert A. | 9/22/2005 | 1 |
| Godde, Forrest | 9/22/2005 | 1 / 411 |
| Calandri, B.J. | 11/28/2005 | 45 / 411 |
| Calandri, Barbara J. | 12/13/2007 | 1068 |
| Godde, Lawrence | 11/28/2005 | 45 / 411 |
| Kootenai Properties | 11/28/2005 | 45 / 411 |
| Kyle, James | 11/28/2005 | 45 / 411 |
| Kyle, Wanda E. | 11/28/2005 | 45 / 411 |
| Hines Family trust | 3/17/2006 | 174 / 411 |
| Malloy Family Partners | 3/17/2006 | 174 / 411 |
| Santoro, Marygrace H. | 3/17/2006 | 174 / 411 |
| Stathatos, Helen | 3/17/2006 | 174 / 411 |
| Stathatos, Savas | 3/17/2006 | 174 / 411 |
| Groven, Dennis L. | 12/1/2006 | 341 / 411 |
| Groven, Majorie E. | 12/1/2006 | 341 /411 |
| Harter, Scott S. | 12/1/2006 | 341 /411 |
| Harter, Kay B. | 12/1/2006 | 341 /411 |
| Javadi, Habod | 12/1/2006 | 341 /411 |

| | | |
|---|---|---|
| Kindig, Beverly A. | 12/1/2006 | 341 / 411 |
| Kindig, Eugene V. | 12/1/2006 | 341 /411 |
| Kindig, Paul S. | 12/1/2006 | 341 /411 |
| Kindig, Sharon R. | 12/1/2006 | 341 /411 |
| Tobias, Beverly | 1/2/2007 | 411 |
| Simi, Leo | 1/2/2007 | 411 |
| William Barnes & Eldora Barnes Fam Trust | 1/2/2007 | 411 |
| Gorrindo Family Trust | 12/10/2010 | 4069 |
| Cameo Ranching Co. | 1/28/2011 | 4250 |
| Kremen, Dr. Samuel | 2/10/2011 | 4270 |
| Son Rise Farms | 1/18/2012 | 4758 |
| Chavez, Luz | 1/18/2012 | 4758 |
| Zomorodi, Ramin | 1/18/2012 | 4758 |
| Genz Development & Castle Ranch Estate | 1/18/2012 | 4758 |
| Barnes, William | 1/18/2012 | 4758 |
| Barnes, Julie | 1/18/2012 | 4758 |
| Gorrindo, Robert | 1/18/2012 | 4758 |
| Gorrindo, Phillip | 1/18/2012 | 4758 |
| Healy Farms | 1/18/2012 | 4758 |
| Nelson, Michael | 1/18/2012 | 4758 |
| Wilson, Harold | 2/6/2012 | 4814 |
| Ritter, Edgar | 11/28/2005 | 45 |
| Paula Ritter | 11/28/2005 | 45 |
| Paula Ritter, as Trustee of the Ritter Family Trust | 11/28/2005 | 45 |
| Mark Ritter, successor trustee of the Ritter Family Trust | 9/3/2015 | 10388 |

# EXHIBIT C

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

ANTELOPE VALLEY GROUNDWATER CASES

This Judgment Relates to Included Action: RICHARD WOOD, on behalf of himself and all others similarly situated,

Plaintiff,

v.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40, et al.

Defendants.

JUDICIAL COUNCIL

COORDINATION PROCEEDING NO. 4408

Case No. BC 391869

**~~[proposed]~~ JUDGMENT APPROVING SMALL PUMPER CLASS ACTION SETTLEMENTS**

**THE 2013 PARTIAL SETTLEMENT**

By Order dated December 11, 2013, the Court approved the Motion for Final Approval of Settlement for the Small Pumper Class Stipulation of Settlement dated October 17, 2013 (the "2013 Partial Settlement"),[1] by and between City of Lancaster, Palmdale Water District, Phelan Piñon Hills Community Services District, and Rosamond Community Services District, (collectively, "2013 Settling Defendants"), and Richard Wood, on behalf of himself and the Class defined below, in the matter styled *Richard Wood v. Los Angeles County Waterworks District No. 40 et al.*, Los Angeles Superior Court Case Number BC391869 ("Small Pumper Class Action"). Having reviewed and considered the terms and conditions of the 2013 Partial Settlement; having reviewed and heard any timely filed objections to the 2013 Partial Settlement after notice to the class in accordance with the preliminary approval order; and having reviewed and considered the motion of Class Counsel for an award of attorneys' fees and costs and for an award of compensation to Richard Wood, and having reviewed and considered all opposing papers, the Court approved the 2013 Partial Settlement, based in part, upon the pertinent findings below, and as further reflected in the record for the hearings.

**THE 2015 SETTLEMENT**

On March 4, 2015, Class Counsel filed Small Pumper Class Stipulation of Settlement, dated February 24, 2015 (the "2015 Settlement"), to which was attached as and incorporated therein as Exhibit A, the Stipulation for Entry of Judgment and Physical Solution. The 2015 Settlement was entered into between Richard Wood, on behalf of the Small Pumper Class, on the one hand, and California Water Service Company, City of Palmdale, Desert Lake Community Services District, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 Palm Ranch Irrigation District, and Quartz Hill Water District ("2015 Settling Defendants").[2]

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[1] Any capitalized terms in this Judgment that are not defined herein are accorded the definitions set forth in the Settlement Agreements, and exhibits thereto.

[2] The 2013 Settling Defendants and the 2015 Settling Defendants are jointly referred to below as the "Settling Defendants." Richard Wood, the Small Pumper Class Members, and the Settling Defendants are hereinafter referred to as the "Settling Parties."

After reviewed and considered the terms and conditions of the 2015 Settlement and exhibits thereto; having reviewed and heard any timely filed objections to the 2015 Settlement after notice to the class in accordance with the preliminary approval order and having reviewed and considered all opposing papers; the Court conditionally approved it, as further set forth in the Court's Order of August 4, 2015, as well as the hearing transcript of that date. The Court subsequently heard evidence and argument in support of and in opposition to the claims presented by various parties, as the proposed Judgment and Physical Solution. On November 4, 2015, the Court issued its oral tentative decision granting final approval to the 2015 Settlement. The Court's ruling is explained in the resulting Statement of Decision.

In support of this Judgment, which covers all claims contained in the Small Pumper Class Action, all of which are resolved by the 2013 Partial Settlement and the 2015 Settlement, the Court makes the following FINDINGS:

A. The Court has jurisdiction over all parties to the Settlement Agreement including Class members who did not timely opt out of the Settlement.

B. For over 15 years, a number of actions have been pending in the Los Angeles County Superior Court and other California courts seeking an adjudication of various parties' respective rights to the groundwater underlying the Antelope Valley Groundwater Basin (the "Basin").

C. Several of these actions were coordinated by the California Judicial Council, by order dated July 11, 2005, and assigned to the Honorable Jack Komar of the Superior Court for the County of Santa Clara (the "Court").

D. The Court held the first phase of trial in October of 2006 for the purpose of determining the boundaries of the Basin for the purposes of these coordinated actions, and did so by an Order dated November 3, 2006.

E. The Small Pumper Class Action was filed on June 3, 2008 against certain public water entities asserting claims for declaratory relief, quiet title, and various claims related to the alleged taking of water rights. The Small Pumper Class action was subsequently added to the

Coordinated Cases.

F. By order of September 2, 2008, the Court certified the Small Pumper Class, appointed Richard Wood as Class representative, and the Law Offices of Michael D. McLachlan APC and the Law Office of Daniel M. O'Leary as counsel for the Class. By that Order, the Court defined the Class as:

> All private (i.e. non-governmental) persons and entities that own real property within the Basin, as adjudicated, and that have been pumping less than 25 acre-feet per year on their property during any year from 1946 to the present. The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons and entities that are shareholders in a mutual water company.

G. Notice of the pendency of this class action was initially provided to the Class by mail and publication, with a final opt out date of December 4, 2009.

H. On October 25, 2013, the Court issued an order preliminarily approving the 2013 Partial Settlement. Notice of this Settlement was provided in accordance with the Court's order preliminarily approving the settlement and the terms of the Settlement Agreement. Notice was given in an adequate and sufficient manner, and constituted the best practicable notice under the circumstances. Those class members who timely opted out of this Partial Settlement, or in response to the initial class notice in 2009 (and who did not subsequently opt back into the Class) are not bound by the settlements or this Judgment (but may be bound by the final judgment in these coordinated proceedings). On or about January 7, 2014, the Court approved the 2013 Partial Settlement between the Small Pumper Class and the 2013 Settling Defendants.

I. On April 6, 2015, the Court issued an order preliminarily approving the 2015 Settlement. Notice of this Settlement was provided in accordance with the Court's order preliminarily approving the settlement and the terms of the Settlement Agreement. Notice was given in an adequate and sufficient manner, and constituted the best practicable notice under the

circumstances, as set forth in the Declarations of Jennifer M. Keogh and Michael D. McLachlan, both filed June 4, 2015. No class member timely filed an objection to the 2015 Settlement.

J. The 2013 Partial Settlement and the 2015 Settlement are both a product of good faith, arm's length negotiations between the Representative Plaintiff and the Settling Defendants and their counsel, which occurred over a lengthy period of time in this litigation. The 2013 Partial Settlement and the 2015 Settlement, as provided in the Settlement Agreements, are in all respects fair, reasonable, adequate and proper, as between the Settling Parties, and in the best interests of the Class.

K. All members of the Class who did not opt out of the Class shall be subject to all the provisions of the 2013 Partial Settlement, the 2015 Settlement, and this Judgment as entered by the Court (the "Settlement Class" members). The known Small Pumper Class members are listed in Exhibit A, attached hereto.

On the basis of the foregoing findings and the submissions referred to above, IT IS HEREBY ORDERED ADJUDGED AND DECREED:

1. The Settling Parties are released forever as to the Released Claims as provided for in the Settlement Agreement. Any claims or rights not specifically released are retained by the Settling Parties.

2. The Settlement Class members and their heirs, successors, assigns, executors or administrators are permanently barred and enjoined from instituting, commencing, prosecuting, any Released Claim against any of the Released Parties in any forum, other than claims to enforce the terms of the Settlement Agreement. Each member of the Settlement Class has waived and fully, finally and forever settled and released, upon this Judgment becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery of different or additional facts.

3. The Settling Defendants and their heirs, successors, assigns, executors or administrators are permanently barred and enjoined from instituting, commencing, prosecuting,

any Released Claim against any of the Released Parties in any forum, other than claims to enforce the terms of the Settlement Agreement. Each Settling Defendant has waived and fully, finally and forever settled and released, upon this Judgment becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery of different or additional facts.

4. Any prescriptive rights the Settling Defendants may have cannot be exercised to reduce any Overlying Rights the Settlement Class members may have.

5. The Small Pumper Class members are bound by the Judgment and Physical Solution, and their rights and obligations are relative to future groundwater use are set forth therein.

6. The Settling Parties are ordered to timely comply with all other provisions of the 2013 Partial Settlement and the 2015 Settlement.

7. Without affecting the finality of this Judgment, the Court hereby reserves and retains jurisdiction over the 2013 Partial Settlement and the 2015 Settlement, including administration of the Settlement Agreements, as well as any action, proceeding or motion brought to enforce the Settlement Agreements, as well as the ultimate determination of the Settling Parties' water rights. The Settling Parties are subject to the jurisdiction of this Court for any suit, action, proceeding or dispute arising out of or relating to this Judgment or the Settlement Agreement.

8. The Court will address the award of attorneys' fees, costs and expenses, the incentive award to Richard Wood, as well as the future scope of Class Counsel's duties to the Small Pumper Class, in a separate order after entry of judgment and the filing of the appropriate noticed motion(s).

Dated: December 23, 2015

Judge of the Superior Court

**Exhibit A** to Judgment Approving Small Pumper Class Action Settlements:

List of Known Small Pumper Class Members for Final Judgment

**LIST OF KNOWN SMALL PUMPER CLASS MEMBERS FOR FINAL JUDGMENT**

| name_addr_1 | name_addr_2 | name_addr_3 | name_addr_4 | city | state | zipcode |
|---|---|---|---|---|---|---|
| 1100 EDGEWATER INC | 1281 WESTWOOD BLVD STE 210 | | | LOS ANGELES | CA | 90024-4814 |
| 20TH STREET PROPERTIES | 43301 DIVISION ST | | | LANCASTER | CA | 93535-4647 |
| 3M PROPERTY INVESTMENT CO | 2016 PASEO DEL MAR | | | PALOS VERDES ESTATES | CA | 90274-2659 |
| 533 N MARIPOSA LLC | 16830 VENTURA BLVD STE 100 | | | ENCINO | CA | 91436-1721 |
| 6210 SOUTH VERMONT LLC | 3701 WILSHIRE BLVD | STE 535 | | LOS ANGELES | CA | 90010-2831 |
| 6210 SOUTH VERMONT LLC | 3701 WILSHIRE BLVD | STE 535 | | LOS ANGELES | CA | 90010-2831 |
| A.C. WARNACK | C/O INVESTMENT MNGMT. | 45730 DIVISION STREET | | LANCASTER | CA | 93535 |
| A1 WORLD WHOLESALE COMPANY INC | 833 S WESTERN AVE STE 101 | | | LOS ANGELES | CA | 90005-3387 |
| AAA TRUCK WASH | 6052 FRY ST APT B | | | BELL GARDENS | CA | 90201-4762 |
| AARON SCOBIE | 40056 CASTANA LN | | | PALMDALE | CA | 93551 |
| AARON SEARCY | 24210 JOSHUA AVE | | | BORON | CA | 93516-1323 |
| ABBEY GASSEMI | 1602 CHURCH ST | | | SIMI VALLEY | CA | 93065-3979 |
| ABEL PEREZ | 38602 31ST ST E | | | PALMDALE | CA | 93550-4206 |
| ABOUDAGHER HOSSAN | 10235 E AVENUE E8 | | | LANCASTER | CA | 93535-8001 |
| ABRAHAM GAZMEN | 18700 LEMAY ST | | | RESEDA | CA | 91335-5214 |
| ABRAHAM ZUNO | 25186 PATTERSON RD | | | LANCASTER | CA | 93536-9606 |
| ACCREDITED HOME LENDERS INC | 12075 ROSSITER AVE | | | SYLMAR | CA | 91342-5256 |
| ADAM DYER | 8301 MOJAVE AVE | | | ROSAMOND | CA | 93560-7188 |
| ADARSH ARORA | 5936 LEMP AVE | | | N HOLLYWOOD | CA | 91601-1025 |
| ADELA ALAS | 3476 STATEVIEW BLVD | | | FORT MILL | SC | 29715-7203 |
| ADELAIDA CASTANON | 3425 DAKOTA ST | | | ROSAMOND | CA | 93560-7604 |
| ADELE ALONSO | 123 CONGRESS ST | | | ORANGE | MA | 01364-1640 |
| ADEOLU OYENUSI | 15830 SILVER SPRINGS DR | | | CHINO HILLS | CA | 91709-7847 |
| ADOLPH GONZALES | 25104 LAGUNA HONDA | | | HEMET | CA | 92544-3367 |
| ADRIAN PEREZ | 45210 70TH ST E | | | LANCASTER | CA | 93535-8308 |
| ADRIANA ESCALANTE | 212 E AVENUE K6 STE 330 | | | LANCASTER | CA | 93535-4565 |
| AERO SPORTS SKYPARK CORP | 4171 KNOX AVE | | | ROSAMOND | CA | 93560-6420 |
| AGNES LIPE | 5264 MOHAVE DR | | | SIMI VALLEY | CA | 93063-2008 |
| AGUILAR MAURICIO A / ZARAGOZA PATRICIA | 916 E 24TH ST | | | LOS ANGELES | CA | 90011-1615 |
| AGUILAR MIGUEL G | 10345 E PALMDALE BLVD | | | PALMDALE | CA | 93591-2300 |
| AGUSTIN CABRALES | 14400 MELODY LN | | | ROSAMOND | CA | 93560-7006 |
| AIC PARTNERSHIP | 3917 TRIMAR CT | | | SAN JOSE | CA | 95111-1583 |
| AIDA BARNEY | PO BOX 1706 | | | SCOTTSBLUFF | NE | 69363-1706 |
| AIDA BUCAGO | 4134 E BAINBRIDGE AVE | | | ANAHEIM | CA | 92807-2823 |
| AIDA TORRES | PO BOX 6922 | | | LANCASTER | CA | 93539-6922 |
| AIDA WALLS | 2019 E OLDFIELD ST | | | LANCASTER | CA | 93535-1728 |
| AIDAN CONROY | 30215 185TH ST E | | | LLANO | CA | 93544 |
| AIRY KLAUDT | 24208 SAGE AVE | | | BORON | CA | 93516-1334 |
| ALAN COMPTON | 10721 PINECREST MESA RD | | | LITTLEROCK | CA | 93543-4226 |
| ALAN NUNNENKAMP | 7551 GASKELL RD | | | ROSAMOND | CA | 93560-7028 |
| ALAN PARKER | 119 8TH ST | | | SEAL BEACH | CA | 90740-6303 |
| ALAN REIL | 14801 CHIPWOOD CT | | | MAGALIA | CA | 95954-9014 |
| ALAN WILLHITE | 22847 W AVENUE D STE 6 | | | LANCASTER | CA | 93536-9262 |
| ALATORRE | 10911 BERRY AVE | | | ANAHEIM | CA | 92804-6311 |
| ALBA TABLAS | 5120 RELA WAY W | | | QUARTZ HILL | CA | 93536-2509 |
| ALBERT BAKER | 35130 WYSE RD | | | AGUA DULCE | CA | 91390-4654 |
| ALBERT BLIGHT | 2076 65TH ST W | | | ROSAMOND | CA | 93560-6535 |
| ALBERT LEE | 135 W GREEN ST STE 100 | | | PASADENA | CA | 91105-4131 |
| ALBERT LEE | 560 S SANTA ANITA AVE | | | SAN MARINO | CA | 91108-1417 |
| ALBERT LEE | 560 S SANTA ANITA AVE | | | SAN MARINO | CA | 91108-1417 |
| ALBERT MAUPIN | 7350 E AVENUE K | | | LANCASTER | CA | 93535-8627 |
| ALBERT MILLER | 8016 SWEETSER RD | | | ROSAMOND | CA | 93560-7156 |
| ALBERTO ANDRADE | 5807 UNIVERSITY AVE | | | SAN DIEGO | CA | 92115-6295 |
| ALBERTO TOVAR | 403 GRISWOLD AVE | | | SAN FERNANDO | CA | 91340-2473 |
| ALCIDA GIBSON | PO BOX 901896 | | | PALMDALE | CA | 93590-1896 |
| ALDEN CARDER | 6120 E AVENUE G | | | LANCASTER | CA | 93535-7809 |
| ALDOUS PABON | 315 S HARVARD BLVD APT 210 | | | LOS ANGELES | CA | 90020-6311 |
| ALEINE DOLE | 38610 140TH ST E | | | PALMDALE | CA | 93591-2500 |
| ALEJANDRA ACOSTA | 43019 57TH ST W | | | LANCASTER | CA | 93536-5652 |
| ALEJANDRO TELLO | 828 ROSE AVE | | | VENICE | CA | 90291-2832 |
| ALESE BELL | 1541 STUART ST | | | CAMBRIA | CA | 93428-5921 |
| ALETHA GROSSMAN | PO BOX 947 | | | LITTLEROCK | CA | 93543-0947 |
| ALEXANDRA PANAGOULIAS | 150 ALLEGHENY CENTER MALL | | | PITTSBURGH | PA | 15212-5335 |
| ALEXIS RAMIREZ | 2017 MORNING GLORY ST | | | SIMI VALLEY | CA | 93065-3548 |
| ALFONSO MUNOZ | 26342 RAINBOW GLEN DR | | | NEWHALL | CA | 91321-1393 |
| ALFONSO SALGADO | 47027 70TH ST W | | | LANCASTER | CA | 93536-8531 |
| ALFONSO SOSA | 13440 SUNDANCE AVE | | | WHITTIER | CA | 90605-3449 |
| ALFRED BILLYZONE | 542 E AVENUE G | | | LANCASTER | CA | 93535-5900 |
| ALFRED HORMOZIAN | 10623 ATLANTA AVE | | | NORTHRIDGE | CA | 91326-2901 |
| ALFRED JACKS | 15953 SPUNKY CANYON RD | | | SANTA CLARITA | CA | 91390-4907 |
| ALFREDO MARQUEZ | 6765 CHERRY AVE | | | LONG BEACH | CA | 90805-1716 |
| ALFREDO STEPHANI | 4601 ELIZABETH LAKE RD | | | LEONA VALLEY | CA | 93551-7503 |
| ALICE CROSBY | 18320 STERLING PL | | | COTTONWOOD | CA | 96022-8037 |
| ALICE GOMES | 1163 N ALEXANDRIA AVE | | | LOS ANGELES | CA | 90029-1407 |
| ALICE HARRIS | PO BOX 802352 | | | SANTA CLARITA | CA | 91380-2352 |
| ALICE MARTIN | PO BOX 384 | | | PEARBLOSSOM | CA | 93553-0384 |
| ALICE MATLOCK | 25830 CHERRYHILL DR | | | BORON | CA | 93516-1203 |
| ALICIA LERMA | 2571 57TH ST W | | | ROSAMOND | CA | 93560-6541 |
| ALICIA MARTINEZ | 9748 COZYCROFT AVE STE J | | | CHATSWORTH | CA | 91311-4400 |
| ALISON COLEMAN | 13335 E AVENUE W11 | | | PEARBLOSSOM | CA | 93553-3213 |
| ALISON KAPUSTA | 24155 JOSHUA AVE | | | BORON | CA | 93516-1320 |
| ALISON TODD | 9764 SAMOA AVE | | | TUJUNGA | CA | 91042-3122 |
| ALL NATIONS CHURCH | 10000 FOOTHILL BLVD | | | SYLMAR | CA | 91342-7040 |
| ALL NATIONS INTERNATIONAL | 44505 90TH ST W | | | LANCASTER | CA | 93536-7705 |

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|---|---|---|---|---|
| ALLAN ANDREWS | PO BOX 6224 | LANCASTER | CA | 93539-6224 |
| ALLAN BAIRD | 24147 SAGE AVE | BORON | CA | 93516-1331 |
| ALLEN FRANK / LORRI BAUSTON | 14660 E PALMDALE BLVD | PALMDALE | CA | 93591-2938 |
| ALLEN ROBINSON | 7485 NEW HORIZON WAY BLDG 3 | FREDERICK | MD | 21703-8388 |
| ALLISON DINNGER | 800 70TH ST W | ROSAMOND | CA | 93560-7060 |
| ALLISON RHODEN | PO BOX 1280 | PEARBLOSSOM | CA | 93553-2280 |
| ALLRED LOUIS R SR / ALLRED KAREN L | 50496 65TH ST W | LANCASTER | CA | 93536-9556 |
| ALMA OERTLY | 8439 COSTELLO AVE | PANORAMA CITY | CA | 91402-3724 |
| ALMA TATLONGHARI | 7711 GENTRY AVE | N HOLLYWOOD | CA | 91605-2856 |
| ALMAS MANORI | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| ALTAMIRANO FRANCISCO / ALTAMIRANO SANDRA | 45835 110TH ST E | LANCASTER | CA | 93535-8503 |
| ALTON HALE | PO BOX 11007 | BAKERSFIELD | CA | 93389-1007 |
| ALVARADO MARIA I | 45420 60TH ST W | LANCASTER | CA | 93536-8322 |
| ALVIN ANDRES | 745 GARFIELD ST | SAN FRANCISCO | CA | 94132-2622 |
| ALVIN NAGUIAT | 7485 NEW HORIZON WAY BLDG 3 | FREDERICK | MD | 21703-8388 |
| ALYCE MILLER | 22021 PRAIRIE ST | CHATSWORTH | CA | 91311-5723 |
| AMADA DELACRUZ | 36556 CALICO WAY | PALMDALE | CA | 93550-8450 |
| AMANDA FOX | 24329 TAMARISK AVE | BORON | CA | 93516-1349 |
| AMANTHA FLORES | 1600 KAPALUA DR | OXNARD | CA | 93036-7761 |
| AMARA MUHAMMAD | 6900 BEATRICE DR | KALAMAZOO | MI | 49009-9559 |
| AMARANT JEREMY / AMARANT ALBA W | 40813 SLATE CT | PALMDALE | CA | 93551-1805 |
| AMBER LANEY | 12650 INGENUITY DR | ORLANDO | FL | 32826-2703 |
| AMBROSE GENEVIEVE | 48825 120TH ST E | LANCASTER | CA | 93535-8010 |
| AMELIA DELACRUZ | 7485 NEW HORIZON WAY BLDG 3 | FREDERICK | MD | 21703-8388 |
| AMELIA ESPINOZA | 2944 65TH ST W | ROSAMOND | CA | 93560-6925 |
| AMELIA GOMEZ | 4034 E CALLE SAN RAPHAEL | PALM SPRINGS | CA | 92264-1306 |
| AMELSITO YESSI | 3109 E AVENUE K4 | LANCASTER | CA | 93535-4946 |
| AMER ISLAMIC INSTITUTE ANTELOPE VALLEY | PO BOX 902846 | PALMDALE | CA | 93590-2846 |
| AMERICAN LEGION POST NO 311 | PO BOX 311 | LANCASTER | CA | 93584-0311 |
| AMERICAN PERFORMANCE ENGINEERING INC | PO BOX 749 | TEHACHAPI | CA | 93581-0749 |
| AMERICAN TOWERS INC | PO BOX 3122 | LANDERS | CA | 92285-0122 |
| AMILCAR BADANO | 1210 E BROADWAY | GLENDALE | CA | 91205-1408 |
| AMIR KOSSARIAN | PO BOX 606 | LAKE HUGHES | CA | 93532-0606 |
| AMIRALI KASAM | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| AMIRH LOZANI | 6626 MICHAELJOHN DR | LA JOLLA | CA | 92037-6239 |
| AMMONS JOEL | 37715 STANDISH PL | PALMDALE | CA | 93551-6951 |
| AMPARO REYES | 800 STATE HIGHWAY 121 BYP | LEWISVILLE | TX | 75067-4180 |
| AMSBERRY ANITA L / BRIEN TIMOTHY L | 13361 E AVENUE D8 | LANCASTER | CA | 93535-8016 |
| AMY BREWER | 4545 E AVENUE S4 | PALMDALE | CA | 93552-5202 |
| AMY DAMRON | PO BOX 1951 | LANCASTER | CA | 93539-1951 |
| AMY DAMRON | PO BOX 1951 | LANCASTER | CA | 93539-1951 |
| AMY FINCH | PO BOX 2311 | GILBERT | AZ | 85299-2311 |
| AMY GREGORY | 10735 LEONA AVE | LEONA VALLEY | CA | 93551-7304 |
| AMY STOLL | 2546 KOR AVE | MORRO BAY | CA | 93442 |
| ANA CALZADA | 17262 E AVENUE R | PALMDALE | CA | 93591-3702 |
| ANA CINCO | 43718 32ND ST E | LANCASTER | CA | 93535-6217 |
| ANA RIVERA | 9008 LEMONA AVE | NORTH HILLS | CA | 91343-5515 |
| ANA RIVERA | 2548 E AVENUE K | LANCASTER | CA | 93535-5504 |
| ANABELLE CHIRINOS | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| ANABELLE FARMER | 402 E AVENUE R5 | PALMDALE | CA | 93550-5229 |
| ANATOLY VALUSHKIN | 13910 OLD HARBOR LN APT 307 | MARINA DL REY | CA | 90292-7334 |
| ANDRADA TOMMY E SR / ANDRADA REMEDIOS | 49509 35TH ST W | LANCASTER | CA | 93536-9502 |
| ANDRE CAESAR | 3543 W 119TH CT | INGLEWOOD | CA | 90303-2921 |
| ANDREA BYERLY | PO BOX 1687 | ROSAMOND | CA | 93560-1687 |
| ANDREA JONES | 2946 130TH ST W | ROSAMOND | CA | 93560-7294 |
| ANDREA NAVARRO | 6767 CHERRY AVE STE 1 | LONG BEACH | CA | 90805-1716 |
| ANDREONI RANDY E | 48751 245TH ST W | LANCASTER | CA | 93536-9121 |
| ANDRES RODRIGUEZ | PO BOX 1 | LLANO | CA | 93544-0001 |
| ANDRES ROJAS | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| ANDREW BLUA | 38220 170TH ST E | PALMDALE | CA | 93591-3606 |
| ANDREW BROOKS | PO BOX 5776 | LANCASTER | CA | 93539-5776 |
| ANDREW CALLAHAN | 1338 60TH ST W | ROSAMOND | CA | 93560-6975 |
| ANDREW CARNEY | 1401 99TH ST W | ROSAMOND | CA | 93560-7090 |
| ANDREW SAY | 26785 WYATT LN | STEVENSON RANCH | CA | 91381-1001 |
| ANDREW SAY | 26785 WYATT LN | STEVENSON RANCH | CA | 91381-1001 |
| ANEL ZARATE | 6900 BEATRICE DR | KALAMAZOO | MI | 49009-9559 |
| ANGEL COOKE | 7531 GASKELL RD | ROSAMOND | CA | 93560-7028 |
| ANGEL GARCIA | 9509 FELTON AVE | INGLEWOOD | CA | 90301-3615 |
| ANGEL VASQUEZ | 2917 VIRGINIA AVE | SANTA MONICA | CA | 90404-5031 |
| ANGEL WARNER | 1788 65TH ST W | ROSAMOND | CA | 93560-6911 |
| ANGELA BRIDGES | PO BOX 532823 | LOS ANGELES | CA | 90053-2823 |
| ANGELA CHONG | 18214 CHATHAM LN | NORTHRIDGE | CA | 91326-3611 |
| ANGELA KAY | 10790 RANCHO BERNARDO RD | SAN DIEGO | CA | 92127-5705 |
| ANGELA SUPPE | 18030 GASKELL RD | ROSAMOND | CA | 93560-7194 |
| ANGELA VALDIVIA | 4627 SWEETSER RD | ROSAMOND | CA | 93560-6454 |
| ANGELES MISTY M / ANGELES ANDRES D JR | 46415 60TH ST E | LANCASTER | CA | 93535-7828 |
| ANGELIA LOPEZ | 5539 S WISHING WELL WAY | FORT MOHAVE | AZ | 86426-8880 |
| ANGELICA VIRGEN | PO BOX 1804 | ROSAMOND | CA | 93560-1804 |
| ANITA RAMIREZ | 630 N VERNON AVE | AZUSA | CA | 91702-2835 |
| ANITA SMITH | 12532 BERNADETTE ST | HANSEN HILLS | CA | 91331-2035 |
| ANITA TALBOT | 9 RUSTLER LN | ROLLING HILLS ESTATES | CA | 90274-1543 |
| ANN MOORE | PO BOX 943 | ROSAMOND | CA | 93560-0943 |
| ANN SUMPTER | 24225 JOSHUA AVE | BORON | CA | 93516-1322 |
| ANNA BEARD | PO BOX 3869 | HUNTINGTON BEACH | CA | 92605-3869 |
| ANNA DENSING | PO BOX 1512 | ROSAMOND | CA | 93560-1512 |
| ANNA KENT | 6009 CHARMAIN ST | BAKERSFIELD | CA | 93313-3665 |
| ANNE MASON | PO BOX 1346 | ROSAMOND | CA | 93560-1346 |

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|---|---|---|---|---|---|
| ANNETTE AGUIRRE | 11874 PASEO LUCIDO APT 1061 | | SAN DIEGO | CA | 92128-6282 |
| ANNETTE CADDY | 5310 E HARCO ST | | LONG BEACH | CA | 90808-1922 |
| ANNIA LEE | 2648 DORAY CIR | | MONROVIA | CA | 91016-5082 |
| ANNIE CHEN | 19757 STAGG ST | | WINNETKA | CA | 91306-2651 |
| ANNIE CHOI | 25269 THE OLD RD STE B | | STEVENSON RNH | CA | 91381-2202 |
| ANNIE GIBSON | 16785 STAGECOACH AVE | | PALMDALE | CA | 93591-3214 |
| ANNIE TRAN | 624 S LASSEN CT | | ANAHEIM | CA | 92804-3123 |
| ANTELOPE VALLEY CATTLE | PO BOX 2468 | | LANCASTER | CA | 93539-2468 |
| ANTELOPE VALLEY CATTLE AND | PO BOX 2468 | | LANCASTER | CA | 93539-2468 |
| ANTELOPE VALLEY COUNTRY CLUB | 39800 COUNTRY CLUB DR | | PALMDALE | CA | 93551-2970 |
| ANTHONY CASELLA | PO BOX 23 | | LLANO | CA | 93544-0023 |
| ANTHONY FASO | 9081 BUCKHORN AVE | | ROSAMOND | CA | 93560-7274 |
| ANTHONY FIORELLA | 900 BIRMINGHAM RD | | BURBANK | CA | 91504-1911 |
| ANTHONY GALEAZZI | 131 YORK ST | | ROSAMOND | CA | 93560-7067 |
| ANTHONY HURTZ | 24451 SAGE AVE | | BORON | CA | 93516-1337 |
| ANTHONY LEE | 18162 PARKVIEW LN APT 208 | | HUNTINGTN BCH | CA | 92648-5604 |
| ANTHONY RUTE | PO BOX 2182 | | ROSAMOND | CA | 93560-2182 |
| ANTOINE DOLBAKIAN | 6327 ETHEL AVE | | VAN NUYS | CA | 91401-2524 |
| ANTONE DAVIS | 18832 OAK RIDGE DR | | SANTA ANA | CA | 92705-2252 |
| ANTONIA REYES | 13315 E AVENUE E8 | | LANCASTER | CA | 93535-8023 |
| ANTONINO ANCHETA | 7711 BELLAIRE AVE | | N HOLLYWOOD | CA | 91605-2114 |
| ANTONIO AMBRIZ | 8671 MADISON AVE | | MIDWAY CITY | CA | 92655-1130 |
| ANTONIO GUZMAN | 0 99-080 OLOPARIA ST | | AIEA | HI | 96701 |
| ANTONIO LOPEZ | 43944 SAN FRANCISCO AVE | | LANCASTER | CA | 93535-5888 |
| ANTONIO MAGPANTAY | 20801 TRIBUNE ST | | CHATSWORTH | CA | 91311-1531 |
| ANTONIO PEREZ | 37712 210TH ST E | | PALMDALE | CA | 93591-4514 |
| ANTONIO ROMERO | 6022 EL DORADO AVE | | ROSAMOND | CA | 93560-6564 |
| ANTONIO SEGURA | 5961 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| ANTONIO TRUJILLO | 1530 SAN ANDRES ST | | SANTA BARBARA | CA | 93101-4104 |
| APOLINAR GALLARDO | 11960 E AVENUE S | | LLANO | CA | 93544 |
| APOLINAR TORRES | 45153 110TH ST W | | LANCASTER | CA | 93536-9007 |
| APPLETON WILLIAM R | APPLETON JACQUELINE S | 11841 JUNIPER HILLS RD | LITTLEROCK | CA | 93543-4207 |
| APRIL SYREK | 75 CAPRA WAY APT 305 | | SAN FRANCISCO | CA | 94123-1542 |
| ARCELIA SEGURA | 5800 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560 |
| ARCELLA DUNGAN | 28575 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3423 |
| ARCHDALE DONALD / ARCHDALE CHERYL | 12647 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3453 |
| ARCHIE HINCHEN | PO BOX 5056 | | LANCASTER | CA | 93539-5056 |
| AREFAINE ABRAHAM / AREFAINE DARLENE | 37206 THE GRVS | | PALMDALE | CA | 93551-6234 |
| ARGENT MORTGAGE COMPANY LLC | PO BOX 11000 | | SANTA ANA | CA | 92711-1000 |
| ARIEL CUMIGAD | PO BOX 1281 | | LANCASTER | CA | 93584-1281 |
| ARKLIN PHILIP H; CRISTINA | ARKLIN PHILIP M /TR | 30081 VALYERMO RD | VALYERMO | CA | 93563 |
| ARLENE COPELAND | PO BOX 1244 | | ROSAMOND | CA | 93560-1244 |
| ARLETTE SMITH | 309 N BALDY VISTA AVE | | GLENDORA | CA | 91741-6606 |
| ARLIN BROWN | 8549 UNDERWOOD AVE | | CALIF CITY | CA | 93505-3857 |
| ARMANDO CORONA | 10239 MCNERNEY AVE | | SOUTH GATE | CA | 90280-6707 |
| ARMANDO GONZALEZ | 10735 AQUA VISTA ST | | N HOLLYWOOD | CA | 91602-3206 |
| ARMIDA CLOSSER | PO BOX 14506 | | IRVINE | CA | 92623-4506 |
| ARNEL AGLUGUB | 25755 HAWTHORNE PL | | STEVENSON RNH | CA | 91381-1452 |
| ARNULFO SANDOVAL | PO BOX 955 | | ROSAMOND | CA | 93560-0955 |
| ARREN SMOOT | 5402 COLONY GREEN DR | | SAN JOSE | CA | 95123-1469 |
| ARSEN SARIAN | PO BOX 4658 | | WEST HILLS | CA | 91308-4658 |
| ARTHUR KENNETH E / ARTHUR K ; J /TR | 17850 W AVENUE E8 | | LANCASTER | CA | 93536-9717 |
| ARTHUR KIDD | 122 W 61ST ST | | LOS ANGELES | CA | 90003-1402 |
| ARTHUR LOMBARD | PO BOX 929 | | ROSAMOND | CA | 93560-0929 |
| ARTHUR LUCERO | 2830 DAVENPORT ST | | ROSAMOND | CA | 93560-6515 |
| ARTHUR MUNOZ | 500 W SANTA MARIA ST | SPC 31 | SANTA PAULA | CA | 93060-4283 |
| ARTURO SERRANO | 3102 E AVENUE K4 | | LANCASTER | CA | 93535-4933 |
| ASAD YAVARI | 2812 58TH ST W | | ROSAMOND | CA | 93560 |
| ASADOLLAH YAVARI | 2613 DIAMOND ST | | ROSAMOND | CA | 93560-6176 |
| ASCO GOLDEN LAND INC | 2241 SERRANO PL | | FULLERTON | CA | 92833-1849 |
| ASDRUBAL LOPEZ | 2003 FITZGERALD BLVD | | EDWARDS | CA | 93523 |
| ASHLOCK DONALD J / ASHLOCK BILLIE J | 47322 180TH ST W | | LANCASTER | CA | 93536-9055 |
| ASIA INVESTMENT GROUP LLC | 223 N ORANGE AVE | | MONTEREY PARK | CA | 91755-2033 |
| ASSET BACKED TRUST AMQ 2006-HE7 | 39540 CHANTILLY LANE | | PALMDALE | CA | 93551-1010 |
| ATKINS THOMAS W / ATKINS WENDY A | 32043 LARGO VISTA RD | | LLANO | CA | 93544-1441 |
| AUDRA BURGESS | PO BOX 2145 | | ROSAMOND | CA | 93560-2145 |
| AURA MORENO | 48841 E 12TH ST | | LANCASTER | CA | 93535 |
| AURELIO ALATORRE | 5377 ELDER AVE | | ROSAMOND | CA | 93560-6904 |
| AURORA LN SVCS | 327 INVERNESS DR S | | ENGLEWOOD | CO | 80112-6012 |
| AURORA LOAN SERVICES LLC | 327 INVERNESS DR S | | ENGLEWOOD | CO | 80112-6012 |
| AUSTIN ANTHONY | 50651 182ND ST W | | LANCASTER | CA | 93536-9287 |
| AUTOMOTIVE RENTALS INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| AUTRY 1992 TRUST | 42016 35TH ST W | | LANCASTER | CA | 93536-6717 |
| AUTUMN WEIGAND | 285 GREEN MOOR PL | | THOUSAND OAKS | CA | 91361-1162 |
| AVELO MORTGAGE LLC | 250 E JOHN CARPENTER FWY STE 300 | | IRVING | TX | 75062-2710 |
| AVTWO HOMES LLC | 1000 DOVE ST STE 100 | | NEWPORT BEACH | CA | 92660-2822 |
| AYERS LIONEL / AYERS WANDOLYN | 44538 70TH ST E | | LANCASTER | CA | 93535-8311 |
| AYNDREA BEALMER | 2833 55TH ST W | | ROSAMOND | CA | 93560-6539 |
| B CHANCELLOR | 43006 BLOOMINGPARK ST | | LANCASTER | CA | 93536-4645 |
| BACHAN KAUR | 19532 GIFFORD ST | | RESEDA | CA | 91335-8024 |
| BAILEY ROBERT E / BAILEY KARIN L | 10710 SILVERWIND AVE | | LANCASTER | CA | 93536-7720 |
| BALDERAS ROSIE / GUERRERO SAMUEL | 47634 DIVISION ST | | LANCASTER | CA | 93535-6502 |
| BALRAJ SINGH | 13034 DEAR CANYON CT | | SAN DIEGO | CA | 92131-4220 |
| BANC OF AMERICA LEASING & CAPITAL LLC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| BANIQUED NYLER / BANIQUED ARACELI | 3555 W AVENUE J | | LANCASTER | CA | 93536-6201 |
| BANK OF AMERICA | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| BANK OF N Y TRS | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |

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|---|---|---|---|---|---|
| BAOQUOC NGUYEN | 8547 CAPE COD AVE | | FOUNTAIN VALLEY | CA | 92708-5018 |
| BARAKAT ABDUL | 6312 SEABISCUT PL | | MOORPARK | CA | 93021-9794 |
| BARBA CHARLIE / BARBA SONIA | 2321 EVENING PRIMROSE AVE | | PALMDALE | CA | 93551-4184 |
| BARBARA BENCHOFF | PO BOX 618 | | PEARBLOSSOM | CA | 93553-0618 |
| BARBARA BERGER | PO BOX 900 | | LITTLEROCK | CA | 93543-0900 |
| BARBARA BRAZIL | 4702 W AVENUE M14 | | QUARTZ HILL | CA | 93536 |
| BARBARA CASH | 23125 ERIEL AVE | | TORRANCE | CA | 90505-3155 |
| BARBARA CLARY | 3807 SIERRA HWY STE 6 | | ACTON | CA | 93510-1256 |
| BARBARA CULBERTSON | 3930 LA MARADA WAY | | KLAMATH FALLS | OR | 97603-7713 |
| BARBARA DURIAN | 1705 BRIDGEPORT AVE | | CLAREMONT | CA | 91711-2519 |
| BARBARA HALL | 3645 W 113TH ST | | INGLEWOOD | CA | 90303-2709 |
| BARBARA HICKSMCAFEE | 14356 PINNACLE CT | | SANTA CLARITA | CA | 91387-2215 |
| BARBARA JARVIS | 12491 EL MIRAGE ST | | BORON | CA | 93516-1354 |
| BARBARA KNOX | 1316 CORONADO DR | | BOULDER CITY | NV | 89005-2206 |
| BARBARA MARKS | PO BOX 111 | | BORON | CA | 93596-0111 |
| BARBARA MELVIN | 38901 230TH ST E | | PALMDALE | CA | 93591-4706 |
| BARBARA MITCHELL | 45740 95TH ST W | | LANCASTER | CA | 93536-8004 |
| BARBARA MOSS | 1049 CINNAMON RANCH RD | | BISHOP | CA | 93514-9481 |
| BARBARA MURPHY | 2135 N OXNARD BLVD | | OXNARD | CA | 93036-2362 |
| BARBARA PENN | 2346 W AVENUE N8 | | PALMDALE | CA | 93551-2373 |
| BARBARA REIL | 14801 CHIPWOOD CT | | MAGALIA | CA | 95954-9014 |
| BARBARA ROGERS | PO BOX 2320 | | ROSAMOND | CA | 93560-2320 |
| BARBARA VILARDO | 27800 MCBEAN PKWY APT 249 | | VALENCIA | CA | 91354-1437 |
| BARBARA WILLIAMS | 2709 MOONWORT TERRACE | | PALMDALE | CA | 93551-6176 |
| BARBRA HOLT | 16197 H ST | APT 189 | MOJAVE | CA | 93501-1530 |
| BARDLEY WEEKS | 1031 W AVENUE M14 | STE A | PALMDALE | CA | 93551-1457 |
| BARNES RAY E / BARNES SARAH E | 5425 W AVENUE E12 | | LANCASTER | CA | 93536 |
| BARNETTE HOWARD | 14650 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3437 |
| BARR CLOSSON | 645 TABOR LN | | SANTA BARBARA | CA | 93108-1536 |
| BARR GARY W / BARR SUSAN S | 13006 E AVENUE H | | LANCASTER | CA | 93535-8722 |
| BARREL SPRINGS PROPERTIES, LLC | C/O CAROL R. SEVILLA | 1719 CALIFORNIA AVENUE | SANTA MONICA | CA | 90403 |
| BARRY OLSON | PO BOX 10 | | PEARBLOSSOM | CA | 93553-0010 |
| BAUDELIO SANCHEZ | 20315 E AVENUE R | | PALMDALE | CA | 93591-4516 |
| BAUMGARTNER GAIL IRENE TR | ATTN: GAIL BAUMGARTNER | 10082 LESLIE AVE | ROSAMOND | CA | 93560-7079 |
| BAXTER WALLACE J / BAXTER TINA M | 10510 W AVENUE I | | LANCASTER | CA | 93536-8016 |
| BAYSHORE LLC ET AL | 1925 CENTURY PARK E STE 1160 | | LOS ANGELES | CA | 90067-2712 |
| BEATRICE COLLINS WILTON | PO BOX 105 | | ROSAMOND | CA | 93560-0105 |
| BEATRICE DERRICK | 8847 E AVENUE G12 | | LANCASTER | CA | 93535-7905 |
| BEATRICE REID | 24122 JUNIPER AVE | | BORON | CA | 93516-1328 |
| BEATRIZ GALVAN | 121 N CHEVY CHASE DR STE B | | GLENDALE | CA | 91206-4522 |
| BEAULIEU KERRY | 10745 PINECREST MESA RD | | LITTLEROCK | CA | 93543-4226 |
| BEAZER HOMES HOLDING CORP | 1100 W TOWN AND COUNTRY RD | | ORANGE | CA | 92868-4600 |
| BECKWITH LESLIE C | 36700 PICKFAIR ST | APT 3 | CATHEDRAL CTY | CA | 92234-1323 |
| BEHJAT NOBEL | 11208 CHALON RD | | LOS ANGELES | CA | 90049-1719 |
| BEHROOZ JADIDOLLAH | 8605 AIRDROME ST | | LOS ANGELES | CA | 90035-4409 |
| BEHZAD MANZOOR | 715 METROPOLITAN AVE | | OKLAHOMA CITY | OK | 73108-2088 |
| BEL AIR INVESTORS LTD | 19311 VANOWEN ST FL 2 | | RESEDA | CA | 91335-5023 |
| BELL TR | 4652 SWEETSER RD | | ROSAMOND | CA | 93560-6454 |
| BELLA LOPEZ | 11808 FELLOWS AVE | | SAN FERNANDO | CA | 91340-1812 |
| BELLO LORENA / BELLO JOSEPH | 37200 THE GRVS | | PALMDALE | CA | 93551-6234 |
| BENCH MICHAEL L / BENCH TERRIE L | 7200 W AVENUE H | | LANCASTER | CA | 93536-8112 |
| BENDELL WILLIAM G / BENDELL DONNA G | 4560 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| BENDER RAWN M | 7155 W AVENUE H | | LANCASTER | CA | 93536-8113 |
| BENEDICT ROBERT / BENEDICT JULIE | 3217 E AVENUE G | | LANCASTER | CA | 93535-7709 |
| BENEDICTO CASTILLO | 8918 GAYNOR AVE | | NORTH HILLS | CA | 91343-3013 |
| BENHAM DAVID W / BENHAM MARY E | 49505 60TH ST W | | LANCASTER | CA | 93536-9555 |
| BENJAMIN EASTER | 35820 165TH ST E | | LLANO | CA | 93544-1114 |
| BENJAMIN GREENE | 4444 E AVENUE R SPC 14 | | PALMDALE | CA | 93552-6705 |
| BENJAMIN TAYLOR | 6120 ARMAGA SPRING RD | | RCH PALOS VRD | CA | 90275-4803 |
| BENJAMINA KARLIS | 797 BOXTHORN AVE | | NEWBURY PARK | CA | 91320-5331 |
| BENNETT BARNEY | 11207 LINDA MESA RD | | JUNIPER HILLS | CA | 93543-4224 |
| BERCHTOLD EQUIPMENT COMPANY INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| BERDA BYRD | 35317 87TH ST E | | LITTLEROCK | CA | 93543-3119 |
| BERGER STEVEN / BERGER BARBARA | PO BOX 900 | | LITTLEROCK | CA | 93543-0900 |
| BERKSHIRE INV CO | 11650 BANNER MOUNTAIN TRL | | NEVADA CITY | CA | 95959-8830 |
| BERNADINE VACTOR | 4957 VISTA DE ORO AVE | | LOS ANGELES | CA | 90043-1653 |
| BERNARD CALVERT | 2109 W AVENUE N8 | | PALMDALE | CA | 93551-2370 |
| BERNARD ROCCA | 4775 61ST ST W | | ROSAMOND | CA | 93560-6566 |
| BERNARD WILLIAMS | 41813 PICO WAY | | PALMDALE | CA | 93551-4721 |
| BERNARDINO HILDALGO | 14523 SW MILLIKAN WAY STE 200 | | BEAVERTON | OR | 97005-2352 |
| BERNARDO BANUELOS | 11635 SATICOY ST | | NORTH HOLLYWOOD | CA | 91605-2945 |
| BERNICE COOPER | 6057 SWEETSER RD | | ROSAMOND | CA | 93560-6550 |
| BERNSTEIN EVAN | 37121 THE GRVS | | PALMDALE | CA | 93551-6233 |
| BERRY GORDON ; GERTRUDE / BERRY FAMILY | 250 S PASADENA AVE | UNIT 3071 | PASADENA | CA | 91105-1871 |
| BERT WHITFIELD | 29112 S HIGHMORE AVE | | RCH PALOS VRD | CA | 90275-2024 |
| BERTCH STABELL | 572 60TH ST W | | ROSAMOND | CA | 93560-6956 |
| BERTHA CEDILLOS | 13160 E AVENUE J | | LANCASTER | CA | 93535-8709 |
| BERTHA MC KINNEY | 24218 JUNIPER AVE | | BORON | CA | 93516-1329 |
| BEST ROBERT J / BEST JANET | 20502 W AVENUE D | | LANCASTER | CA | 93536-9265 |
| BETHEL WOODS | 46047 20TH ST E | | LANCASTER | CA | 93535-6002 |
| BETTY CRIM | 8756 SVL BOX | | VICTORVILLE | CA | 92395-5179 |
| BETTY DOSS | 43301 33RD ST E | | LANCASTER | CA | 93535-4949 |
| BETTY FITZPATRICK | 5711 GOBI AVE | | ROSAMOND | CA | 93560-6990 |
| BETTY GAMBONE | 2813 GEARY ST SE | | ALBANY | OR | 97322-5511 |
| BETTY LANCASTER | PO BOX 1085 | | ROSAMOND | CA | 93560-1085 |
| BETTY LOEHR | 5457 60TH ST W | | ROSAMOND | CA | 93560-6584 |
| BETTY MILLER | 27095 JEROME ST | | BORON | CA | 93516-1631 |

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|---|---|---|---|---|---|
| BETTY RIDGWAY | 5141 61ST ST W | | ROSAMOND | CA | 93560-6464 |
| BETTY SPENCER | 2112 STRATFORD DR UNIT B | | MONTROSE | CO | 81401-5220 |
| BEULAH CANFIELD | PO BOX 309 | | LITTLEROCK | CA | 93543-0309 |
| BEVERLEE BERG | PO BOX 146 | | LITTLEROCK | CA | 93543-0146 |
| BEVERLY BELLANCA | 5841 CATHY AVE | | ROSAMOND | CA | 93560-7233 |
| BEVERLY BURGES | 333 LAKECHIME DR | | SUNNYVALE | CA | 94089-2536 |
| BEVERLY BURKITT | PO BOX 3535 | | LANDERS | CA | 92285-0535 |
| BEVERLY EKHOLM | PO BOX 4 | | VALYERMO | CA | 93563-0004 |
| BEVERLY JOSEPH | 2126 HILLSTONE DR | | SAN JOSE | CA | 95138-2413 |
| BEVERLY PAULEY | 5356 62ND ST W | | ROSAMOND | CA | 93560 |
| BEVERLY RUSSELL | PO BOX 1759 | | ROSAMOND | CA | 93560-1759 |
| BIBLE HOLINESS CHURCH | 8409 IMPERIAL HWY | | DOWNEY | CA | 90242-3832 |
| BIEHL JEFFREY R / BIEHL JENNIFER R | 11601 BEAUCOURT LN | | LITTLEROCK | CA | 93543 |
| BIENVENIDO GEALON | 3239 W 154TH ST | | GARDENA | CA | 90249-4015 |
| BIENVENIDO VEN | 577 POHAKU ST | | KAHULUI | HI | 96732-1713 |
| BIERYLA WALTER M / BIERYLA FAMILY | 46975 60TH ST E | | LANCASTER | CA | 93535-7856 |
| BIGGERSTAFF | 1571 57TH ST W | | ROSAMOND | CA | 93560-6915 |
| BIGNALL | 5401 W AVENUE A | | ROSAMOND | CA | 93560-6985 |
| BILL L. HILL | C/O CYNTHIA PANDOLFI ESQ. | 608 HAILEY COURT | SIMI VALLEY | CA | 93065 |
| BILL TOMPKINS | 12764 HOLIDAY AVE | | ROSAMOND | CA | 93560-7163 |
| BILLIE CONNER | 12301 EL MIRAGE ST | | BORON | CA | 93516-1316 |
| BILLY BELL | 44149 BEGONIA ST | | LANCASTER | CA | 93535 |
| BILLY HENDERSON | 18123 AVENUE A | | NORTH EDWARDS | CA | 93523-3311 |
| BILLY MEESE | 332 HIGHLAND DR | | OXNARD | CA | 93035-4413 |
| BILLYZONE ALFRED / BILLYZONE EURALARY | 542 E AVENUE G | | LANCASTER | CA | 93535-5900 |
| BINH NGUYEN | 15217 SEVERYNS RD | | TUSTIN | CA | 92782-1797 |
| BINKLEY ROBERT L / BINKLEY TERESA M | 4514 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| BITSKO STEPHEN M / BITSKO JENNIFER R | 48104 100TH ST E | | LANCASTER | CA | 93535-7916 |
| BLADEN TUFTS DIANA L | 11116 JUNIPER MESA RD | | LITTLEROCK | CA | 93543-3601 |
| BLANCA ELDRIDGE | 1000 TECHNOLOGY DR MS 314 | | O FALLON | MO | 63368-2239 |
| BLANCA GARCIA | 20618 COHASSET ST | | CANOGA PARK | CA | 91306-2807 |
| BLANCA PINEDA | 2129 60TH ST W | | ROSAMOND | CA | 93560-6560 |
| BLANKET INDUSTRIES INC | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| BLUFORD ROWLAND | 5204 61ST ST W | | ROSAMOND | CA | 93560-6479 |
| BOB DAVIS | 24273 SAGE AVE | | BORON | CA | 93516-1333 |
| BOBBIE BLUE | 16771 ALEXANDER AVE | | EDWARDS | CA | 93523-3525 |
| BOBBIE SEARCY | 24100 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| BOBBY OWEN | 5333 E AVENUE G | | LANCASTER | CA | 93535-7815 |
| BOEWER ROBERT ; COLLEEN / BOEWER FAMILY | 10750 4 WINDS RD | | LITTLEROCK | CA | 93543-3643 |
| BOK LEE | 1648 W 12TH PL | | LOS ANGELES | CA | 90015-1906 |
| BONES JACK JR / BONES KATHY | 12100 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4200 |
| BONES NANCY | 217 LUCAS AVE | APT 3 | LOS ANGELES | CA | 90026-6128 |
| BONG CHANG | 3671 W 6TH ST | | LOS ANGELES | CA | 90020-3026 |
| BONG PARK | 924 S CARONDELET ST | APT 110 | LOS ANGELES | CA | 90006-1953 |
| BONITA CHANEY | PO BOX 432 | | MOJAVE | CA | 93502-0432 |
| BONNIE DEXTER | 27454 ANNETTE JO CIR | | SANTA CLARITA | CA | 91350-1703 |
| BONNIE DUGAR | 2410 CHESTNUT AVE | | LONG BEACH | CA | 90806-2913 |
| BONNIE LARGE | PO BOX 949 | | LAKE HUGHES | CA | 93532-0949 |
| BONNIE STEEN | 1931 FELICIDAD DR | | LAKE HAVASU CITY | AZ | 86404-1000 |
| BOOKER MARGARET L | 18525 W AVENUE E4 | | LANCASTER | CA | 93536-9048 |
| BOOKMAN THOMAS M; JULIE A | BOOKMAN THOMAS; JULIE /TR | 46806 120TH ST E | LANCASTER | CA | 93535-8732 |
| BORDEN DAVID J / BORDEN ; AVADIAN /TR | 14720 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3436 |
| BOWIE ZELMA J / BOWIE VERNON L | 47644 40TH ST W | | LANCASTER | CA | 93536-9569 |
| BOWMAN RYAN H / BOWMAN KAREN E | 40820 SLATE CT | | PALMDALE | CA | 93551-1805 |
| BOYD WILLIAM R / BOYD PAMELA S | 35625 LEMBO LN | | PALMDALE | CA | 93550-9233 |
| BRADFORD GAGE | 24303 CHAPARRAL AVE | | BORON | CA | 93516-1307 |
| BRANCH DANIEL J / BRANCH ROSEMARIE | 12410 LANCASTER RD | | LANCASTER | CA | 93536-9013 |
| BRANDON CHRETIEN | 8306 WILSHIRE BLVD STE 1812 | | BEVERLY HILLS | CA | 90211-2382 |
| BRANDON FORD | 3501 JAMBOREE RD | | NEWPORT BEACH | CA | 92660-2939 |
| BRAULIO PINA | 24125 TAMARISK AVE | | BORON | CA | 93516-1345 |
| BRECKENRIDGE CARL / BRECKENRIDGE FAMILY | 5640 W AVENUE A | | ROSAMOND | CA | 93560-7125 |
| BRENDA REEDER | 26855 ANDERSON ST | | BORON | CA | 93516-1507 |
| BRENDA SABORIO | PO BOX 56178 | | SHERMAN OAKS | CA | 91413-1178 |
| BRENDA WILSON | 884 RUTH DR | | PLEASANT HILL | CA | 94523-1918 |
| BRIAN BENNETT | 12079 HOYT ST | | SYLMAR | CA | 91342-6442 |
| BRIAN COLEMAN | PO BOX 751 | | PEARBLOSSOM | CA | 93553-0751 |
| BRIAN DAVIES | PO BOX 10 | | VALYERMO | CA | 93563-0010 |
| BRIAN ELDRIDGE | 1000 TECHNOLOGY DR MS 314 | | O FALLON | MO | 63368-2239 |
| BRIAN GREGORY | 10735 LEONA AVE | | LEONA VALLEY | CA | 93551-7304 |
| BRIAN LOGAN | 31969 EMERALD LN | | CASTAIC | CA | 91384-3102 |
| BRIAN LUEDTKE | 2148 58TH ST W | | ROSAMOND | CA | 93560-6976 |
| BRIAN VILLALVA | 4566 E AVENUE J | | LANCASTER | CA | 93535-8230 |
| BRIDGET KEOGH | 15635 FERNVIEW ST | | WHITTIER | CA | 90604-3338 |
| BRIGGS JOEL E / BRIGGS PATRICIA S | PO BOX 8127 | | LANCASTER | CA | 93539-8127 |
| BRIOSO JOSE | 45920 47TH ST E | | LANCASTER | CA | 93535-7725 |
| BRISSON KERRY; CHERIE | BRISSON K J; C A /TR | 45442 70TH ST W | LANCASTER | CA | 93536-8327 |
| BRITTANY ALBRECHTA | 235 CAGEL ST | | ROSAMOND | CA | 93560-6905 |
| BROC JOB | 24348 JOSHUA AVE | | BORON | CA | 93516-1356 |
| BROCK FERGUSSON | 25749 DINKEY AVE | | LANCASTER | CA | 93536-9612 |
| BRODEK TERRY SR | 6545 E AVENUE H | | LANCASTER | CA | 93535-7803 |
| BROFFEL ROBERT | 11201 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4219 |
| BROS COOK | PO BOX 94303 | | PASADENA | CA | 91109-4303 |
| BROWN ARBIE A / BROWN KATHLEEN | 50137 40TH ST W | | LANCASTER | CA | 93536-9505 |
| BRUCE ALLEN | 9401 NALL AVE STE 202 | | PRAIRIE VILLAGE | KS | 66207-2508 |
| BRUCE DRAKE | 1335 FELICITA LN | | ESCONDIDO | CA | 92029-6631 |
| BRUCE GARY | PO BOX 580 | | ROSAMOND | CA | 93560-0580 |
| BRUCE HAILSTONE | 5008 W AVENUE L | | QUARTZ HILL | CA | 93536-4339 |

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| BRUCE HASS | 1055 EL MEDIO AVE | | PACIFIC PLSDS | CA | 90272-2420 |
| BRUCE NELSON | PO BOX 554 | | BORON | CA | 93596-0554 |
| BRUCE PAXTON | 40254 17TH ST W | | PALMDALE | CA | 93551-3213 |
| BRUCE SILMON | PO BOX 9336 | | CANOGA PARK | CA | 91309-0336 |
| BRUCE STEWART | 26032 TOURELLE PL | | VALENCIA | CA | 91355-1995 |
| BRUTON MYRTICE | 46400 120TH ST E | | LANCASTER | CA | 93535-8730 |
| BRYAN HICKS | 6107 SWEETSER RD | | ROSAMOND | CA | 93560-6573 |
| BRYAN LA MOUREAUX | 24427 JOSHUA AVE | | BORON | CA | 93516-1326 |
| BRYAN OLGIN | 26967 PATTERSON RD | | LEBEC | CA | 93243 |
| BUCKALLEW MONTY R | 37134 THE GRVS | | PALMDALE | CA | 93551-6232 |
| BUDD CHRIS / BUDD JULIE | 50725 70TH ST W | | LANCASTER | CA | 93536-9578 |
| BUDI KUSNOTO | 1246 S STATE ST | | CHICAGO | IL | 60605-2405 |
| BUJULIAN BROTHERS INC | 291 N 6TH AVE | | KINGSBURG | CA | 93631-9425 |
| BULMARO SANCHEZ | 6180 EAST AVENUE E | | LANCASTER | CA | 93535 |
| BUNNY BROWN | 13445 FRAN ST | | NORTH EDWARDS | CA | 93523-3424 |
| BURCH BRUCE / COREEN SAVIKKO | 20538 E AVENUE Q12 | | PALMDALE | CA | 93591-4503 |
| BURGESS RUSSELL A; LORI A | BURGESS FAMILY | 40806 COBBLESTONE CT | PALMDALE | CA | 93551-1849 |
| BURNETT REALTY INC TR | 6090 SEPULVEDA BLVD STE 250 | | CULVER CITY | CA | 90230-6410 |
| BURTON BROS INC | 9120 SAN JUAN PL | | LA MESA | CA | 91941-5644 |
| BURTON WHITE | 6409 SWEETSER RD | | ROSAMOND | CA | 93560-6355 |
| C JENKINS | 6465 SWEETSER RD | | WILLOW SPRINGS | CA | 93560-6355 |
| C KLECHEFSKI | 1112 LAKEMOOR DR | | SAINT PAUL | MN | 55129-5307 |
| CALANDRI JOHN ; S 1992 TRUST | 40445 27TH ST W | | PALMDALE | CA | 93551-2402 |
| CALANDRI PARTERSHIP | 6135 W AVENUE M8 | | PALMDALE | CA | 93551-1608 |
| CALDERA JOSE J | 48601 265TH ST W | | LANCASTER | CA | 93536-9093 |
| CALDWELL DAVID W / CALDWELL MARIAN F | 44240 MUNIZ RANCH RD | | LAKE HUGHES | CA | 93532 |
| CALER ROBERT | 49225 45TH ST W | | LANCASTER | CA | 93536-9507 |
| CALIFORNIA PORTLAND CEMENT CO | 2025 E FINANCIAL WAY | | GLENDORA | CA | 91741-4692 |
| CALKINS | PO BOX 371 | | ROSAMOND | CA | 93560-0371 |
| CALL GREGORY B / CALL SHELMADINE | 26147 E AVENUE U10 | | LLANO | CA | 93544-1586 |
| CALLIE MURPHY | PO BOX 334 | | ROSAMOND | CA | 93560-0334 |
| CALLIS TRACY L / WARE LEON II | 40810 SILTSTONE CT | | PALMDALE | CA | 93551-1853 |
| CALVERT JOHN M / CALVERT CHRISTINE M | 19460 LANCASTER RD | | LANCASTER | CA | 93536-9022 |
| CALVIN DUNCAN | 13011 CIMARRON AVE | | GARDENA | CA | 90249-1739 |
| CALVIN GUMS | 326 RUBERTA AVE | # A | GLENDALE | CA | 91201-2749 |
| CAMDEN KNIGHT | 44331 36TH ST W | | LANCASTER | CA | 93536-6224 |
| CAMELLIA TRUST | PO BOX 3836 | | CHATSWORTH | CA | 91313-3836 |
| CAMERON PROPERTIES INC | 973 E BADILLO ST STE A | | COVINA | CA | 91724-2947 |
| CAMERON PROPERTIES INC | 973 E BADILLO ST STE A | | COVINA | CA | 91724-2947 |
| CAMPOS JULIO | 23410 E AVENUE Z | | LLANO | CA | 93544 |
| CANDACE CASTELLANOS | PO BOX 940 | | WELDON | CA | 93283-0940 |
| CANDACE DEPONTE | 2763 W AVENUE L PMB 200 | | LANCASTER | CA | 93536-4074 |
| CANDELARIO CALVILLO | 12160 CLARETTA ST | | SYLMAR | CA | 91342-6006 |
| CANDICE GERBER | 5714 COUNTY ROAD 502 | | BAYFIELD | CO | 81122-9007 |
| CARCAMO FELIX R / HERNANDEZ DAMARIS Y | 8363 W AVENUE I | | LANCASTER | CA | 93536-8106 |
| CARDENAS RICARDO / CARDENAS IRMA | 4750 HALEN ST | | PALMDALE | CA | 93552-3740 |
| CARI SCHNARRENBERGER | 7830 GASKELL RD | | ROSAMOND | CA | 93560-7276 |
| CARL MELVIN | 165 GRANDE VISTA ST | | OAK VIEW | CA | 93022-9709 |
| CARLETON REYNOLDS | 29867 WISTERIA VALLEY RD | | SANTA CLARITA | CA | 91387-1942 |
| CARLO SERRATO | 37227 GIAVON ST | | PALMDALE | CA | 93552-4756 |
| CARLOS ACOSTA | 43019 57TH ST W | | LANCASTER | CA | 93536-5652 |
| CARLOS ESCOBAR | 8807 SOPHIA AVE | | NORTH HILLS | CA | 91343-4719 |
| CARLOS IBARRA | 1201 71ST ST W | | ROSAMOND | CA | 93560-7033 |
| CARLOS JOSE / CARLOS BERTHA | 40051 200TH ST E | | PALMDALE | CA | 93591-3900 |
| CARLOS LANTING | 18349 SUMMER AVE | | ARTESIA | CA | 90701-5526 |
| CARLOS MELGOZA | 8963 CAYUGA AVE | | SUN VALLEY | CA | 91352-2412 |
| CARLOS NUNEZ | PO BOX 1115 | | ROSAMOND | CA | 93560-1115 |
| CARLOS RAMIREZ | 30900 106TH ST E | | LITTLEROCK | CA | 93543-3661 |
| CARLOS TABLAS | 5120 RELA WAY W | | QUARTZ HILL | CA | 93536-2509 |
| CARLOS VIVAS | 13505 SATICOY ST | APT 1 | PANORAMA CITY | CA | 91402-6437 |
| CARLSON SHARRON L | 28659 LAURIE LN | | PALMDALE | CA | 28659 |
| CARLSON STEPHEN W / CARLSON VIRGINIA C | 9820 CIMA MESA RD | | JUNIPER HILLS | CA | 93543-3634 |
| CARLTON PENN | 2346 W AVENUE N8 | | PALMDALE | CA | 93551-2373 |
| CARMELITE SISTERS OF THE | 920 E ALHAMBRA RD | | ALHAMBRA | CA | 91801 |
| CARMEN DOMINGUEZ | 47904 30TH ST E | | LANCASTER | CA | 93535-7613 |
| CARMEN HERNANDEZ | 511 MOSS ST | | CHULA VISTA | CA | 91911-1706 |
| CARMEN HOWARD | 42911 DENVIEW DR | | LAKE HUGHES | CA | 93532-1336 |
| CAROL BAIRD | 24147 SAGE AVE | | BORON | CA | 93516-1331 |
| CAROL BASS | 445 HAMILTON AVE FL 8 | | WHITE PLAINS | NY | 10601-1807 |
| CAROL BIEVER | 4626 N CALVADOS AVE | | COVINA | CA | 91722-2756 |
| CAROL COMPTON | 10721 PINECREST MESA RD | | LITTLEROCK | CA | 93543-4226 |
| CAROL HILL | 22853 W AVENUE D11 | | LANCASTER | CA | 93536-9110 |
| CAROL HILL | 31858 CASTAIC RD # 175 | | CASTAIC | CA | 91384-3943 |
| CAROL MANNINO | 5206 VALLEY VIEW RD | | RANCHO PALOS VERDES | CA | 90275-5060 |
| CAROL MORRIS | 47930 26TH ST E | | LANCASTER | CA | 93535-7605 |
| CAROL MORRIS | 2513 100TH ST W # 3 | | ROSAMOND | CA | 93560-7010 |
| CAROL MORRIS | 47930 26TH ST E | | LANCASTER | CA | 93535-7605 |
| CAROL NELSON | 24437 TAMARISK AVE | | BORON | CA | 93516-1351 |
| CAROL POLLOCK | 1250 SUGARBUSH DR | | VISTA | CA | 92084-7462 |
| CAROL ROBERTS | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| CAROL ROKEY | 1801 65TH ST W | | ROSAMOND | CA | 93560-6521 |
| CAROL TANNER | 7943 CATHY AVE | | ROSAMOND | CA | 93560-8204 |
| CAROL ZIEHLER | 11936 WICKS ST | | SUN VALLEY | CA | 91352-1907 |
| CAROLE WYATT | 7834 DINKEY AVE | | ROSAMOND | CA | 93560-7053 |
| CAROLINE LENHART | 1219 W AVENUE I | | LANCASTER | CA | 93534-2247 |
| CAROLYN ASENDORF | PO BOX 720140 | | PINON HILLS | CA | 92372-0140 |
| CAROLYN FORTE | 527 FRANKLIN PL | | MONROVIA | CA | 91016-1519 |

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|---|---|---|---|---|---|
| CAROLYN HORTON | 12018 ALLIN ST | | CULVER CITY | CA | 90230-5803 |
| CARPENTER PRESTON H | 40000 140TH ST E | | PALMDALE | CA | 93591-1602 |
| CARREON TOMAS M / CARREON MARY E | 46715 121ST ST E | | LANCASTER | CA | 93535-8733 |
| CARREON TOMAS M JR / CARREON MARY E | 6210 E AVENUE E | | LANCASTER | CA | 93535-7854 |
| CARROLL DAUGHERTY | 16115 COOLWATER AVE | | PALMDALE | CA | 93591-3043 |
| CARROLL WETZEL | 7738 BACKUS RD | | MOJAVE | CA | 93501-7162 |
| CARTUS FINANCIAL CORPORATION | 27271 LAS RAMBLAS | | MISSION VIEJO | CA | 92691-6386 |
| CARY SEARCY | 24100 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| CASEY ALESSO | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| CASEY ALESSO | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| CASHBAUGH TRUST | 1290 100TH ST W | | ROSAMOND | CA | 93560-7266 |
| CASILLAS ALBERTO / CASILLAS YOLANDA | 6358 E AVENUE E | | LANCASTER | CA | 93535-7845 |
| CASTANEDA ROBERTO / CASTANEDA GUADALUPE | 7057 W AVENUE H | | LANCASTER | CA | 93536-8100 |
| CASTELLANOS ARNALDO E | CASTELLANOS NEYDA | 40823 SLATE CT | PALMDALE | CA | 93551-1805 |
| CASTELLANOS MANUEL G | CASTELLANOS MARY F | 20310 PEARBLOSSOM HWY | LLANO | CA | 93544-1406 |
| CASTILLE THERESE M | 4638 E AVENUE H | | LANCASTER | CA | 93535-7718 |
| CATALINA DIAZ | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| CATEY HAROLD | 24463 JOSHUA AVE | | BORON | CA | 93516-1326 |
| CATHERINE GUTIERREZ | 2113 60TH ST W | | ROSAMOND | CA | 93560-6560 |
| CATHERINE MAXWELL | 5784 FELSITE AVE | | ROSAMOND | CA | 93560-6451 |
| CATHERINE MONTANO | 5872 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560-6917 |
| CATHERINE MORRIS | PO BOX 8794 | | EMERYVILLE | CA | 94662-0794 |
| CATHERINE TOMINAGA | 6368 N WILLARD AVE | | SAN GABRIEL | CA | 91775-1833 |
| CATHI STRADER | 23328 CUESTPORT DR | | VALENCIA | CA | 91354-1926 |
| CATHY DRAEGER | 9531 WARBURTON DR | | HUNTINGTN BCH | CA | 92646-3629 |
| CATHY HOUSE | 5491 TEHACHAPI WILLOW SPRINGS RD | | ROSAMOND | CA | 93560-7504 |
| CATHY MORENO | 5980 VALLEY SAGE RD | | ACTON | CA | 93510-1027 |
| CATHY ROBERG | PO BOX 902245 | | PALMDALE | CA | 93590-2245 |
| CAUDILL JANICE E | 17020 E AVENUE S4 | | LLANO | CA | 93544-1415 |
| CECIL MC DONALD | 2316 67TH ST W | | ROSAMOND | CA | 93560-7230 |
| CECILIA ELLIOTT | 7435 35TH ST W | | MOJAVE | CA | 93501-7304 |
| CECILIA ESTEBAN | 9407 BURNET AVE | | NORTH HILLS | CA | 91343-2306 |
| CECILIA HSU | 26 SANTA CRUZ | | ROLLING HILLS ESTATES | CA | 90274-5402 |
| CECILIA MARCIANO | 2696 SASHA CT | | SIMI VALLEY | CA | 93063-2245 |
| CECILIA MOON | 25269 THE OLD RD STE B | | STEVENSON RANCH | CA | 91381-2202 |
| CECILIA TOVAR | 403 GRISWOLD AVE | | SAN FERNANDO | CA | 91340-2473 |
| CEDRIC HASSON | 43031 FAIRLEE DR | | LANCASTER | CA | 93536-4605 |
| CELESTE BURTON | PO BOX 7 | | HASTINGS | OK | 73548-0007 |
| CELIA CONTRERAS | 23588 W AVENUE D # D | | LANCASTER | CA | 93536-9259 |
| CELIA ELIZALDE | 26042 E AVENUE U8 | | LLANO | CA | 93544-1584 |
| CELIA EYLER | 1155 71ST ST W | | ROSAMOND | CA | 93560-7032 |
| CELINA MOLINA | 23120 W AVENUE C | | LANCASTER | CA | 93536-9735 |
| CELINDA CORDS | 2899 DAVENPORT ST | | ROSAMOND | CA | 93560-6921 |
| CENTRAL MORTGAGE COMPANY | 801 JOHN BARROW RD STE 1 | | LITTLE ROCK | AR | 72205-6511 |
| CESAR QUEBRAL | 26138 SALINGER LN | | STEVENSON RANCH | CA | 91381-1107 |
| CESENA MICHAEL G / WALTERS ANNA T | 40818 SILTSTONE CT | | PALMDALE | CA | 93551-1853 |
| CHAI JOTIKASTHIRA | 28304 MOUNT STEPHEN AVE | | CANYON CNTRY | CA | 91387-3141 |
| CHAKO ANDRE L ; MARGARET / CHAKO FAMILY | 120 E AVENUE F10 | | LANCASTER | CA | 93535-6407 |
| CHALFONT TRUST | PO BOX 3836 | | CHATSWORTH | CA | 91313-3836 |
| CHANDRA WARFIELD | 39797 AVENIDA MIGUEL OESTE | | MURRIETA | CA | 92563-5294 |
| CHANDRIKA DESILVA | 18924 STRATHERN ST | | RESEDA | CA | 91335-1122 |
| CHANEY PAUL R | 152 E AVENUE F10 | | LANCASTER | CA | 93535-6407 |
| CHANEY TROY T | 21640 E AVENUE O | | PALMDALE | CA | 93591-4100 |
| CHANG FAMILY TRUST | 3671 W 6TH ST | | LOS ANGELES | CA | 90020-3026 |
| CHANG JAE Y | 29916 104TH ST E | | LITTLEROCK | CA | 93543-3615 |
| CHANTHAN EK | 250 E JOHN CARPENTER FWY STE 300 | | IRVING | TX | 75062-2710 |
| CHANTHAN EK | 801 JOHN BARROW RD STE 1 | | LITTLE ROCK | AR | 72205-6599 |
| CHAO PAO TSAI / WEI CHING | 44713 31ST ST W | | LANCASTER | CA | 93536-8368 |
| CHARISSE CROSBY | 6672 HOLIDAY AVE | | ROSAMOND | CA | 93560-6569 |
| CHARITO GERMONO | 744 LINCOLN AVE UNIT A | | ALAMEDA | CA | 94501-3314 |
| CHARLA ANDERSON | 2401 W 46TH ST | | ROSAMOND | CA | 93560 |
| CHARLA TAYLOR | 2550 E AVENUE I SPC 110 | | LANCASTER | CA | 93535-1024 |
| CHARLANNE TAYLOR | PO BOX 1450 | | ROSAMOND | CA | 93560-1450 |
| CHARLENE LANE | 41031 40TH ST W | | PALMDALE | CA | 93551-1246 |
| CHARLENE LANE | 41031 40TH ST W | | PALMDALE | CA | 93551-1246 |
| CHARLENE LANE TR | 42220 10TH ST W STE 101 | | LANCASTER | CA | 93534-7075 |
| CHARLENE LYELL | PO BOX 161 | | HARTVILLE | MO | 65667-0161 |
| CHARLENE MELCHERS | 2941 60TH ST W | | ROSAMOND | CA | 93560-6386 |
| CHARLES AMENTO | PO BOX 1121 | | NORTH EDWARDS | CA | 93523-1121 |
| CHARLES ANYADIKE | 537 S FLOWER ST | APT 2 | INGLEWOOD | CA | 90301-5596 |
| CHARLES CRAIG | PO BOX 2553 | | ROSAMOND | CA | 93560-2553 |
| CHARLES CUMMINGS | HCR 3 BOX 226 | | ROSAMOND | CA | 93560 |
| CHARLES FRANCOEUR | 3334 LONGRIDGE TER | | SHERMAN OAKS | CA | 91423-4932 |
| CHARLES HOUSTON | 5301 60TH ST W | | ROSAMOND | CA | 93560-6265 |
| CHARLES JOHNSON | 24373 TAMARISK AVE | | BORON | CA | 93516-1349 |
| CHARLES KELLEY | 24218 CHAPARRAL AVE | | BORON | CA | 93516-1306 |
| CHARLES KOPENEC | 2326 FARGO ST | | LOS ANGELES | CA | 90039-3127 |
| CHARLES LANE | 207 127TH ST W | | ROSAMOND | CA | 93560-8202 |
| CHARLES LAWRENCE | PO BOX 48054 | | WATAUGA | TX | 76148-0054 |
| CHARLES LENNOX | PO BOX 7 | | PEARBLOSSOM | CA | 93553-0007 |
| CHARLES MATHEWS | 5394 61ST ST W | | ROSAMOND | CA | 93560-6533 |
| CHARLES NORRIS | 1024 DELAWARE RD | | BURBANK | CA | 91504-3025 |
| CHARLES PEGS | 4859 W SLAUSON AVE STE 279 | | LOS ANGELES | CA | 90056-3209 |
| CHARLES SCARLETT | 4245 MOUNT VERNON DR | | LOS ANGELES | CA | 90008-4819 |
| CHARLES SCOTT | 7330 GILA CT | | PALMDALE | CA | 93551-4719 |
| CHARLES TAPIA | 21083 PLACERITA CANYON RD | | NEWHALL | CA | 91321-1924 |
| CHARLES THOMAS | 24264 TAMARISK AVE | | BORON | CA | 93516-1348 |

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| CHARLES TOWLES | 6515 S VERMONT AVE | | LOS ANGELES | CA | 90044-3627 |
| CHARLOTTE BREED | 1760 100TH ST W | | ROSAMOND | CA | 93560 |
| CHARLOTTE MANUELL | 24740 MILL VALLEY WAY | | CARSON | CA | 90745-6454 |
| CHARLOTTE STOLLAR | 7527 W AVENUE L11 | | LANCASTER | CA | 93536-7387 |
| CHASE JPMORGAN | 1100 VIRGINIA DR | | FORT WASHINGTON | PA | 19034-3204 |
| CHAVEZ EFREN / CHAVEZ LUZ | 18192 E AVENUE O | | PALMDALE | CA | 93591-3804 |
| CHENHUANG ZHENRU | 2075 WOODSIDE RD | | REDWOOD CITY | CA | 94061-3338 |
| CHERISA SAUNDERS | 3605 LONG BEACH BLVD # 12 | | LONG BEACH | CA | 90807-4013 |
| CHERNG SU | 9927 OLIVE CT | | TEMPLE CITY | CA | 91780-3200 |
| CHERRIE HASTINGS | 6359 SWEETSER RD | | ROSAMOND | CA | 93560-6555 |
| CHERYL HORST | 3170 N BUTTERCUP CIR | | FREDERICK | CO | 80516-9456 |
| CHERYL HOST | 3170 N BUTTERCUP CIR | | FREDERICK | CO | 80516-9456 |
| CHERYL MILLER | 12401 EL MIRAGE ST | | BORON | CA | 93516-1318 |
| CHERYL TACK | 1197 HUDSPETH ST | | SIMI VALLEY | CA | 93065-4559 |
| CHERYL WATSON | PO BOX 1025 | | MOJAVE | CA | 93502-1025 |
| CHESTER WIENCEK | PO BOX 531883 | | LOS ANGELES | CA | 90053-1883 |
| CHEVY CHASE BK FSB | 6151 CHEVY CHASE DR | | LAUREL | MD | 20707-2918 |
| CHIEN LEE | PO BOX 741156 | | LOS ANGELES | CA | 90004-9156 |
| CHIN HEI KYUNG | ATTN: KYUNG CHIN HEI | PO BOX 825 | AZUSA | CA | 91702-0825 |
| CHINWE UJU | 11733 KILLIMORE AVE | | PORTER RANCH | CA | 91326-1511 |
| CHOR HUIE | 701 N STORY PL | | ALHAMBRA | CA | 91801-1555 |
| CHRISTIAN CZUZAK | 6108 HOLIDAY AVE | | ROSAMOND | CA | 93560-6519 |
| CHRISTIAN MANGUS | 5465 62ND ST W | | ROSAMOND | CA | 93560-6254 |
| CHRISTINA BAUER | 11420 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4218 |
| CHRISTINA CALKINS | 9645 BUCKHORN AVE | | ROSAMOND | CA | 93560-7529 |
| CHRISTINA DAY | 25907 CHERRYHILL DR | | BORON | CA | 93516-1204 |
| CHRISTINA IDLEMAN | 601 5TH AVE | | SCOTTSBLUFF | NE | 69361-3581 |
| CHRISTINA MAGDALENO | 2075 BAYWOOD CT | APT 157 | LANCASTER | CA | 93536-7291 |
| CHRISTINA SCOTT | 2263 BUSS CT | | ROSAMOND | CA | 93560-5939 |
| CHRISTINA SPEED | 818 60TH ST W | | ROSAMOND | CA | 93560-6910 |
| CHRISTINA WEST | 9420 RESEDA BLVD BOX 246 | | NORTHRIDGE | CA | 91324-2932 |
| CHRISTINE BURDETTE | 13677 W AVENUE A | | ROSAMOND | CA | 93560-7270 |
| CHRISTINE DUKE | 1037 E PROVIDENCIA AVE | | BURBANK | CA | 91501-1544 |
| CHRISTINE MARGIE | 115 90TH ST W | | ROSAMOND | CA | 93560-7019 |
| CHRISTINE SMITH | 10735 LEONA AVE | | LEONA VALLEY | CA | 93551-7304 |
| CHRISTINE WONG | 1109 RUMBOLD ST | | GARDENA | CA | 90248-3353 |
| CHRISTOPER CATO | 1326 100TH ST W | | ROSAMOND | CA | 93560-7267 |
| CHRISTOPHER | 10603 PENROSE ST | | SUN VALLEY | CA | 91352-2014 |
| CHRISTOPHER ALONSO | 123 CONGRESS ST | | ORANGE | MA | 01364-1640 |
| CHRISTOPHER HILL | 31858 CASTAIC RD # 175 | | CASTAIC | CA | 91384-3943 |
| CHRISTOPHER JOHNSTON | PO BOX 1226 | | CARDIFF BY THE SEA | CA | 92007-7226 |
| CHRISTOPHER KILLIAN | 42257 6TH ST W STE 305 | | LANCASTER | CA | 93534-7150 |
| CHRISTOPHER KUTELIS | 6373 WILLOW AVE | | ROSAMOND | CA | 93560-6575 |
| CHRISTOPHER LINSTRUTH | 1752 E AVENUE J # 347 | | LANCASTER | CA | 93535-4474 |
| CHRISTOPHER MACKEN | PO BOX 875 | | NORTH EDWARDS | CA | 93523-0875 |
| CHRISTOPHER MOWRY | 800 70TH ST W | | ROSAMOND | CA | 93560-7060 |
| CHRISTOPHER NELSON | 40144 174TH ST E | | PALMDALE | CA | 93591-3123 |
| CHRITOPHER BAUSCH | 4450 37TH ST WEST | | LANCASTER | CA | 93536 |
| CHU CHI CHEN | 3807 SW CHELMSFORD RD | | TOPEKA | KS | 66610-1448 |
| CHUNG CHAN K | 33329 260TH ST E | | LLANO | CA | 93544 |
| CHUNG CHAR | 1115 JARROW AVE | | HACIENDA HTS | CA | 91745-2020 |
| CHUNG MONICA Y | 48275 224TH ST W | | LANCASTER | CA | 93536-9104 |
| CHURCH OF JESUS CHRIST OF | 50 E NORTH FL 22 | | SALT LAKE CITY | UT | 84150-0001 |
| CILK BYERS | 13210 POCONO CT | | MORENO VALLEY | CA | 92555-2492 |
| CISSELL JOHN M; SANDRA F | CISSELL TRUST | 46665 70TH ST E | LANCASTER | CA | 93535-7834 |
| CIT GROUP CONSUMER FINANCE INC | 1643 76TH ST W | | ROSAMOND | CA | 93560-7375 |
| CITIBANK TR | 800 STATE HIGHWAY 121 BYP | | LEWISVILLE | TX | 75067-4180 |
| CITIGROUP GLOBAL MARKETS REALTY | 3476 STATEVIEW BLVD | | FORT MILL | SC | 29715-7203 |
| CITIMORTGAGE INC | 2866 58TH ST W | | ROSAMOND | CA | 93560-6502 |
| CITY NATIONAL BANK TR ET AL | 1950 AVENUE OF THE STARS STE 200 | | LOS ANGELES | CA | 90067-4606 |
| CLARABELLE MERCADO | 20736 COMMUNITY ST | | WINNETKA | CA | 91306-1502 |
| CLARENCE ALEXANDER | 38227 230TH ST E | | PALMDALE | CA | 93591-4705 |
| CLARENCE HUMPHREYS | 36547 ROZALEE DR | | PALMDALE | CA | 93550-9313 |
| CLARK | 3322 CASTERA AVE | | GLENDALE | CA | 91208-1610 |
| CLARK JULIUS J | 18531 E PALMDALE BLVD | | PALMDALE | CA | 93591-4308 |
| CLAUDE ADKINS | PO BOX 351 | | BORON | CA | 93596-0351 |
| CLAUDE MACRI | 1326 DANIELSON RD | | SANTA BARBARA | CA | 93108-2807 |
| CLAUDE MCFERGUSON | PO BOX 5864 | | LANCASTER | CA | 93539-5864 |
| CLAUDE STEEN | 1931 FELICIDAD DR | | LAKE HAVASU CITY | AZ | 86404-1000 |
| CLAUDIA MORAN | 13577 OSBORNE ST | | ARLETA | CA | 91331-5525 |
| CLAWSON RUSSELL M / CLAWSON TRUST | 5329 W AVENUE C14 | | LANCASTER | CA | 93536-9512 |
| CLAYTON FAIRCHILD | 24238 JOSHUA AVE | | BORON | CA | 93516-1323 |
| CLAYTON NICHOLS | PO BOX 257 | | ROSAMOND | CA | 93560-0257 |
| CLAYTON WOODHULL | PO BOX 2873 | | GRANITE BAY | CA | 95746-2873 |
| CLIFTON OWENS | 24285 SAGE AVE | | BORON | CA | 93516-1333 |
| CLINTON HUTH | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| CLINTON ROSEMOND | 4255 W 64TH ST | | LOS ANGELES | CA | 90043-3519 |
| CLYDE FISHER | 2203 60TH ST W | | ROSAMOND | CA | 93560-6507 |
| COBB CURTIS R | 48052 110TH ST W | | LANCASTER | CA | 93536-9310 |
| COCKERILL CYRIL / COCKERILL JACQUELINE A | 18244 W AVENUE E4 | | LANCASTER | CA | 93536-9004 |
| CODY WILLIAMS | 24403 JOSHUA AVE | | BORON | CA | 93516-1326 |
| COFFMAN REVOCABLE TRUST | ATTN: JUDYTH COFFMAN | 12882 GASKELL RD | ROSAMOND | CA | 93560-7095 |
| COGENT PROPERTIES LLC | 7540 CANYON MEADOW CIR APT C | | PLEASANTON | CA | 94588-4713 |
| COLLATERAL RELIEF SERVICING LL | 2727 W ALAMEDA AVE | | BURBANK | CA | 91505-4404 |
| COLLEN FRANCIS | 28542 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553 |
| COLLINS AKINSOLA | 7551 BELMAR AVE | | RESEDA | CA | 91335-2428 |
| COLMENARES JUAN M | 2001 ELM ST | | ROSAMOND | CA | 93560-6028 |

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|---|---|---|---|---|---|
| COLOMA ONELIA A / COLOMA EDWIN H | 3623 W AVENUE K10 | | LANCASTER | CA | 93536-4928 |
| COLVIN ELI | PO BOX 29 | | VALYERMO | CA | 93563-0029 |
| CONCEPCION AUTRAND | 529 DE LA VINA ST | | SANTA BARBARA | CA | 93101-3419 |
| CONCETTO VECCHIO | 931 NEW YORK DR | | ALTADENA | CA | 91001-3155 |
| CONNELLY JOHN L | 30837 235TH ST E | | LLANO | CA | 93544-1533 |
| CONNELLY PATRICK R / CONNELLY SUSAN F | 48004 190TH ST W | | LANCASTER | CA | 93536-9025 |
| CONNIE BERTRAM | 12993 SANTA PAULA OJAI RD | | SANTA PAULA | CA | 93060-9624 |
| CONNIE LAEZZA | 25749 DINKEY AVE | | LANCASTER | CA | 93536-9612 |
| CONRADO BRUCE | 3456 W DEVON AVE | | LINCOLNWOOD | IL | 60712-1316 |
| CONSTANCE FARMER | 6720 GASKELL RD | | ROSAMOND | CA | 93560-7132 |
| CONWAY SHERYL J | 43034 FAIRLEE DR | | LANCASTER | CA | 93536-4605 |
| COOK | 24138 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| COOK | 24138 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| COOK JEANMARIE | 49250 52ND ST W | | LANCASTER | CA | 93536-9509 |
| COOK LILIA | 10724 WILSHIRE BLVD APT 606 | | LOS ANGELES | CA | 90024-4461 |
| COOKE CITY RACEWAY INC | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| COOKSON | 6848 105TH ST W | | ROSAMOND | CA | 93560-6932 |
| CORA DIXON | PO BOX 902111 | | PALMDALE | CA | 93590-2111 |
| CORAL ZEDICHER | 5970 GASKELL RD | | ROSAMOND | CA | 93560-6912 |
| CORALEE REUTER | 7362 W AVENUE G | | LANCASTER | CA | 93536-8618 |
| COREY JONES | 9235 LEONA AVE | | LEONA VALLEY | CA | 93551-7331 |
| CORINA TOY | 35591 RAINLEAF CT | | ELIZABETH | CO | 80107-7855 |
| CORNELIO DULDULAO | 19 W 52ND ST | | LONG BEACH | CA | 90805-5817 |
| CORP OF THE PRESIDING BISHOP OF | 50 E NORTH FL 22 | | SALT LAKE CITY | UT | 84150-0001 |
| CORREA RICARDO / CORREA INGRID L | 1300 S FIGUEROA ST | APT 122 | LOS ANGELES | CA | 90015-2802 |
| CORRELL BUD R / CORRELL KATHLEEN R | 28538 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3423 |
| CORUCE PROPERTIES LLC | 20538 E AVENUE Q12 | | PALMDALE | CA | 93591-4503 |
| COUNTRYWIDE HOME LOANS INC | 1757 TAPO ST | | SIMI VALLEY | CA | 93063 |
| COURTNEY DETRA D / COURTNEY WALTER | 18608 W AVENUE E4 | | LANCASTER | CA | 93536-9049 |
| COWLES DEBRA A / COWLES RICHARD L | 3013 E AVENUE H | | LANCASTER | CA | 93535-1600 |
| COX TIM H / COX SHARON M | 40823 COBBLESTONE CT | | PALMDALE | CA | 93551-1850 |
| CRAIG SMITH | 6848 W AVENUE D8 | | LANCASTER | CA | 93536-8819 |
| CRAIG VAN DAM | 12715 BOBTAIL LN | | ROSAMOND | CA | 93560-7059 |
| CRAIG WHEELOCK | 9349 E AVENUE T12 | | LITTLEROCK | CA | 93543-3526 |
| CRAIG WILLIAMS | 19507 ERMINE ST | | CANYON CNTRY | CA | 91351-1130 |
| CRAWFORD JEFFREY S / CRAWFORD TARALI I | 28600 DEVILS PUNCH BOWL RD | | PEARBLOSSOM | CA | 93553-3432 |
| CRIGLER TIM / CRIGLER RITA | 18649 W AVENUE B8 | | LANCASTER | CA | 93536-9297 |
| CRIS ADVINCULA | 2203 COBBLEHILL PL | | SAN MATEO | CA | 94402-4007 |
| CRITCHLOW ROBERT; BARBARA | CRITCHLOW R; B /TR | 48203 60TH ST W | LANCASTER | CA | 93536-8818 |
| CROWN RENTS OF BAKERSFIELD INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| CRUZ ANTONIO / CRUZ EMMA | 48004 100TH ST E | | LANCASTER | CA | 93535-7908 |
| CRYSTAL ACOSTA | 1197 HUDSPETH ST | | SIMI VALLEY | CA | 93065-4559 |
| CRYSTAL JOB | 24348 JOSHUA AVE | | BORON | CA | 93516-1356 |
| CUBER JODIE M | 34602 165TH ST E | | LLANO | CA | 93544-1112 |
| CUEVA HUMBERTO / CUEVA CLAUDIA | 12462 WEST ST | | GARDEN GROVE | CA | 92840-3838 |
| CUEVAS ROSA / MONTES RAUL C | 6318 W AVENUE A | | LANCASTER | CA | 93536-9590 |
| CUONG DAO | 501 LEONARD AVE | | LAS VEGAS | NV | 89106-2748 |
| CURTIS COBB | 48052 110TH ST W | | LANCASTER | CA | 93536-9310 |
| CURTIS KINNGOTT | PO BOX 2538 | | ROSAMOND | CA | 93560-2538 |
| CURTIS SMITH | 511 W KENDALL ST | | CORONA | CA | 92882-4328 |
| CURTIS WADLEIGH | 12567 SAHARA AVE | | ROSAMOND | CA | 93560-7394 |
| CUTBIRTH CINITHIA A | 17070 FORT TEJON RD | | LLANO | CA | 93544-1302 |
| CYNTHIA COLUMBIA | 1514 CARSON MESA RD | | PALMDALE | CA | 93550-9725 |
| CYNTHIA COTT | 42130 22ND ST W | | QUARTZ HILL | CA | 93536-3311 |
| CYNTHIA DAVIS | 10983 GASKELL RD | | ROSAMOND | CA | 93560-7015 |
| CYNTHIA IRVING | PO BOX 446 | | BORON | CA | 93596-0446 |
| CYNTHIA NELSON | 40144 174TH ST E | | PALMDALE | CA | 93591-3123 |
| CYNTHIA RODRIGUEZ | 28460 AVENUE STANFORD | | VALENCIA | CA | 91355-4856 |
| CYNTHIA SHELDON | PO BOX 1789 | | ROSAMOND | CA | 93560-1789 |
| CYNTHIA WIRT | PO BOX 253 | | LLANO | CA | 93544-0253 |
| CZARNOCKI JOHN C / CZARNOCKI MARIA J | 9116 W IVESBROOK ST | | LANCASTER | CA | 93536-7709 |
| D JAMES | 12335 SIERRA VIEW ST | | BORON | CA | 93516-1341 |
| DAE JI | 8192 REGENCY ST | | LA PALMA | CA | 90623-1928 |
| DAE LEE | 2160 CAMELLIA LN | | FULLERTON | CA | 92833-4906 |
| DAIROLD POTTS | 7531 GASKELL RD | | ROSAMOND | CA | 93560-7028 |
| DALE DRONET | PO BOX 1595 | | ROSAMOND | CA | 93560-1595 |
| DALE GRAHN | 900 UNIVERSITY AVE | | BURBANK | CA | 91504-3034 |
| DALENE GARRETT | 1757 TAPO CANYON RD # 88 | | SIMI VALLEY | CA | 93063-3391 |
| DAN HAKES | 24224 JOSHUA AVE | | BORON | CA | 93516-1323 |
| DAN SMITH | 13129 VOLUNTEER AVE | | NORWALK | CA | 90650-3156 |
| DAN STEFFEY | 1210 W 228TH ST | | ROSAMOND | CA | 93560 |
| DANA DOTSON | 38643 LOUISE LN | | PALMDALE | CA | 93551-5423 |
| DANIEL CASSIDY | PO BOX 324 | | ROSAMOND | CA | 93560-0324 |
| DANIEL CRUZ | 14235 FRIAR ST | | VAN NUYS | CA | 91401-2109 |
| DANIEL FINCH | PO BOX 397 | | GUTHRIE | OK | 73044-0397 |
| DANIEL GEAR | PO BOX 1615 | | ROSAMOND | CA | 93560-1615 |
| DANIEL HOGE | 20722 WHITE ST | | TEHACHAPI | CA | 93561-8713 |
| DANIEL HOLLEN | 44315 ELM AVE | | LANCASTER | CA | 93534-4321 |
| DANIEL JENKINS | 24475 JOSHUA AVE | | BORON | CA | 93516-1326 |
| DANIEL LAIRD | 3419 CARLA AVE | | MOJAVE | CA | 93501-1109 |
| DANIEL LEROY | 9 BRUCEMONT CIR | | ASHEVILLE | NC | 28806-3402 |
| DANIEL MONGIANO | 41902 LOMA VIS | | LANCASTER | CA | 93536-2831 |
| DANIEL MOORE | 12469 EL MIRAGE ST | | BORON | CA | 93516-1354 |
| DANIEL PACHECO | 5731 WILLOW AVE | | ROSAMOND | CA | 93560-6951 |
| DANIEL POTTER | 7828 W AVENUE H | | LANCASTER | CA | 93536-8108 |
| DANIEL RHODEN | PO BOX 810 | | PEARBLOSSOM | CA | 93553-0810 |
| DANIEL ROMO | 9035 E AVENUE T4 | | LITTLEROCK | CA | 93543-2716 |

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|---|---|---|---|---|
| DANIEL SPOOR | PO BOX 2240 | ROSAMOND | CA | 93560-2240 |
| DANIEL STEFFENS | 5138 60TH ST W | ROSAMOND | CA | 93560-6551 |
| DANIEL STERLING | 5788 CHARAN RD | ROSAMOND | CA | 93560-7116 |
| DANIEL TORRES | 21053 E AVENUE R8 | PALMDALE | CA | 93591-4502 |
| DANIEL WALDEN | PO BOX 1910 | ROSAMOND | CA | 93560-1910 |
| DANIELA JOHNSON | 6754 E LOWE AVE | FRESNO | CA | 93727-5823 |
| DANILO BATIMANA | 1828 E COMMONWEALTH AVE | FULLERTON | CA | 92831-4823 |
| DANILO VENTUROLI | PO BOX 633 | PEARBLOSSOM | CA | 93553-0633 |
| DANITA HAWKINSMURPHY | 150 ALLEGHENY AVE | PITTSBURGH | PA | 15202 |
| DANNY CALDWELL | PO BOX 943 | PALMDALE | CA | 93590 |
| DANNY CLOSSER | PO BOX 14506 | IRVINE | CA | 92623-4506 |
| DANNY HALCOMB | 908 60TH ST W | ROSAMOND | CA | 93560-7238 |
| DANNY KIMBLE | 24329 SAGE AVE | BORON | CA | 93516-1335 |
| DANNY MEEK | 24421 TAMARISK AVE | BORON | CA | 93516-1351 |
| DANTE BALDOZ | 4566 WOLVERINE WAY | ANTIOCH | CA | 94531-7677 |
| DARA ENGLISH | 24326 SAGE AVE | BORON | CA | 93516-1336 |
| DARIO BORROEL | 2400 100TH ST W | ROSAMOND | CA | 93560-7080 |
| DARLENE CRISMAN | 3040 JULIAN AVE | LONG BEACH | CA | 90808-4433 |
| DARLENE GJELSVIK | 10557 HAMILTON RD | ROSAMOND | CA | 93560-6936 |
| DARLENE KAEHLER | 6577 HOLIDAY AVE | ROSAMOND | CA | 93560-7098 |
| DARLENE KAEHLER | 6577 HOLIDAY AVE | ROSAMOND | CA | 93560-7098 |
| DARLENE MAGDALENO | 5838 CHARAN RD | ROSAMOND | CA | 93560-7381 |
| DARLENE SMOOT | 5402 COLONY GREEN DR | SAN JOSE | CA | 95123-1469 |
| DARRELL COLLINS WILTON | PO BOX 105 | ROSAMOND | CA | 93560-0105 |
| DARRELL MC KINNEY | 24218 JUNIPER AVE | BORON | CA | 93516-1329 |
| DARREN SCOTT | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| DARRON EDWARDS | PO BOX 5863 | LANCASTER | CA | 93539-5863 |
| DARRYL HILL | 7320 RICHFIELD ST UNIT 105 | PARAMOUNT | CA | 90723-3389 |
| DARRYL HOUSER | 20749 W DUANE LN | WITTMANN | AZ | 85361-5340 |
| DARSOT UMTIAZ | 17801 CRENSHAW BLVD APT 4 | TORRANCE | CA | 90504-4127 |
| DARWIN MC NEIL | 11715 TEHACHAPI WILLOW SPRINGS RD | ROSAMOND | CA | 93560-6940 |
| DARWIN MOE | PO BOX 87 | PEARBLOSSOM | CA | 93553-0087 |
| DAUMANTS BELTE | PO BOX 880 | ROSAMOND | CA | 93560-0880 |
| DAVID ADAMS | 5980 SUE AVE | ROSAMOND | CA | 93560-6960 |
| DAVID ALLEN | 45056 LOGUE CT | LANCASTER | CA | 93535-2678 |
| DAVID BONZELL | PO BOX 1654 | ROSAMOND | CA | 93560-1654 |
| DAVID BOYLES | PO BOX 1752 | ROSAMOND | CA | 93560-1752 |
| DAVID BYERLY | PO BOX 1687 | ROSAMOND | CA | 93560-1687 |
| DAVID BYRNE | 42156 10TH ST W STE R | LANCASTER | CA | 93534-7065 |
| DAVID CARRILLO | 20541 E AVENUE Q4 | PALMDALE | CA | 93591-4505 |
| DAVID CEDILLOS | 13160 E AVENUE J | LANCASTER | CA | 93535-8709 |
| DAVID CHILDS | 28040 BROOKSIDE CT | CASTAIC | CA | 91384-2592 |
| DAVID DANIELS | 2111 W AVENUE K 15 | LANCASTER | CA | 93536 |
| DAVID DIXON | 5595 CHARAN RD | ROSAMOND | CA | 93560-6952 |
| DAVID DOMINGUEZ | 47904 30TH ST E | LANCASTER | CA | 93535-7613 |
| DAVID DOUTHIT | 24713 ISLAND AVE | CARSON | CA | 90745-6545 |
| DAVID DUKE | 1037 E PROVIDENCIA AVE | BURBANK | CA | 91501-1544 |
| DAVID EUZARRAGA | 555 N EL CAMINO REAL | SAN CLEMENTE | CA | 92672-6740 |
| DAVID FELIX | 7884 ROLAND AVE | ROSAMOND | CA | 93560-7023 |
| DAVID FREGOSO | 10931 HAMILTON RD | WILLOW SPRINGS | CA | 93560-7199 |
| DAVID FRIELING | 11354 W 115TH ST | ROSAMOND | CA | 93560 |
| DAVID FUTCH | PO BOX 558 | LAKE HUGHES | CA | 93532-0558 |
| DAVID GASS | 37304 DEL MAR ST | PALMDALE | CA | 93552-4666 |
| DAVID GINGRICH | 2652 DAVENPORT ST | ROSAMOND | CA | 93560-6922 |
| DAVID HALL | PO BOX 304 | LAKE HUGHES | CA | 93532-0304 |
| DAVID HARSHBARGER | 3524 E AVENUE R SPC 209 | PALMDALE | CA | 93550-5089 |
| DAVID HAWLEY | 4360 E MAIN ST UNIT 154 | VENTURA | CA | 93003-8279 |
| DAVID HOPKINS | 21215 W AVENUE C | LANCASTER | CA | 93536-9351 |
| DAVID IRVIN | 6817 W AVENUE A2 | LANCASTER | CA | 93536-9530 |
| DAVID JONES | PO BOX 900355 | PALMDALE | CA | 93590-0355 |
| DAVID KEMBLOWSKI | 7007 DARBY AVE | RESEDA | CA | 91335-4402 |
| DAVID KIEFER | 5332 61ST ST W | ROSAMOND | CA | 93560-6533 |
| DAVID LATTA | 37413 HARROW CT | PALMDALE | CA | 93550-7743 |
| DAVID LEWIS | 2207 62ND ST W | ROSAMOND | CA | 93560-6571 |
| DAVID LEWIS | 2207 62ND ST W | ROSAMOND | CA | 93560-6571 |
| DAVID LOGAN | PO BOX 60 | ROSAMOND | CA | 93560-0060 |
| DAVID MARTINEZ | 6055 HOLIDAY AVE STE B | ROSAMOND | CA | 93560-7129 |
| DAVID MC KEE | 6170 STARDUST AVE | ROSAMOND | CA | 93560-6543 |
| DAVID MCCRAE | PO BOX 2423 | LANCASTER | CA | 93539-2423 |
| DAVID MILBURN | 28460 AVENUE STANFORD | VALENCIA | CA | 91355-4856 |
| DAVID MORAN | 8812 TELFAIR AVE | SUN VALLEY | CA | 91352-1943 |
| DAVID MULLIN | PO BOX 900205 | PALMDALE | CA | 93590-0205 |
| DAVID NELSON | 1213 1ST ST # 182 | CORONADO | CA | 92118-1414 |
| DAVID PARK | 11809 DEL AMO BLVD | CERRITOS | CA | 90703-7605 |
| DAVID PARK | 3807 SIERRA HWY # 6-4413 | ACTON | CA | 93510-1255 |
| DAVID PEEK | PO BOX 1552 | ROSAMOND | CA | 93560-1552 |
| DAVID SCOTT | 1715 TURNBULL CANYON RD | HACIENDA HEIGHTS | CA | 91745-3206 |
| DAVID SERMON | 1340 97TH ST W | ROSAMOND | CA | 93560 |
| DAVID SICKLER | PO BOX 901852 | PALMDALE | CA | 93590-1852 |
| DAVID SKIPWORTH | PO BOX 552 | BORON | CA | 93596-0552 |
| DAVID SMITH | 6515 LINCOLN AVE | DEXTER | NM | 88230-9725 |
| DAVID SMITH | 42325 HIGHLAND CT | LANCASTER | CA | 93536-7392 |
| DAVID SSERUNKUMA | 525 S ARDMORE AVE APT 246 | LOS ANGELES | CA | 90020-3320 |
| DAVID STEGMAN | 1275 W BOSQUE DR | SAHUARITA | AZ | 85629-8592 |
| DAVID WANG | 33301 AGUA DULCE CANYON RD | AGUA DULCE | CA | 91390-4548 |
| DAVID WIGGS | 16915 FOOTHILL AVE | EDWARDS | CA | 93523-3532 |
| DAVID WONG | 2506 SPRECKELS LN | REDONDO BEACH | CA | 90278-5337 |

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| DAVIDSON ERNEST / DAVIDSON AUDREY | 411 MOONLIGHT TRL | | LEWISBURG | TN | 37091-3651 |
| DAY THERON H / DAY DEBRA J | 47421 60TH ST E | | LANCASTER | CA | 93535-7825 |
| DE ANNA LOVE | 12401 DEL ORO ST | | BORON | CA | 93516-1311 |
| DE LA TOVA SUMMER D | 46157 167TH ST W | | LANCASTER | CA | 93536-9002 |
| DEAN ARMBRUSTER | PO BOX 884 | | ROSAMOND | CA | 93560-0884 |
| DEAN WILLIAMS | 2504 SWAINSONS HAWK ST | | STOCKTON | CA | 95209-4277 |
| DEANA MULLINS | 115 90TH ST W | | ROSAMOND | CA | 93560-7019 |
| DEANNA SIMONIS | 5952 CHARAN RD | | ROSAMOND | CA | 93560-6967 |
| DEARDRA ABALOS | 26672 IRON CANYON RD | | SANTA CLARITA | CA | 91387-4811 |
| DEBBIE BADANO | 1210 E BROADWAY | | GLENDALE | CA | 91205-1408 |
| DEBBIE BRANDON | 24249 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| DEBBIE DEVOE | PO BOX 691 | | LAKE HUGHES | CA | 93532 |
| DEBBIE LANDSGAARD | PO BOX 167 | | ROSAMOND | CA | 93560-0167 |
| DEBBIE VANDAM | 7304 E AVENUE F | | LANCASTER | CA | 93535-7823 |
| DEBEAR PETER B / DEBEAR CAROL A | 20006 W AVENUE F | | LANCASTER | CA | 93536-9062 |
| DEBORA EPHRIAM | 12489 SIERRA VIEW ST | | BORON | CA | 93516-1344 |
| DEBORAH ADKINS | 4995 ELDER AVE | | ROSAMOND | CA | 93560-6978 |
| DEBORAH ALLUIS | 5265 61ST ST W | | ROSAMOND | CA | 93560-6479 |
| DEBORAH HAMES | 40892 COBBLESTONE CT | | PALMDALE | CA | 93551 |
| DEBORAH HAMIDI | 7210 JORDAN AVE STE B15 | | CANOGA PARK | CA | 91303-1357 |
| DEBORAH MINTER | PO BOX 4141 | | BURBANK | CA | 91503-4141 |
| DEBORAH ROULEAU | 11137 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7507 |
| DEBORAH SALTER | 2240 W AVENUE N | | PALMDALE | CA | 93551-2338 |
| DEBRA BEAN | PO BOX 1165 | | SANTAQUIN | UT | 84655-1165 |
| DEBRA GALLEGOS | 27096 JEROME ST | | BORON | CA | 93516-1632 |
| DEBRA HESSELTON | 4576 SWEETSER RD | | ROSAMOND | CA | 93560-6450 |
| DEBRA HULSEY | 5419 64TH ST W | | ROSAMOND | CA | 93560-6460 |
| DEBRA MC NEIL | 11715 TEHACHAPI WILLOW SPRINGS RD | | ROSAMOND | CA | 93560-6940 |
| DEBRA ROMINE | 38713 TIERRA SUBIDA AVE # 200-163 | | PALMDALE | CA | 93551-4562 |
| DEBRA SMITH | 51310 280TH ST W | | LANCASTER | CA | 93536-9238 |
| DEBRA TAYLORSPEARS | 3040 RIVERSIDE TER | | CHINO | CA | 91710-2964 |
| DEL ROSARIO MA | 2719 57TH ST W | | ROSAMOND | CA | 93560-6923 |
| DELA CRUZ JOSEPH C | 44625 31ST ST W | | LANCASTER | CA | 93536-8367 |
| DELILAH JENKINS | 24475 JOSHUA AVE | | BORON | CA | 93516-1326 |
| DELMAR FERGUSON | 3735 W AVENUE K15 | | LANCASTER | CA | 93536-4947 |
| DELMAR FERGUSON | 7543 WILLOW AVE | | ROSAMOND | CA | 93560-7029 |
| DELMAR VANDAM | 9753 E AVENUE F8 | | LANCASTER | CA | 93535-7913 |
| DELMY LOPEZ | 1121 L ST FL 7 | | SACRAMENTO | CA | 95814-3970 |
| DELORES JULIAN | 5554 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-6559 |
| DELORIS GUMS | 326 RUBERTA AVE | # A | GLENDALE | CA | 91201-2749 |
| DELORIS LAMBERT | PO BOX 923 | | ROSAMOND | CA | 93560-0923 |
| DELTON HICKMAN | PO BOX 900518 | | PALMDALE | CA | 93590-0518 |
| DELTON HOWARD | 12490 SIERRA VIEW ST | | BORON | CA | 93516-1352 |
| DELVIN RIVAS | 5770 GASKELL RD | | ROSAMOND | CA | 93560-7151 |
| DELYNN BECKETT | 43357 43RD ST W | | QUARTZ HILL | CA | 93536-5522 |
| DEMETRIO GABA | 4810 ARIANO DR | | CYPRESS | CA | 90630-3525 |
| DENISE OTTE | 12446 SIERRA VIEW ST | | BORON | CA | 93516-1343 |
| DENISE PETERSEN | 8225 ILLAHEE RD NE | | BREMERTON | WA | 98311-9373 |
| DENISHA BARNES | 16825 PASSAGE AVE UNIT 312 | | PARAMOUNT | CA | 90723-5675 |
| DENNING ANTHONY / RAIRDEN KATHRYN | 12735 MURPHYS LN | | PEARBLOSSOM | CA | 93553-3445 |
| DENNIS | 1710 W AVENUE L4 | | LANCASTER | CA | 93534-6951 |
| DENNIS CARTER | 24204 JUNIPER AVE | | BORON | CA | 93516-1329 |
| DENNIS CORBY | 141 127TH ST W | | ROSAMOND | CA | 93560-8201 |
| DENNIS DINNGER | 800 70TH ST W | | ROSAMOND | CA | 93560-7060 |
| DENNIS GAGNON | PO BOX 2308 | | ROSAMOND | CA | 93560-2308 |
| DENNIS GROVEN | 43036 42ND ST W | | LANCASTER | CA | 93536-5007 |
| DENNIS HOWARD | 24144 JOSHUA AVE | | BORON | CA | 93516-1321 |
| DENNIS HULSEY | 5419 64TH ST W | | ROSAMOND | CA | 93560-6460 |
| DENNIS LANK | PO BOX 136 | | BORON | CA | 93596-0136 |
| DENNIS MOREHOUSE | 12328 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3479 |
| DENNIS PENNA | PO BOX 844 | | LEBEC | CA | 93243-0844 |
| DENNIS PETERSHERNANDEZ | 3815 SW TEMPLE | | SALT LAKE CITY | UT | 84115 |
| DENNIS TARANDY | 11024 WOODSTOCK DR | | ORLAND PARK | IL | 60467-7608 |
| DENNIS VOGT | 11941 GASKELL RD | | ROSAMOND | CA | 93560-7055 |
| DENNY VERNON E / VERDEN TRUST | 46412 70TH ST E | | LANCASTER | CA | 93535-7833 |
| DEREK ROBINSON | 3311 W 3RD ST APT 1-355 | | LOS ANGELES | CA | 90020-1616 |
| DERIC ENGLISH | 24261 SAGE AVE | | BORON | CA | 93516-1333 |
| DERRICK OLIN ; BEATRICE / DERRICK FAMILY | 8847 E AVENUE G12 | | LANCASTER | CA | 93535-7905 |
| DERWIN AIKENS | 3658 W 59TH PL | | LOS ANGELES | CA | 90043-2904 |
| DESDEMONA LLC | PO BOX 17524 | | ENCINO | CA | 91416-7524 |
| DESERT CHRISTIAN MINISTRIES INC | 44662 15TH ST W | | LANCASTER | CA | 93534-2806 |
| DESERT CHRISTIAN MINISTRIES INC | 44662 15TH ST W | | LANCASTER | CA | 93534-2806 |
| DESERT LAKE LTD PTP | 16996 SPAATZ CIR | | RIVERSIDE | CA | 92518-2862 |
| DETAR LOIS A / DETAR DEAN E | 17316 FORT TEJON RD | | LLANO | CA | 93544-1300 |
| DEUS MICHAEL A | 23295 W AVENUE D8 | | LANCASTER | CA | 93536-9703 |
| DEUTCHE BANK TRUST CO | 1001 SEMMES AVE | | RICHMOND | VA | 23224-2245 |
| DEUTSCHE ALT-B TRUST 2006-AB4 | PO BOX 2103 | | BUFFALO | NY | 14240-2103 |
| DEUTSCHE BK TRUST CO AMERICAS TR | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| DEWGAW TR | 936 W AVENUE J8 | | LANCASTER | CA | 93534-4945 |
| DEWILLO SEMERAU | 1209 MELBORN WAY | | MINDEN | NV | 89423-8807 |
| DIANA BARILE | 2260 N GOWER ST | | HOLLYWOOD | CA | 90068-2953 |
| DIANA FRIELING | 11354 W 115TH ST | | ROSAMOND | CA | 93560 |
| DIANA LOPEZ | 4939 N SAINT MALO AVE | | COVINA | CA | 91722-1030 |
| DIANA MARTINEZ | 4939 N SAINT MALO AVE | | COVINA | CA | 91722-1030 |
| DIANA NELSON | PO BOX 418 | | BORON | CA | 93596-0418 |
| DIANA PARK | 11809 DEL AMO BLVD | | CERRITOS | CA | 90703-7605 |
| DIANA ROBLEDO | PO BOX 1881 | | ROSAMOND | CA | 93560-1881 |

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| DIANA TARANDY | 11024 WOODSTOCK DR | ORLAND PARK | IL | 60467-7608 |
| DIANE DOWELL | 19456 VANOWEN ST | RESEDA | CA | 91335-4919 |
| DIANE FISKE | PO BOX 1662 | ROSAMOND | CA | 93560-1662 |
| DIANE HICKS | 6107 SWEETSER RD | ROSAMOND | CA | 93560-6573 |
| DIANE PETERSON | PO BOX 1704 | FRAZIER PARK | CA | 93225-1704 |
| DIANE SCOTT | 1715 TURNBULL CANYON RD | HACIENDA HEIGHTS | CA | 91745-3206 |
| DIANE TIBBETTS | PO BOX 404 | LAKE HUGHES | CA | 93532-0404 |
| DIANE WANG | 33301 AGUA DULCE CANYON RD | AGUA DULCE | CA | 91390-4548 |
| DIANNE BASHOR | 1330 INSPIRATION DR | LA JOLLA | CA | 92037-6810 |
| DIANNE ESHBACH | PO BOX 749 | TEHACHAPI | CA | 93581-0749 |
| DIANNE MACLEAN | PO BOX 145 | LITTLEROCK | CA | 93543-0145 |
| DIANNE WASHINGTON | 3701 50TH ST W | ROSAMOND | CA | 93560-6725 |
| DICKERSON TR | 1616 N ALADDIN RD | LIBERTY LAKE | WA | 99016-9405 |
| DICKMAN ELLENOR T | 2267 PENGUIN DR | SPARKS | NV | 89441-5805 |
| DIEN NGUYEN | 2956 W ROWLAND CIR | ANAHEIM | CA | 92804-2059 |
| DILLARD LOVE | 12401 DEL ORO ST | BORON | CA | 93516-1311 |
| DILLON BEVAN | 2146 W AVENUE K 14 | LANCASTER | CA | 93536 |
| DINH HAO | 14151 SHIRLEY ST | WESTMINSTER | CA | 92683-4603 |
| DIRECT MONEY SOURCE INC | 10880 WILSHIRE BLVD STE 530 | LOS ANGELES | CA | 90024-4114 |
| DMARCO SMITH | PO BOX 931028 | LOS ANGELES | CA | 90093-1028 |
| DODDS HOWARD | 6248 E AVENUE J | LANCASTER | CA | 93535-8317 |
| DOLLIE KOSTOPOULOS | 24422 TAMARISK AVE | BORON | CA | 93516-1358 |
| DOLORE STEWARD | 26858 OAK BRANCH CIR | NEWHALL | CA | 91321-1429 |
| DOLORES BRAGG | 4890 90TH ST W | ROSAMOND | CA | 93560-6958 |
| DOLORES RCO | 5906 JASPER ST | RANCHO CUCAMONGA | CA | 91701-1929 |
| DOMENIC SCAVO | PO BOX 234 | PEARBLOSSOM | CA | 93553-0234 |
| DOMINICK ARCURI | 15981 GASKELL RD | ROSAMOND | CA | 93560-7164 |
| DON MUMFORD | PO BOX 1166 | ROSAMOND | CA | 93560-1166 |
| DONAGHE DIANA L | 45607 50TH ST E | LANCASTER | CA | 93535-7700 |
| DONALD ANDERSON | 386 EL ENCANTO DR | PASADENA | CA | 91107-5308 |
| DONALD BELLANCA | 5841 CATHY AVE | ROSAMOND | CA | 93560-7233 |
| DONALD BLANCHARD | 204 POINDEXTER DR | PASS CHRISTIAN | MS | 39571-2418 |
| DONALD BUSTILLOS | PO BOX 327 | ROSAMOND | CA | 93560-0327 |
| DONALD COMPTON | 233 E M ST | WILMINGTON | CA | 90744-2631 |
| DONALD CORNELIUS | 18655 WEST AVENUE E | LANCASTER | CA | 93536 |
| DONALD CRISMAN | 3040 JULIAN AVE | LONG BEACH | CA | 90808-4433 |
| DONALD DYAS | PO BOX 572 | ROSAMOND | CA | 93560-0572 |
| DONALD HOLLANDER | PO BOX 58 | VALYERMO | CA | 93563-0058 |
| DONALD JONES | PO BOX 943 | ROSAMOND | CA | 93560-0943 |
| DONALD KIM | 7320 COVENTRY CIR | BUENA PARK | CA | 90621-3932 |
| DONALD MASTERS | PO BOX 3251 | LANCASTER | CA | 93586-0251 |
| DONALD MAURAN | 1270 NORTHLAND DR | MENDOTA HEIGHTS | MN | 55120-1156 |
| DONALD NORTON | 2075 65TH ST W | ROSAMOND | CA | 93560-6535 |
| DONALD OLSEN | PO BOX 1526 | ROSAMOND | CA | 93560-1526 |
| DONALD SHIPMAN | 14097 SUNSET DR | WHITTIER | CA | 90602-2657 |
| DONALD SMALL | 6014 COLBATH AVE | VAN NUYS | CA | 91405 |
| DONALD STOVER | 24224 TAMARISK AVE | BORON | CA | 93516-1348 |
| DONALD STUKAS | 5585 TOPAZ ST | LAS VEGAS | NV | 89120-3316 |
| DONALD TIBBETTS | PO BOX 404 | LAKE HUGHES | CA | 93532-0404 |
| DONALD ZEDICHER | 5970 GASKELL RD | ROSAMOND | CA | 93560-6912 |
| DONALD ZUBIK | 36553 VISTA DEL LAGO ST | PALMDALE | CA | 93551-7969 |
| DONAN MCCLUNG | 41123 34TH ST W | PALMDALE | CA | 93551-1268 |
| DONATO TORREZ | 9534 W ROSAMOND BLVD | ROSAMOND | CA | 93560-7505 |
| DONG KEUN HUA | 37128 THE GRVS | PALMDALE | CA | 93551-6232 |
| DONG SHIN | 6742 KEOKUK AVE | WINNETKA | CA | 91306 |
| DONNA DE LANO | PO BOX 1211 | ROSAMOND | CA | 93560-1211 |
| DONNA DELANO | PO BOX 1211 | ROSAMOND | CA | 93560-1211 |
| DONNA FORT | 24330 TAMARISK AVE | BORON | CA | 93516-1350 |
| DONNA GEIGER | 7963 ROLAND AVE | ROSAMOND | CA | 93560-7057 |
| DONNA GEIGER | 7963 ROLAND AVE | ROSAMOND | CA | 93560-7057 |
| DONNA KNOWLTON | PO BOX 492 | BORON | CA | 93596-0492 |
| DONNA WOOTEN | 18231 US HIGHWAY 18 STE 1 | APPLE VALLEY | CA | 92307-2213 |
| DONNYE HAMOR | PO BOX 931 | HELENDALE | CA | 92342-0931 |
| DONOHOO JEFFREY S / DONOHOO SHERRI N | 6201 E AVENUE G8 | LANCASTER | CA | 93535-7832 |
| DONOHUE JACQUELYN | 31201 96TH ST E | LITTLEROCK | CA | 93543-3626 |
| DOREENE HUNT | 3435 WHISPER SANDS AVE | ROSAMOND | CA | 93560-7807 |
| DORIET MILLER | 9012 KESTER AVE | PANORAMA CITY | CA | 91402-1505 |
| DORIS BARNARD | 24164 JUNIPER AVE | BORON | CA | 93516-1328 |
| DORIS EWALT | 1000 E AVENUE S # 102 | PALMDALE | CA | 93550 |
| DORIS LEE | 2743 28TH ST W | ROSAMOND | CA | 93560-6436 |
| DORIS LOGAN | 5757 HOLIDAY AVE | ROSAMOND | CA | 93560-6563 |
| DORIS SNEED | 29757 CROMWELL AVE | CASTAIC | CA | 91384-4611 |
| DORIS STEUSSY | 12335 DEL ORO ST | BORON | CA | 93516-1309 |
| DORIS WILLIAMS | 10731 4 WINDS RD # 4 | LITTLEROCK | CA | 93543-3643 |
| DORLEENE MALLOCH | 5891 CASSON DR | YORBA LINDA | CA | 92886-9020 |
| DOROTHA HOWARD | 12200 EL MIRAGE ST | BORON | CA | 93516-1315 |
| DOROTHY CARTER | 2315 W 78TH PL | INGLEWOOD | CA | 90305-1125 |
| DOROTHY GERWAT | PO BOX 2330 | ROSAMOND | CA | 93560-2330 |
| DOROTHY NOLAN | PO BOX 668 | LANCASTER | CA | 93584-0668 |
| DOROTHY RESSLER | RR 1 BOX 196X | OKEMAH | OK | 74859-9746 |
| DOROTHY SLOCUM | PO BOX 1535 | LANCASTER | CA | 93539-1535 |
| DOROTHY THOMAS | 24264 TAMARISK AVE | BORON | CA | 93516-1348 |
| DOROTHY VARTANIAN | PO BOX 2600 | ROSAMOND | CA | 93560-2600 |
| DOSS HERSHEL D / DOSS BARBARA A | 18650 E PALMDALE BLVD | PALMDALE | CA | 93591-4307 |
| DOUBLESIN JOSEPH C / DOUBLESIN AGNES M | 48835 120TH ST E | LANCASTER | CA | 93535-8010 |
| DOUCETTE MILTON J JR / DOUCETTE LISA M | 29860 LANCASTER RD | LANCASTER | CA | 93536-9029 |
| DOUGLAS BEARDEN | 24217 SAGE AVE | BORON | CA | 93516-1333 |

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| DOUGLAS SARGENT | 832 DELL RD | PACIFICA | CA | 94044-4139 |
| DOUGLAS SCOTT | 8524 BLUFFDALE DR | SUN VALLEY | CA | 91352-3527 |
| DOUGLAS SHERWOOD | PO BOX 8486 | LANCASTER | CA | 93539-8486 |
| DOUGLAS TENNESON | 21051 CEDARFALLS DR | SAUGUS | CA | 91350-1920 |
| DOUGLAS YORK | PO BOX 260 | PEARBLOSSOM | CA | 93553-0260 |
| DOYLE GABRIEL A | 45405 55TH ST W | LANCASTER | CA | 93536-8313 |
| DOYLE RAPHAEL A | 5809 E AVENUE E | LANCASTER | CA | 93535-7846 |
| DRAKE GERALDINE | 48464 90TH ST E | LANCASTER | CA | 93535-7909 |
| DRASHER RAYMOND A / DRASHER JANET M | 28849 LONGVIEW RD | PEARBLOSSOM | CA | 93553-3403 |
| DRI HOLDINGS LLC | 14677 VIA BETTONA # 110-844 | SAN DIEGO | CA | 92127-4809 |
| DUAIN NELSON | 24437 TAMARISK AVE | BORON | CA | 93516-1351 |
| DUANE GARRINGER | PO BOX 1242 | PARADISE | CA | 95967-1242 |
| DUANE RUMSEY | 1234 WILSHIRE BLVD APT 229 | LOS ANGELES | CA | 90017-1975 |
| DUENAS INES R | 48354 100TH ST E | LANCASTER | CA | 93535-7917 |
| DULDULAO BRIGIDO / DULDULAO BELLY J | 3307 E AVENUE H | LANCASTER | CA | 93535-1619 |
| DUNN JOSEPH ; LEE / DUNN FAMILY | 9733 E AVENUE G10 | LANCASTER | CA | 93535-8425 |
| DUNN LLOYD G / DUNN ALICE J | 9743 E AVENUE G10 | LANCASTER | CA | 93535-8425 |
| DUNN LOYD J / DUNN CATHRYN | 46303 100TH ST E | LANCASTER | CA | 93535-8419 |
| DUONG DE AU | 25 MOSELLE DR | KENNER | LA | 70065-1123 |
| DUONG LE | 36525 HAROLD THIRD ST | PALMDALE | CA | 93550-9304 |
| DUPLEASIS CALVIN / DUPLEASIS DESTINY | 48856 265TH ST W | LANCASTER | CA | 93536-8904 |
| DUSTIN SCHILLING | 1235 MIRANDA CT | TEHACHAPI | CA | 93561-2364 |
| DWAINE BROOKS | 4837 WATT AVE | NORTH HIGHLANDS | CA | 95660-5108 |
| EAGLE POINT EQUITIES LLC | 24961 THE OLD RD STE 104 | STEVENSON RANCH | CA | 91381-1717 |
| EARL HARDY | PO BOX 1567 | ROSAMOND | CA | 93560-1567 |
| EARL ROSE | 24393 JOSHUA AVE | BORON | CA | 93516-1324 |
| EARL WHITESIDE | 45408 160TH ST W | LANCASTER | CA | 93536-9038 |
| EARLE BISHOP | 10837 HAMILTON RD | ROSAMOND | CA | 93560-6938 |
| EAVES JOHN M | 41517 TERRAZZO DR | PALMDALE | CA | 93551-1934 |
| EDDIE GARCIA | 5310 S WILTON PL | LOS ANGELES | CA | 90062-2117 |
| EDDIE HARRIS | PO BOX 802352 | SANTA CLARITA | CA | 91380-2352 |
| EDDY CASTELLANOS | PO BOX 940 | WELDON | CA | 93283-0940 |
| EDELMIRA VALENCIA | 41129 18TH ST W | PALMDALE | CA | 93551-2232 |
| EDGAR CALDERA | 14437 HARVEST MOON DR | SYLMAR | CA | 91342-5151 |
| EDGAR JUAREZ | 3460 TORRANCE BLVD STE 300 | TORRANCE | CA | 90503-5811 |
| EDGAR MONROY | PO BOX 5 | ROSAMOND | CA | 93560-0005 |
| EDGAR OCEGUEDA | 293 MOUNTAIN VIEW ST | ALTADENA | CA | 91001-5015 |
| EDGAR RIOS | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| EDGAR RITTER | PO BOX 1152 | LANCASTER | CA | 93584-1152 |
| EDILMA SERRANO | 3102 E AVENUE K4 | LANCASTER | CA | 93535-4933 |
| EDITH HOYT | 18988 W AVENUE E | LANCASTER | CA | 93536-9042 |
| EDITH MEJIA | 3904 W 171ST ST | TORRANCE | CA | 90504-1121 |
| EDITHA TAN | 6430 N HARLEM AVE | CHICAGO | IL | 60631-1422 |
| EDMONDSON ROBERT A / EDMONDSON JANETTE M | 1356 E AVENUE E | LANCASTER | CA | 93535-6505 |
| EDMUND W. SWAYZE | 3807 SIERRA HWY STE 64614 | ACTON | CA | 93510-1255 |
| EDNA BLUA | 38220 170TH ST E | PALMDALE | CA | 93591-3606 |
| EDNA DAVIS | 317 10TH ST | MANHATTAN BCH | CA | 90266-5407 |
| EDUARDO SANTOS | 241 LOMBARD ST | THOUSAND OAKS | CA | 91360-5807 |
| EDWARD BURNETT | PO BOX 877 | ROSAMOND | CA | 93560-0877 |
| EDWARD CALVERT | 8844 ARDENDALE AVE | SAN GABRIEL | CA | 91775-1904 |
| EDWARD COLLINS | PO BOX 340 | ROSAMOND | CA | 93560-0340 |
| EDWARD DOUTHIT | PO BOX 1882 | ROSAMOND | CA | 93560-1882 |
| EDWARD HANLEY | PO BOX 446 | RIO LINDA | CA | 95673-0446 |
| EDWARD HOUTZ | 41770 12TH ST W STE D | PALMDALE | CA | 93551-1424 |
| EDWARD KIM | 22128 ALTAIR LN | SANTA CLARITA | CA | 91390-5754 |
| EDWARD LUCIO | PO BOX 1437 | ROSAMOND | CA | 93560-1437 |
| EDWARD MARSHALL | 23060 W AVENUE C | LANCASTER | CA | 93536-9278 |
| EDWARD MULDER | 11878 JUNIPER HILLS RD | LITTLEROCK | CA | 93543-4207 |
| EDWARD NICHOLS | 16996 SPAATZ CIR | RIVERSIDE | CA | 92518-2862 |
| EDWARD ROUSH | 2519 W AVENUE O 12 | PALMDALE | CA | 93551 |
| EDWARD ROWDEN | 1244 E AVENUE E | LANCASTER | CA | 93535-6504 |
| EDWARD STEGMAN | 4636 E AVENUE H | LANCASTER | CA | 93535-7718 |
| EDWARD WILLIAMS | 10731 4 WINDS RD # 4 | LITTLEROCK | CA | 93543-3643 |
| EDWARDO AREVALO | 7294 BACKUS RD | MOJAVE | CA | 93501-7161 |
| EDWIN FISKE | PO BOX 1662 | ROSAMOND | CA | 93560-1662 |
| EDWIN ROGERS | PO BOX 2320 | ROSAMOND | CA | 93560-2320 |
| EFRAIN PINEDA | 2129 60TH ST W | ROSAMOND | CA | 93560-6560 |
| EFREN SOLORZANO | 42848 ALEP ST | LANCASTER | CA | 93536-4857 |
| EG HIGH DESERT PROP LLC | 12979 ARROYO ST | SAN FERNANDO | CA | 91340-1548 |
| EGBERT VACTOR | 4957 VISTA DE ORO AVE | LOS ANGELES | CA | 90043-1653 |
| EHO CHOI | 716 S HARVARD BLVD APT 128 | LOS ANGELES | CA | 90005-2526 |
| EILEEN ROE | PO BOX 902915 | PALMDALE | CA | 93590-2915 |
| EILEEN WEBB | 9937 W AVENUE A | ROSAMOND | CA | 93560-7371 |
| EKIMOTO WAYNE M / EKIMOTO NANCY J | 44308 MUNZ RANCH RD | LAKE HUGHES | CA | 93532-1204 |
| EL DORA IRVING | 1521 W AVENUE L UNIT 3 | LANCASTER | CA | 93534-6356 |
| ELAINE MORALES | PO BOX 1382 | ROSAMOND | CA | 93560-1382 |
| ELAINE PARK | 3807 SIERRA HWY # 6-4413 | ACTON | CA | 93510-1255 |
| ELDORA BRANES | 27011 BARNES RANCH RD | LANCASTER | CA | 93536-9713 |
| ELEAZER GUZMAN | 10700 E AVENUE E | LANCASTER | CA | 93535-8006 |
| ELENA JONES | 2741 W AVENUE F | LANCASTER | CA | 93536-9565 |
| ELENA KAMMER | PO BOX 4268 | LANCASTER | CA | 93539-4268 |
| ELENITA COLIS | 4518 BELLFLOWER BLVD | LAKEWOOD | CA | 90713-2501 |
| ELEONORE KERTZMAN | 767 100TH ST W | ROSAMOND | CA | 93560-7016 |
| ELI COLVIN | PO BOX 29 | VALYERMO | CA | 93563-0029 |
| ELIAZAR CASTANON | 2830 60TH ST W | ROSAMOND | CA | 93560-6991 |
| ELISE MAURAN | 1270 NORTHLAND DR | MENDOTA HEIGHTS | MN | 55120-1156 |
| ELIU BOTELLO | 6501 IRVINE CENTER DR | IRVINE | CA | 92618-2118 |

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|---|---|---|---|---|---|
| ELIZABETH CLARK | PO BOX 443 | | PEARBLOSSOM | CA | 93553-0443 |
| ELIZABETH DE LANO | PO BOX 1674 | | ROSAMOND | CA | 93560-1674 |
| ELIZABETH HORMOZI | 6323 MESSINA CT | | PALMDALE | CA | 93552-4737 |
| ELIZABETH JONES | PO BOX 2498 | | ROSAMOND | CA | 93560-2498 |
| ELIZABETH JONES | PO BOX 2498 | | ROSAMOND | CA | 93560-2498 |
| ELIZABETH KENNEDY | 41654 FIRENZE ST | | LANCASTER | CA | 93536-2953 |
| ELIZABETH KIMBERLIN | 1100 W JACKSON RD | | CARROLLTON | TX | 75006-1316 |
| ELIZABETH STEAD | 6171 GOBI ST | | ROSAMOND | CA | 93560 |
| ELIZABETH WOODBAISIE | 7125 LENNOX AVE APT 124 | | VAN NUYS | CA | 91405-3134 |
| ELLA GARCIA | PO BOX 924 | | ROSAMOND | CA | 93560-0924 |
| ELLEN ILES | PO BOX 1424 | | ROSAMOND | CA | 93560-1424 |
| ELLIS CHARLENE / ELLIS FRANK | 5506 W AVENUE H8 | | LANCASTER | CA | 93536-8315 |
| ELMA MONTERROSO | 5764 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560-6980 |
| ELMER HILARIO | 2617 EVELYN AVE | | WEST COVINA | CA | 91792-2031 |
| ELMER PRICE | 24150 JUNIPER AVE | | BORON | CA | 93516-1328 |
| ELMER VAN HORM | 24122 SAGE AVE | | BORON | CA | 93516-1332 |
| ELOISA IBARRA | 5954 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| ELSA FUENTES | 999 NW GRAND BLVD STE 100 | | OKLAHOMA CITY | OK | 73118-6077 |
| ELSE DRENGLER | 12060 W AVENUE K | | LANCASTER | CA | 93536-9009 |
| ELSIE COLLINS | PO BOX 340 | | ROSAMOND | CA | 93560-0340 |
| ELSIE KUI LIAM TR | 1236 E MARIPOSA AVE | | EL SEGUNDO | CA | 90245-3222 |
| ELSIE RILEY | 24143 CHAPARRAL AVE | | BORON | CA | 93516-1303 |
| ELVIA SARAVIA | 14902 GERKIN AVE | | HAWTHORNE | CA | 90250-8313 |
| ELVIRA ARANDIA | 3815 SW TEMPLE | | SALT LAKE CITY | UT | 84115 |
| EMC MORTGAGE CORPORATION | 909 HIDDEN RDG STE 200 | | IRVING | TX | 75038-3826 |
| EMIL SAXBERG | 1566 SIXTH AVE | | BELMONT | CA | 94002-3805 |
| EMIL SULEK | 455 W AVENUE G | | LANCASTER | CA | 93534-7607 |
| EMILIANO ALBERDI | 1633 ULLOA ST | | SAN FRANCISCO | CA | 94116-2542 |
| EMILIANO NAVA | 1425 S GREENWOOD AVE | | MONTEBELLO | CA | 90640-6303 |
| EMILIO GONZALEZ | 3238 W AVENUE N | | PALMDALE | CA | 93551-1273 |
| EMILY SIFFERMAN | 5308 W AVENUE L6 | | QUARTZ HILL | CA | 93536-4444 |
| EMMA ESCAMILLA | 3569 S B ST | | OXNARD | CA | 93033-6128 |
| EMMA GARCIA | PO BOX 4184 | | EL MONTE | CA | 91734-4184 |
| EMMANUEL ROSAS | 1171 N KENMORE AVE APT 11 | | LOS ANGELES | CA | 90029-1574 |
| EMMETT WATTS | 11112 CHERRY CROFT DR | | YUCAIPA | CA | 92399-9654 |
| EMPFIELD DANIEL J | 17116 BOBS GAP RD | | VALYERMO | CA | 93563 |
| ENAYAT ZAKHOR | 10750 WILSHIRE BLVD APT 1502 | | LOS ANGELES | CA | 90024-4477 |
| ENCINO PROPERTIES COMPANY INC | 3476 STATEVIEW BLVD | | FORT MILL | SC | 29715-7203 |
| ENOS | PO BOX 588 | | LAKE HUGHES | CA | 93532-0588 |
| EO MILBURN | 28460 AVENUE STANFORD | | VALENCIA | CA | 91355-4856 |
| EQUANT INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| EQUITY TRUST COMPANY CSTND ET AL | 1134 ASH ST | | BRAWLEY | CA | 92227-3489 |
| ERBY BEARDEN | 24263 JOSHUA AVE | | BORON | CA | 93516-1322 |
| ERIC CARTER | 2333 E MEADOW LARK WAY | | SAN TAN VLY | AZ | 85140-5618 |
| ERIC DEWAR | 12249 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| ERIC FINES | 43325 VINEYARD DR | | LANCASTER | CA | 93535 |
| ERIC HAMINI | PO BOX 2698 | | LANCASTER | CA | 93539-2698 |
| ERIC JACOBS | 2134 MAIN ST STE 185 | | HUNTINGTON BEACH | CA | 92648-6448 |
| ERIC LANDSGAARD | PO BOX 167 | | ROSAMOND | CA | 93560-0167 |
| ERIC SEEKINS | 7210 W AVENUE A | | LANCASTER | CA | 93536-9543 |
| ERIK PETERSEN | PO BOX 1074 | | ROSAMOND | CA | 93560-1074 |
| ERIK RAPOS | 5036 W AVENUE L8 | APT 21 | LANCASTER | CA | 93536-3608 |
| ERIN COLLINS | 42305 DANIEL DR | | LANCASTER | CA | 93536-1231 |
| ERIN GONZALES | 6843 ELDER AVE | | ROSAMOND | CA | 93560-7282 |
| ERLINDA BERNAL | 127 E 12TH ST | | HUNTINGTON STATION | NY | 11746-2523 |
| ERLINDA KOO | 680 CADIZ ST | | MONTEREY PARK | CA | 91754-2635 |
| ERLYN NAGUIAT | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| ERMIN BUCKNOR | 3770 VIRGINIA RD | | LOS ANGELES | CA | 90016-5857 |
| ERNEST BRYANT | 4906 INDIANOLA WAY | | LA CANADA FLT | CA | 91011-2650 |
| ERNEST CRAIN | PO BOX 415 | | BORON | CA | 93596-0415 |
| ERNEST HAMOR | PO BOX 931 | | HELENDALE | CA | 92342-0931 |
| ERNEST MOCK | 36881 HINKLEY RD | | HINKLEY | CA | 92347-9670 |
| ERNEST TERRILL | 24406 SAGE AVE | | BORON | CA | 93516-1338 |
| ESCALERA PAUL | 3601 W AVE #K-10 | | LANCASTER | CA | 93536 |
| ESPANA CARLOS E / ESPANA RITA | 40828 SLATE CT | | PALMDALE | CA | 93551-1805 |
| ESPARZA JUAN A / ESPARZA JILLIAN M | 810 E AVENUE G | | LANCASTER | CA | 93535-5903 |
| ESPINAL JOSE NAD MARINA | 47918 120TH ST E | | LANCASTER | CA | 93535-8009 |
| ESPINOZA JOSE L | 18805 E AVENUE R8 | | LLANO | CA | 93544 |
| ESQUIVEL JUAN F / ESQUIVEL FRANCISCA G | 37215 THE GRVS | | PALMDALE | CA | 93551-6235 |
| ESTA EVANGELISTA | 1046 W HOLGUIN ST | | LANCASTER | CA | 93534-1442 |
| ESTABAN GONZALEZ | 29679 GASKELL RD | | LANCASTER | CA | 93536-9614 |
| ESTEBAN AGUILAR | 5818 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560-6917 |
| ESTELA GARCIA | 7601 W AVENUE A | | LANCASTER | CA | 93536-9623 |
| ESTELA MURO | 3311 AIRWAY LN | | ROSAMOND | CA | 93560-6471 |
| ESTES CHRISTOPHER W / ESTES TAMMY F | 49606 230TH ST W | | LANCASTER | CA | 93536-9275 |
| ESTEVAN RAMIREZ | 6313 ASTORIA AVE | | ROSAMOND | CA | 93560-6536 |
| ESTHER AGLUGUB | 25755 HAWTHORNE PL | | STEVENSON RNH | CA | 91381-1452 |
| ESTHER AKIODE | 6213 TANGELO PL | | SIMI VALLEY | CA | 93063-7072 |
| ESTHER CALDERON | 6456 HOLIDAY AVE | | ROSAMOND | CA | 93560-6522 |
| ESTHER GOMEZ | 1332 99TH ST W | | ROSAMOND | CA | 93560-7538 |
| ESTHER GREENE | 7509 FREESTONE LN | | LITTLEROCK | CA | 93543-3010 |
| ESTHER JONES | 9440 E AVENUE I | | LANCASTER | CA | 93535-8400 |
| ESTHER LIU | 6485 DARBY AVE | | LAS VEGAS | NV | 89146-6600 |
| ESTHER NELSON | 36524 W JONES AVE | | TONOPAH | AZ | 85354-7570 |
| ESTHER WHITE | PO BOX 3206 | | LANCASTER | CA | 93586-0206 |
| ESTRADA DIEGO / ESTRADA MARLENE I | 43066 36TH ST W | | LANCASTER | CA | 93536-4870 |
| ETHEL MCCULLOCH | 5117 CRENSHAW BLVD APT 11 | | LOS ANGELES | CA | 90043-1892 |

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| ETHEL TAMETE | 0 67-211 KALIUNA ST | | WAIALUA | HI | 96791 |
| ETHERTON CAROLYN J | 717 E OLDFIELD ST | | LANCASTER | CA | 93535-3217 |
| EUDALDO ROSALES | 9725 E BILLINGS CT | | MESA | AZ | 85207-8002 |
| EUFEMIA MANUEL | 42936 FAIRLEE DR | | LANCASTER | CA | 93536-4636 |
| EUGENE BLOCK | 24262 JUNIPER AVE | | BORON | CA | 93516-1329 |
| EUGENE BROTH | 5250 TWIN OAKS RD | | HIDDEN HILLS | CA | 91302-2416 |
| EUGENE NEBEKER | 400 N ROCKINGHAM AVE | | LOS ANGELES | CA | 90049-2638 |
| EUGENE SIEGEL | PO BOX 363 | | LITTLEROCK | CA | 93543-0363 |
| EUGENE WON | 11901 SANTA MONICA BLVD STE 110 | | LOS ANGELES | CA | 90025-2782 |
| EUGENIA FELTER | PO BOX 1030 | | ROSAMOND | CA | 93560-1030 |
| EUN CHOI | 25269 THE OLD RD STE B | | STEVENSON RANCH | CA | 91381-2202 |
| EURALARY BILLYZONE | 542 E AVENUE G | | LANCASTER | CA | 93535-5900 |
| EVA DI MATTIO | PO BOX 20 | | LANCASTER | CA | 93584-0020 |
| EVA RAMIREZ | PO BOX 1599 | | ROSAMOND | CA | 93560-1599 |
| EVAN LANE | 905 MISSION CREEK DR | | PALM DESERT | CA | 92211-5910 |
| EVANGELINE BALDOZ | 4566 WOLVERINE WAY | | ANTIOCH | CA | 94531-7677 |
| EVANS THELMA P | 43035 FAIRLEE DR | | LANCASTER | CA | 93536-4605 |
| EVELYN ARGUETA | 3808 PARK VISTA CT | | ROSAMOND | CA | 93560-5912 |
| EVELYN BEALMER | 2833 55TH ST W | | ROSAMOND | CA | 93560-6539 |
| EVELYN HOUSE | PO BOX 1874 | | ROSAMOND | CA | 93560-1874 |
| EVERARDO GUERRERO | 5902 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| EVERETT BEALE | PO BOX 1850 | | ROSAMOND | CA | 93560-1850 |
| EZEJUEK DAVID | 1338 N DETROIT ST APT 7 | | LOS ANGELES | CA | 90046-4426 |
| EZEKIAL UNITED MISSION | C/O DAVID WADA | 17906 POINT ARGUELLO PLACE | CERRITOS | CA | 90703 |
| EZEQUIEL CARONA | 8715 FAVORITO AVE | | ROSAMOND | CA | 93560-7181 |
| FADDOUL CHRIS / FADDOUL PAM | 7605 W AVENUE H | | LANCASTER | CA | 93536-8111 |
| FAE BROOKS | 19213 SCHOENBORN ST | | NORTHRIDGE | CA | 91324-4249 |
| FALASSI PAUL L / FALASSI CAROL A | 50632 70TH ST W | | LANCASTER | CA | 93536-9517 |
| FALCON POINTE LLC | 15345 BONANZA RD STE A | | VICTORVILLE | CA | 92392-2499 |
| FANNY MENESES | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| FARGO WELLS | 6501 IRVINE CENTER DR | | IRVINE | CA | 92618-2118 |
| FARHA HADDAD | 17046 CANVAS ST | | CANYON CNTRY | CA | 91387-3119 |
| FARMER CONSTANCE | 6720 GASKELL RD | | ROSAMOND | CA | 93560-7132 |
| FARR SONEI | 21601 VANOWEN ST STE 203 | | CANOGA PARK | CA | 91303-2757 |
| FARROW DAVID / FARROW DEBORAH | 25737 W AVENUE B | | LANCASTER | CA | 93536-9186 |
| FATIMA ZARATE | 601 5TH AVE | | SCOTTSBLUFF | NE | 69361-3581 |
| FAVIOLA CORTEZ | 6654 W AVENUE L4 | | LANCASTER | CA | 93536-4560 |
| FAY CAIN | 2032 MAPLEWOOD CT S | | SALEM | OR | 97306-2355 |
| FAY MILDRED | 24263 JOSHUA AVE | | BORON | CA | 93516-1322 |
| FEDERAL HOME LOAN | 5000 PLANO PKWY | | CARROLLTON | TX | 75010-4900 |
| FEDERAL NATIONAL MORGAGE ASSN | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| FEDERAL NATL MTG ASSN FNMA | 601 5TH AVE | | SCOTTSBLUFF | NE | 69361-3581 |
| FEDERICO GONZALEZ | 4310 CIMARRON RIDGE DR | | BAKERSFIELD | CA | 93313-5549 |
| FEJES MICHAEL P / WEBB MADLEINE K | 11508 LINDA MESA RD | | LITTLEROCK | CA | 93543-4223 |
| FELDER WILLIAM J / FELDER SHERI L | 5859 E AVENUE F | | LANCASTER | CA | 93535-7831 |
| FELECIA BOYETT | 24274 SAGE AVE | | BORON | CA | 93516-1334 |
| FELICIA DARNOLD | 8543 ROSAMOND BLVD | | ROSAMOND | CA | 93560 |
| FELIPA GUZMAN | 0 99-080 OLOPARIA ST | | AIEA | HI | 96701 |
| FELIX TAPIA | 6908 DE CELIS PL | | VAN NUYS | CA | 91406-4605 |
| FELIX TAPIA | 6400 GOBI AVE | | ROSAMOND | CA | 93560-7514 |
| FERAIDOON MOSTOUFI | 48550 190TH ST W | | LANCASTER | CA | 93536-9363 |
| FERNANDEZ ENRIQUE / FERNANDEZ CLEMENTINA | 37128 185TH ST E | | LLANO | CA | 93544-1464 |
| FERNANDEZ FAMILY LIVING TRUST | 166 LEE AVE | | SAN FRANCISCO | CA | 94112-2346 |
| FERNANDO BENITEZ | 39031 230TH ST E | | PALMDALE | CA | 93591-4707 |
| FERNANDO SPIRITO | 1270 NORTHLAND DR STE 200 | | MENDOTA HEIGHTS | MN | 55120-1176 |
| FERRAND GEROGE / FERRAND CHERYL | 654 E AVENUE G | | LANCASTER | CA | 93535-5901 |
| FILLMORE HUBERT L | 18580 W AVENUE E | | LANCASTER | CA | 93536-9066 |
| FINBERG ROBERT W; MARY L | FINBERG TRUST | 12202 JUNIPER HILLS RD | PEARBLOSSOM | CA | 93553-3456 |
| FIRSICK BARBARA J | 48157 70TH ST E | | LANCASTER | CA | 93535-7842 |
| FIRSICK THOMAS B | 47851 70TH ST E | | LANCASTER | CA | 93535-7839 |
| FIRST FRANKLIN FINANCIAL CORP | 150 ALLEGHENY CENTER MALL | | PITTSBURGH | PA | 15212-5335 |
| FISHER MICHAEL O / FISHER S LASHELLE | 46125 100TH ST E | | LANCASTER | CA | 93535-8421 |
| FLINT MICHAEL W / FLINT DEBORAH M | 37116 THE GRVS | | PALMDALE | CA | 93551-6232 |
| FLORA CURTIS | 3680 JASMINE AVE | | ROSAMOND | CA | 93560-7675 |
| FLORENCE MC INTOSH | 6201 N 16TH ST APT 105 | | PHOENIX | AZ | 85016-1751 |
| FLORES JUAN / FLORES MARIA | 5633 W AVENUE H | | LANCASTER | CA | 93536-8332 |
| FLORES SALVADOR / FLORES AIDA | 2740 W AVENUE F | | LANCASTER | CA | 93536-9565 |
| FODI INC | 17037 CHATSWORTH ST STE 101 | | GRANADA HILLS | CA | 91344-5881 |
| FONTENOT ROBERT JR | 40815 SILTSTONE CT | | PALMDALE | CA | 93551-1853 |
| FORECAST LAND CORP | 21250 CALIFA ST | STE 113 | WOODLAND HLS | CA | 91367-5025 |
| FOREST SCHERMERHORN | PO BOX 1271 | | ROSAMOND | CA | 93560-1271 |
| FORTE LOUIS L | 4123 W AVENUE F | | LANCASTER | CA | 93536-9561 |
| FOSTER JARVIS | 12491 EL MIRAGE ST | | BORON | CA | 93516-1354 |
| FOSTER MARTIN L / BULLION DONNA J | 23814 W AVENUE D12 | | LANCASTER | CA | 93536-9118 |
| FOUNTAIN ENTERPRISES AND | 13636 VENTURA BLVD # 273 | | SHERMAN OAKS | CA | 91423-3700 |
| FOURR DEAN W / FOURR JANIS R | 8212 E AVENUE H | | LANCASTER | CA | 93535-7902 |
| FRAN ELLWOOD | 24152 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| FRANCES APPLEBY | 1525 60TH ST W | | ROSAMOND | CA | 93560-6574 |
| FRANCES BURNETT | PO BOX 877 | | ROSAMOND | CA | 93560-0877 |
| FRANCES MASON | 2609 HONOLULU AVE STE 100 | | MONTROSE | CA | 91020-1734 |
| FRANCES MIGUEL | 1111 GULICK AVE | | HONOLULU | HI | 96819-4514 |
| FRANCES NANDAL | PO BOX 1035 | | DESERT HOT SPRINGS | CA | 92240-0914 |
| FRANCES PATTERSON | 16754 E AVENUE X SPC 48 | | LLANO | CA | 93544-1005 |
| FRANCES PENNA | PO BOX 844 | | LEBEC | CA | 93243-0844 |
| FRANCES VEGA | 1025 W AVENUE I | # 4 | LANCASTER | CA | 93534-2243 |
| FRANCES YARDLEY | PO BOX 186 | | ELDRIDGE | CA | 95431-0186 |
| FRANCHELLE JOHNSON | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |

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| FRANCINE CARROLL | 5106 W AVENUE K8 | | QUARTZ HILL | CA | 93536-5143 |
| FRANCIS CHAMPAGNE | 7989 RENEE CIR STE CI | | BENTON | AR | 72019-9551 |
| FRANCIS KENNETH P | 28545 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3423 |
| FRANCISCA SUAREZ | 5953 WILLOW AVE | | ROSAMOND | CA | 93560-7235 |
| FRANCISCO GARCIA | 171 CAGEL ST | | ROSAMOND | CA | 93560-6906 |
| FRANCISCO MARTINEZ | 3622 IGO ST | | SAN ANTONIO | TX | 78230-2305 |
| FRANCISCO ORTA | 4491 SEPULVEDA BLVD | | CULVER CITY | CA | 90230-4848 |
| FRANK CHIODO | 376 SIERRA SPRINGS DR | | MAMMOTH LAKES | CA | 93546-9579 |
| FRANK FELIX | 812 PAHUMELE PL | | KAILUA | HI | 96734-3514 |
| FRANK FRANCO | 12204 ALBERTA DR | | CULVER CITY | CA | 90230-5906 |
| FRANK GERWAT | PO BOX 2330 | | ROSAMOND | CA | 93560-2330 |
| FRANK GONZALES | PO BOX 1981 | | LANCASTER | CA | 93539-1981 |
| FRANK HANSCHMIDT | 5282 SOUTHSIDE # C | | NAMPA | ID | 83686 |
| FRANK KENTON | 10200 CIMA MESA RD | | JUNIPER HILLS | CA | 93543-3637 |
| FRANK LESTER | 446 SAN VICENTE BLVD UNIT 201 | | SANTA MONICA | CA | 90402-1712 |
| FRANK MALLOCH | 5891 CASSON DR | | YORBA LINDA | CA | 92886-9020 |
| FRANK MATLOCK | 25830 CHERRYHILL DR | | BORON | CA | 93516-1203 |
| FRANK NIEDERMEIER | 2405 W 169TH PL | | TORRANCE | CA | 90504-2829 |
| FRANK PRITCHARD | 8029 HAZEL AVE | | ORANGEVALE | CA | 95662-2104 |
| FRANK SMITH | 10961 DESERT LAWN DR SPC 260 | | CALIMESA | CA | 92320-2215 |
| FRANK WHITE | PO BOX 3206 | | LANCASTER | CA | 93586-0206 |
| FRANKLIN ALFRED | 28000 BUCHANNON RANCH RD | | LLANO | CA | 93544-1569 |
| FRANKLIN BRASFIELD | PO BOX 2567 | | ROSAMOND | CA | 93560-2567 |
| FRANKLIN ELLIOTT | 7435 35TH ST W | | MOJAVE | CA | 93501-7304 |
| FRANTZ BARRY N / FRANTZ DIANE | 11100 JUNIPER MESA RD | | LITTLEROCK | CA | 93543-3601 |
| FRAZIER BARBARA G | 29230 BOBS GAP RD | | VALYERMO | CA | 93563-1009 |
| FRED GOREE | PO BOX 2412 | | LANCASTER | CA | 93539-2412 |
| FRED HINKLE | 2193 100TH ST W | | ROSAMOND | CA | 93560-7012 |
| FREDDIE MUNOZ | 519 E 148TH ST | APT 1 | BRONX | NY | 10455-2870 |
| FREDERICK MOBLEY | 327 SE ST | | LOMPOC | CA | 93436 |
| FREEMAN LYLE | PO BOX 3607 | | PLS VRDS PNSL | CA | 90274-9511 |
| FREEMAN VALERIE J | 9523 COLLEY PL | | LITTLEROCK | CA | 93543-3630 |
| FREGOSO HOLLADAY | 10931 HAMILTON RD | | WILLOW SPRINGS | CA | 93560-7199 |
| FRITZ ROBERT L ; MARTHA L / FRITZ FAMILY | 14645 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3437 |
| FULLER RONALD J / FULLER JANET R | 18611 W AVENUE E4 | | LANCASTER | CA | 93536-9049 |
| G CRABB | 310 S 11TH PL | | ROGERS | AR | 72756-4251 |
| G S EQUITY RESOURCES II INC | PO BOX 8159 | | CALABASAS | CA | 91372-8159 |
| G8 CAPITAL FUND IX LLC | 999 CORPORATE DR STE 215 | | LADERA RANCH | CA | 92694-2148 |
| GABRIEL MORADO | 1363 RIDGEMONT CT | | OCEANSIDE | CA | 92056-6621 |
| GABRIEL VALDIVIA | 4627 SWEETSER RD | | ROSAMOND | CA | 93560-6454 |
| GABRIELA BORROEL | 2400 100TH ST W | | ROSAMOND | CA | 93560-7080 |
| GABRIELA GARCIA | 2632 VIA RAMONA | | LANCASTER | CA | 93535 |
| GAIL ENGLISH | PO BOX 114 | | BORON | CA | 93596-0114 |
| GAILEN KYLE | 12345 E AVENUE J | | LANCASTER | CA | 93535-8704 |
| GALDAMEZ NORA J | 45403 DIVISION ST | | LANCASTER | CA | 93535-1825 |
| GALLAGHER THOMAS J / GALLAGHER FAMILY | 46200 30TH ST E | | LANCASTER | CA | 93535-7611 |
| GALLOWAY GLENN | 45153 112TH ST W | | LANCASTER | CA | 93536-9011 |
| GAMAR DOURBAYAN | 69520 CRESTVIEW DR | | DSRT HOT SPGS | CA | 92241-8724 |
| GAMEZ MANUEL / GAMEZ SOLEDAD | 638 E AVENUE G | | LANCASTER | CA | 93535-5901 |
| GAR HOUSE | 655 W BROADWAY | | SAN DIEGO | CA | 92101-8590 |
| GARBELL JEFFREY R / GARBELL SUZANNE M | 40827 GRANITE ST | | PALMDALE | CA | 93551-1806 |
| GARCIA LUIS / GARCIA BLANCA J | 9487 E AVENUE E | | LANCASTER | CA | 93535-7933 |
| GARCIA MARIO N / GARCIA LAURA | 40814 COBBLESTONE CT | | PALMDALE | CA | 93551-1849 |
| GARIBAY GARY J / SAN JUANITA | 6612 E AVENUE K | | LANCASTER | CA | 93535-8614 |
| GARIBAY GARY J / SAN JUANITA | 6612 E AVENUE K | | LANCASTER | CA | 93535-8614 |
| GARRETT JACK / SATTERFIELD GARRETT J M | 9348 W AVENUE I | | LANCASTER | CA | 93536-8002 |
| GARRETT JOANNE J / GARRETT FAMILY | 1018 ASPEN GROVE CIR | | MINDEN | NV | 89423-4455 |
| GARRY BLUE | 16771 ALEXANDER AVE | | EDWARDS | CA | 93523-3525 |
| GARY BURCHETT | 2204 AGNES ST | | EAU CLAIRE | WI | 54701-4705 |
| GARY DEVOE | PO BOX 691 | | LAKE HUGHES | CA | 93532 |
| GARY DEXTER | 18702 KINGS ROW AVE | | CERRITOS | CA | 90703-8050 |
| GARY FRAPPIER | PO BOX 2852 | | LANCASTER | CA | 93539-2852 |
| GARY GLENN | 957 PERALTA AVE | | ALBANY | CA | 94706-2144 |
| GARY GRIER | 2951 59TH ST W | | ROSAMOND | CA | 93560-6274 |
| GARY GRIMES | 39749 MAKIN AVE | | PALMDALE | CA | 93551-2940 |
| GARY JENSEN | 895 B ST # 305 | | HAYWARD | CA | 94541-5107 |
| GARY JORDAN | PO BOX 756 | | BORON | CA | 93596-0756 |
| GARY POCHMARA | PO BOX 2260 | | ROSAMOND | CA | 93560-2260 |
| GARY STABELL | 572 60TH ST W | | ROSAMOND | CA | 93560-6956 |
| GARY SUTTON | PO BOX 391 | | LANCASTER | CA | 93584-0391 |
| GARY VANDAM | 7304 E AVENUE F | | LANCASTER | CA | 93535-7823 |
| GARY YOTHER | 10735 ROSS RD | | LITTLEROCK | CA | 93543-3647 |
| GASPARA GAZMEN | 18700 LEMAY ST | | RESEDA | CA | 91335-5214 |
| GAVER RICHARD / GAVER CHRISTOPHER R | PO BOX 474 | | CONCORD | CA | 94522-0474 |
| GAY GRANT | 111 1/2 AMETHYST AVE | | NEWPORT BEACH | CA | 92662-6407 |
| GAYE MOBLEY | 327 SE ST | | LOMPOC | CA | 93436 |
| GAYLE BOVEE | PO BOX 427 | | ROSAMOND | CA | 93560-0427 |
| GAYLE FENALD | PO BOX 6886 | | LANCASTER | CA | 93539-6886 |
| GAYLE MERGILI | PO BOX 2531 | | ROSAMOND | CA | 93560-2531 |
| GEMMA AMPONGAN | PO BOX 5674 | | SHERMAN OAKS | CA | 91413-5674 |
| GENARO CONTRERAS | 23588 W AVENUE D # D | | LANCASTER | CA | 93536-9259 |
| GENE CHEN | 19757 STAGG ST | | WINNETKA | CA | 91306-2651 |
| GENE CROWNOVER | 30461 CINNAMON TEAL DR | | CANYON LAKE | CA | 92587-7761 |
| GENE HOUSE | 5491 TEHACHAPI WILLOW SPRINGS RD | | ROSAMOND | CA | 93560-7504 |
| GENE HOUSE | 5491 TEHACHAPI WILLOW SPRINGS RD | | ROSAMOND | CA | 93560-7504 |
| GENE HUDSPETH | 7664 S DANFORTH AVE | | TUCSON | AZ | 85747-9237 |
| GENE MELCHERS | PO BOX 1468 | | ROSAMOND | CA | 93560-1468 |

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| GENE PICOU | 40432 11TH ST W | | | PALMDALE | CA | 93551-2017 |
| GENEVIE ROTONDO | 20 SUMMERFIELD ST | | | THOUSAND OAKS | CA | 91360-2916 |
| GENEVIVE ZAVALA | 6781 GASKELL RD | | | ROSAMOND | CA | 93560-7132 |
| GENZ DEVELOPMENT INC | 2007 S BEVERLY GLEN BLVD APT 301 | | | LOS ANGELES | CA | 90025-5138 |
| GEORGE ADAMS | 6500 150TH ST W | | | ROSAMOND | CA | 93560-7136 |
| GEORGE AMAYA | 24072 CHAPARRAL AVE | | | BORON | CA | 93516-1302 |
| GEORGE CHRISTMANN | 1201 SCIOTO RD | APT 226A | | SEAL BEACH | CA | 90740-3247 |
| GEORGE COPELAND | PO BOX 1244 | | | ROSAMOND | CA | 93560-1244 |
| GEORGE CRAIG | PO BOX 2553 | | | ROSAMOND | CA | 93560-2553 |
| GEORGE CURTIS | 3680 JASMINE AVE | | | ROSAMOND | CA | 93560-7675 |
| GEORGE DIAZ | 2381 46TH ST W | | | ROSAMOND | CA | 93560-6277 |
| GEORGE ELIAN | 25531 PEMBROOK PL | | | SANTA CLARITA | CA | 91350-3025 |
| GEORGE ELLIS | 64 IDELL CT | | | BYRON | GA | 31008-5380 |
| GEORGE FOLCK | 355 E GLADSTONE ST | | | SAN DIMAS | CA | 91773-1902 |
| GEORGE GUTIERREZ | 3137 E AVENUE Q 14 | | | PALMDALE | CA | 93550 |
| GEORGE HATFIELD | 818 60TH ST W | | | ROSAMOND | CA | 93560-6910 |
| GEORGE HIGH | 3545 PASEO DE FRANCISCO UNIT 230 | | | OCEANSIDE | CA | 92056-4174 |
| GEORGE JONES | 13823 EMORY DR | | | WHITTIER | CA | 90605-1014 |
| GEORGE JONES | 9801 CIMA MESA RD | | | LITTLEROCK | CA | 93543-3634 |
| GEORGE KLECHEFSKI | 1112 LAKEMOOR DR | | | SAINT PAUL | MN | 55129-5307 |
| GEORGE KOSTOPOULOS | 24422 TAMARISK AVE | | | BORON | CA | 93516-1358 |
| GEORGE LIZOTTE | 3824 KNOX AVE | | | ROSAMOND | CA | 93560-6412 |
| GEORGE LUJAN | 8748 W ROSAMOND BLVD | | | ROSAMOND | CA | 93560-6972 |
| GEORGE MATSUI | 325 S BOYLE AVE | | | LOS ANGELES | CA | 90033-3812 |
| GEORGE MLINAR | 24360 JUNIPER AVE | | | BORON | CA | 93516-1364 |
| GEORGE RICHARDSON | 16761 FOOTHILL AVE | | | NORTH EDWARDS | CA | 93523-3535 |
| GEORGE SHIGENAGA | 101 KANANI RD | APT 129 | | KIHEI | HI | 96753-6807 |
| GEORGE SKELTON | HCR 3 BOX 352-C | | | ROSAMOND | CA | 93560 |
| GEORGE STEMWEDEL | 4766 45TH ST W | | | ROSAMOND | CA | 93560-6494 |
| GEORGE TAPIA | 7137 GASKELL RD | | | ROSAMOND | CA | 93560-7031 |
| GEORGE WEBB | 9937 W AVENUE A | | | ROSAMOND | CA | 93560-7371 |
| GEORGE WILSON | 6012 SULTANA AVE | | | TEMPLE CITY | CA | 91780-1549 |
| GEORGE YEE | 8538 LA MADRINA DR | | | ROSEMEAD | CA | 91770-4302 |
| GEORGIA ELIOPULOS | 42225 104 ST W STE 101 | | | LANCASTER | CA | 93534 |
| GEORGINA FABER | 3882 TRAVELER DR | | | SARALAND | AL | 36571-9556 |
| GEORGINA FEBER | 1882 140TH ST W | | | ROSAMOND | CA | 93560-7074 |
| GEORGINA HADDEN | 9344 E AVENUE T 2 | | | LITTLEROCK | CA | 93543-2203 |
| GERALD BIGALK | 44133 LIGHTWOOD AVE | | | LANCASTER | CA | 93534-4228 |
| GERALD BROOKS | 9241 W AVENUE A | | | ROSAMOND | CA | 93560-7083 |
| GERALD CRIST | 3640 E AVENUE H2 | | | LANCASTER | CA | 93535-1630 |
| GERALD GODDE | 470 90TH ST W | | | ROSAMOND | CA | 93560-7084 |
| GERALD HENRY | 44606 SIERRA HWY | | | LANCASTER | CA | 93534-3556 |
| GERALD HYNEMAN | PO BOX 1509 | | | WELDON | CA | 93283-1509 |
| GERALD ROGERS | PO BOX 720283 | | | PINON HILLS | CA | 92372-0283 |
| GERALD SCHOENFELD | 3020 DIXON ST | | | ROSAMOND | CA | 93560-6180 |
| GERALD SMITH | 191 HAYES ST | | | BENTON | KY | 42025-6677 |
| GERALD STEMPFLEY | 45731 48TH ST W | | | LANCASTER | CA | 93536-8339 |
| GERALD WESLEY | PO BOX 2843 | | | SANTA CLARITA | CA | 91386-2843 |
| GERALD WRIGHT | 13004 PAWNEE RD | | | APPLE VALLEY | CA | 92308-5776 |
| GERALDINE NAKATANI | 4918 SUMMIT VIEW LN | | | FAIR OAKS | CA | 95628-6578 |
| GERALDING HEMMERLING | 369 HOMEWOOD RD | | | LOS ANGELES | CA | 90049-2711 |
| GERARD CONROY | 29669 LANCASTER RD | | | LANCASTER | CA | 93536-9016 |
| GERARDO ROMERO | 7360 W AVENUE G | | | LANCASTER | CA | 93536-8618 |
| GERDA STYRMAN | PO BOX 1745 | | | SAN JUAN CAPO | CA | 92693-1745 |
| GERMAN LOAISIGA | PO BOX 900031 | | | PALMDALE | CA | 93590-0031 |
| GERNER GEORGE E ; JO G / GERNER TRUST | 27939 PINE ROCK RD | | | PEARBLOSSOM | CA | 93553-3433 |
| GERRI ZIEL | 28714 CRUTHERS CREEK RD | | | PEARBLOSSOM | CA | 93553-3426 |
| GERTRUD CLARK | 24209 CHAPARRAL AVE | | | BORON | CA | 93516-1305 |
| GERTRUDE DIONNE | 805 E AVENUE K STE 109 PMB 126 | | | LANCASTER | CA | 93535-4733 |
| GERTRUDE VANDAM | 9711 E AVENUE F8 | | | LANCASTER | CA | 93535-7913 |
| GERZAHIN GASPAR | 7245 SHOUP AVE | | | WEST HILLS | CA | 91307-1735 |
| GEZALYAN ARMEN | 48419 190TH ST W | | | LANCASTER | CA | 93536-9736 |
| GHASSAN QURA | 511 CYPRESS AVE | | | MILLBRAE | CA | 94030-1208 |
| GIANG HONG | 4817 FIR AVE | | | SEAL BEACH | CA | 90740-3012 |
| GIBBS JOHNNY R / GIBBS LISA R | 18106 E AVENUE O | | | LAKE LOS ANGELES | CA | 93591-3804 |
| GIBRALTER INVESTMENT PROPERTIES | PO BOX 517 | | | AGOURA HILLS | CA | 91376-0517 |
| GILBERT JOE D / GILBERT NANCY R | 6851 W AVENUE I | | | LANCASTER | CA | 93536-8319 |
| GILBERT VANHORN | PO BOX 207 | | | LLANO | CA | 93544-0207 |
| GILDARDO GUEVARA | PO BOX 399 | | | ROSAMOND | CA | 93560-0399 |
| GILLI ROY | PO BOX 5124 | | | LANCASTER | CA | 93539-5124 |
| GILLIAM JACK / GILLIAM DELMA | 40802 SLATE CT | | | PALMDALE | CA | 93551-1805 |
| GILMOUR PIKE ENTERPRISES INC | PO BOX 232 | | | CASTAIC | CA | 91310-0232 |
| GIRON WILLIAM G | 1703 W AVENUE E | | | LANCASTER | CA | 93534-7401 |
| GISEL CHAVEZ | 4425 JASPER ST | | | LOS ANGELES | CA | 90032-2608 |
| GIUSEPPE FIORELLA | 1738 N AVON ST | | | BURBANK | CA | 91505-1503 |
| GIVENS CONSTANCE | GIVENS ROBERT C; JANET F | 12142 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4200 |
| GLADYS BORJA | 29204 LAS BRISAS RD | | | SANTA CLARITA | CA | 91354-1541 |
| GLADYS HARSHBARGER | 3524 E AVENUE R SPC 209 | | | PALMDALE | CA | 93550-5089 |
| GLEN RICHARDSON | 5420 62ND ST W | | | ROSAMOND | CA | 93560-6254 |
| GLENDA TERRILL | PO BOX 320 | | | BORON | CA | 93596-0320 |
| GLENDA WILLIS | 19436 GASKELL RD | | | ROSAMOND | CA | 93560-7289 |
| GLENN HOWARD | 8412 POPPY BLVD | | | CALIF CITY | CA | 93505-2021 |
| GLENN HULSE | 38701 BANYAN PL | | | MORENO VALLEY | CA | 92551 |
| GLENN TAYLOR | 35967 53RD ST E | | | PALMDALE | CA | 93552-6333 |
| GLENN YAMASHIRO | 4828 LOOP CENTRAL DR | | | HOUSTON | TX | 77081-2212 |
| GLENNY MINAMI | 0 2F 1 11 AN HO RD SEC 1 | TAIPEI | TAIWAN R O C | | | |
| GLORIA ALESSO | PO BOX 1839 | | | LANCASTER | CA | 93539 |

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|---|---|---|---|---|---|
| GLORIA CALDERA | 110 LIME ST | | INGLEWOOD | CA | 90301-2618 |
| GLORIA DELORIS | 28105 ROBIN AVE | | SAUGUS | CA | 91350-2049 |
| GLORIA HANES | 42016 SILVER PUFFS DR | | QUARTZ HILL | CA | 93536-7301 |
| GLORIA KISLIG | 31951 AVENIDA EVITA | | SAN JUAN CAPO | CA | 92675-3901 |
| GLORIA MOORE | 12469 EL MIRAGE ST | | BORON | CA | 93516-1354 |
| GLORIA PEREZ | 7408 AMIGO AVE | | RESEDA | CA | 91335-2810 |
| GLORIA RODRIGUEZ | 9500 LAUREL CANYON BLVD | | ARLETA | CA | 91331-4213 |
| GLORIA RODRIGUEZ | 9500 LAUREL CANYON BLVD | | ARLETA | CA | 91331-4213 |
| GMAC MORTGAGE LLC | 500 ENTERPRISE RD # 150 | | HORSHAM | PA | 19044-3503 |
| GMAC MTG LLC | 1100 VIRGINIA DR | | FORT WASHINGTON | PA | 19034-3204 |
| GOEMZ GERVACIO | 47053 4TH ST W | | LANCASTER | CA | 93534-7500 |
| GOMEZ CARLOS E / GOMEZ DEBRA C | 9020 W IVESBROOK ST | | LANCASTER | CA | 93536-7708 |
| GOMEZ MANUELA | 14659 E AVENUE N | | LANCASTER | CA | 93535-7060 |
| GONZALES JAMES G | 3131 HOLLYDALE DR | | LOS ANGELES | CA | 90039-2307 |
| GONZALEZ ANGELA L / JACKSON SAMUEL | 36556 165TH ST E | | LLANO | CA | 93544-1136 |
| GONZALEZ DIANA | 43037 FLAG ST | | LANCASTER | CA | 93536-4651 |
| GONZALEZ ESMERALDA | 9159 E AVENUE E | | LANCASTER | CA | 93535-7935 |
| GONZALO ARELLANO | 21413 E AVENUE S | | PALMDALE | CA | 93591-4519 |
| GONZALO BARRERA | PO BOX 1599 | | ROSAMOND | CA | 93560-1599 |
| GOODYORK CORPORATION | 48303 20TH ST W OFC | | LANCASTER | CA | 93534-7424 |
| GOODYORK CORPORATION AND | 48303 20TH ST W OFC | | LANCASTER | CA | 93534-7424 |
| GORDON HILL | 22853 W AVENUE D11 | | LANCASTER | CA | 93536-9110 |
| GORDON POWERS | 2410 HIDDEN HILLS LN | | LINCOLN | CA | 95648-8212 |
| GORDON SMITH | PO BOX 763 | | ROSAMOND | CA | 93560-0763 |
| GORMAN JERRY A / GORMAN BEVERLY J | 48500 95TH ST E | | LANCASTER | CA | 93535-7932 |
| GORSKI RONALD / GORSKI ELIZABETH | 39358 VICKER CT | | PALMDALE | CA | 93551-1067 |
| GOULET TIMOTHY W / GOULET MELANIE G | 43055 FLAG ST | | LANCASTER | CA | 93536-4651 |
| GRACE BORJA | 1001 SEMMES AVE | | RICHMOND | VA | 23224-2245 |
| GRACE FINK | PO BOX 1254 | | ROSAMOND | CA | 93560-1254 |
| GRACE WILKINSON | PO BOX 1095 | | LANCASTER | CA | 93584-1095 |
| GRACIELA MACHUCA | PO BOX 500067 | | PALMDALE | CA | 93550-0067 |
| GRADY COLUMBIA | 1514 CARSON MESA RD | | PALMDALE | CA | 93550-9725 |
| GRAEFE KARIN S / GRAEFE DANIELLE K | 47755 180TH ST W | | LANCASTER | CA | 93536-9059 |
| GRANGER STEVEN B / GRANGER DONNA A | 30666 VALYERMO RD | | VALYERMO | CA | 93563 |
| GRANT ROBERT C / GRANT FAMILY | 37147 186TH ST E | | LLANO | CA | 93544-1414 |
| GRAY JERRY W / GRAY MISTY A | 29840 LANCASTER RD | | LANCASTER | CA | 93536-9029 |
| GRAY KEANYN | 2313 EVENING PRIMROSE AVE | | PALMDALE | CA | 93551-4184 |
| GREEN | 2331 DIAMOND HEAD WAY | | OXNARD | CA | 93036-7763 |
| GREEN DANNY J | 48001 140TH ST E | | LANCASTER | CA | 93535-8018 |
| GREEN DAVID ; VICTORIA L / GREEN FAMILY | 40508 154TH ST E | | LANCASTER | CA | 93535-7027 |
| GREENFIELD ADAM / PEREZ JOSE Z | 36563 165TH ST E | | LLANO | CA | 93544 |
| GREG SZERDI | PO BOX 455 | | LLANO | CA | 93544-0455 |
| GREG TOY | 35591 RAINLEAF CT | | ELIZABETH | CO | 80107-7855 |
| GREGG PINO | 1501 E AVENUE I SPC 112 | | LANCASTER | CA | 93535-2246 |
| GREGORIO SALVA | 337 E 213TH ST | | CARSON | CA | 90745-2132 |
| GREGORY BIRDSALL | 1680 KATEE LN | | PALMDALE | CA | 93550-9238 |
| GREGORY CALL | 26147 E AVENUE U10 | | LLANO | CA | 93544-1586 |
| GREGORY COVERDILL | 28650 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553 |
| GREGORY HARRISON | PO BOX 2328 | | ROSAMOND | CA | 93560-2328 |
| GREGORY HOGAN | 20350 WEST AVENUE F | | LANCASTER | CA | 93536 |
| GREGORY HOVATEN | PO BOX 370065 | | LAS VEGAS | NV | 89137-0065 |
| GREGORY JENKINS | 7916 GASKELL RD | | ROSAMOND | CA | 93560-7277 |
| GREGORY JENKINS | 7916 GASKELL RD | | ROSAMOND | CA | 93560-7277 |
| GREGORY MAKSHANOFF | PO BOX 2233 | | ROSAMOND | CA | 93560-2233 |
| GREGORY RIDGWAY | 5141 61ST ST W | | ROSAMOND | CA | 93560-6464 |
| GREGORY SHAW | PO BOX 903386 | | PALMDALE | CA | 93590-3386 |
| GREGORY WILLIAM A | GREGORY JENSEN FAMILY | 11215 JUNIPER MESA RD | LITTLEROCK | CA | 93543-3603 |
| GRIFFING STEVEN D / GRIFFING SHARON C | 10205 E AVENUE J | | LANCASTER | CA | 93535-8505 |
| GRIMES MICHAEL J | 50235 82ND ST W | | LANCASTER | CA | 93536-9439 |
| GRIVA AUDREY | 7808 W LANCASTER BLVD | | LANCASTER | CA | 93536-8110 |
| GROVEN DENNIS L / GROVEN FAMILY | 43036 42ND ST W | | LANCASTER | CA | 93536-5007 |
| GROVER JOHNSON | 10117 LESLIE AVE | | ROSAMOND | CA | 93560-7008 |
| GRP LOAN LLC | 360 HAMILTON AVE FL 5 | | WHITE PLAINS | NY | 10601-1811 |
| GS EQUITY RESOURCES 11 INC | PO BOX 8159 | | CALABASAS | CA | 91372-8159 |
| GUADALUPE HERNANDEZ | 3425 DAKOTA ST | | ROSAMOND | CA | 93560-7604 |
| GUADALUPE VIRGEN | PO BOX 1804 | | ROSAMOND | CA | 93560-1804 |
| GUERRA HERNAN A / GUERRA MARITZA J | 49155 3 POINTS RD | | LANCASTER | CA | 93536-9207 |
| GUILDA TEEL | PO BOX 366 | | LITTLEROCK | CA | 93543-0366 |
| GUOJUN PENG | 2246 CALLE OPALO | | SAN CLEMENTE | CA | 92673-5618 |
| GURCHARAN DHINSA | 3053 RANCHO VISTA BLVD # 101 | | PALMDALE | CA | 93551-4823 |
| GUSMAN DAVID A / GUSMAN APRIL L | 37122 THE GRVS | | PALMDALE | CA | 93551-6232 |
| GUSTAVO MENDOZA | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| GUSTAVO PRECIADO | 400 COUNTRYWIDE WAY | | SIMI VALLEY | CA | 93065-6298 |
| GUTIERREZ EUSEBIO S | 4155 E AVENUE H | | LANCASTER | CA | 93535-7716 |
| GUTIERREZ LUZ A / GUTIERREZ CARLOS G | 48813 100TH ST E | | LANCASTER | CA | 93535-7919 |
| GUTIERREZ RAFAEL | 11137 LAMBERT AVE | | EL MONTE | CA | 91731-1644 |
| GUY ADAMS | 1405 90TH ST W | | ROSAMOND | CA | 93560-7175 |
| GUY CAPUTO | PO BOX 1324 | | ROSAMOND | CA | 93560-1324 |
| GUY SCHMITZ | PO BOX 1877 | | ROSAMOND | CA | 93560-1877 |
| GUZMAN MAYRA / LOPEZ PEDRO | 167 E AVENUE F | | LANCASTER | CA | 93535-6411 |
| GUZMAN MAYRA / LOPEZ PEDRO | 167 E AVENUE F | | LANCASTER | CA | 93535-6411 |
| GWANG KIM | 4499 VIA MARISOL # 22B | | LOS ANGELES | CA | 90042-5147 |
| GWEN FROMBERG | PO BOX 2575 | | LANCASTER | CA | 93539-2575 |
| GWENDOLYN BROWN | PO BOX 305 | | ROSAMOND | CA | 93560-0305 |
| GWENDOLYN CRAIGCARPENTER | 4828 LOOP CENTRAL DR | | HOUSTON | TX | 77081-2212 |
| GYU LI ZHEN | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| H & N DEVELOPMENT CO INC | PO BOX 602 | | DENAIR | CA | 95316-0602 |

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| H U D | 2135 FRESNO ST STE 100 | | FRESNO | CA | 93721-1718 |
| HAE OH | 19151 LA QUINTA PL | | APPLE VALLEY | CA | 92308-2700 |
| HAENG LEE | 12650 INGENUITY DR | | ORLANDO | FL | 32826-2703 |
| HAGENBAUGH RANCH LLC ET AL | 305 PASADENA AVE | | SOUTH PASADENA | CA | 91030-2904 |
| HAKES | 845 E 1000 S | | SPANISH FORK | UT | 84660-2906 |
| HAKES | 25824 CHERRYHILL DR | | BORON | CA | 93516-1203 |
| HAL MCDERMOTT | PO BOX 1033 | | ROSAMOND | CA | 93560-1033 |
| HALLIE MCDERMOTT | 49505 60TH ST W | | LANCASTER | CA | 93536-9555 |
| HAMID FARAJI | 26511 MINAKOS DR | | MISSION VIEJO | CA | 92692 |
| HAMILL MICHAEL R / HAMILL VIRGINIA | 45615 140TH ST E | | LANCASTER | CA | 93535-8752 |
| HANCEL VILLATORO | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| HANNAH CHONG | 336 S OCCIDENTAL BLVD APT 607 | | LOS ANGELES | CA | 90057-1547 |
| HANSEN BUTTERWORTH DESSIE E | BUTTERWORTH EVERETT J | 756 E AVENUE G | LANCASTER | CA | 93535-5902 |
| HANSEN GORDON L / HANSEN SHIRLEY R | 742 E AVENUE G | | LANCASTER | CA | 93535-5902 |
| HANSEN SKIP M / HANSEN LISA M | 4536 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| HANSOO KYOUNG | 3600 WILSHIRE BLVD STE 2230 | | LOS ANGELES | CA | 90010-2632 |
| HAO PHAN | 959 JUNESONG WAY | | SAN JOSE | CA | 95133-1121 |
| HAPPY DIAMOND LAND LLC | 1054 S DE ANZA BLVD # 202 | | CUPERTINO | CA | 95014 |
| HARLEY HUTSON | 1900 KATHRYN CT | | BAKERSFIELD | CA | 93312-2820 |
| HAROLD BRAGG | 4890 90TH ST W | | ROSAMOND | CA | 93560-6958 |
| HAROLD DURIAN | 1705 BRIDGEPORT AVE | | CLAREMONT | CA | 91711-2519 |
| HAROLD LOUIE | PO BOX 3414 | | LANCASTER | CA | 93586-3414 |
| HAROLD NYHOLM | 2010 W K AVE # 807 | | LANCASTER | CA | 93536 |
| HAROLD TRUITT | 4584 50TH ST W | | ROSAMOND | CA | 93560-6259 |
| HAROLD WEBER | 2236 MERTON AVE | | LOS ANGELES | CA | 90041-1915 |
| HARPER SHARON D | 11246 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4219 |
| HARRIET SMITH | 8224 CALIFORNIA AVE | | WHITTIER | CA | 90602-2823 |
| HARRY FONG | PO BOX 17933 | | SHREVEPORT | LA | 71138-0933 |
| HARRY FRANCE | PO BOX 761 | | ROSAMOND | CA | 93560-0761 |
| HARRY OSBORNE | PO BOX 233 | | BORON | CA | 93596-0233 |
| HARRY STIRES | 1633 WABASSO WAY | | GLENDALE | CA | 91208-2440 |
| HARRY WORKMAN | PO BOX 760 | | ROSAMOND | CA | 93560-0760 |
| HARTSHORN WILEY W / PRIVATE WIL MAR 1994 | 10455 W AVENUE B | | LANCASTER | CA | 93536-9419 |
| HARVELL FAMILY TR | PO BOX 64 | | ROSAMOND | CA | 93560-0064 |
| HARVEY CASTILLO | 19638 KILFINAN ST | | PORTER RANCH | CA | 91326-4050 |
| HARVEY HUTCHINS | 5401 W AVENUE A | | ROSAMOND | CA | 93560-6985 |
| HATCH EVELYN / BLANKENSHIP EUGENE C | 14636 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3437 |
| HATCHER TINA L | 7005 E AVENUE G4 | | LANCASTER | CA | 93535-7847 |
| HAVEN GARY T / HAVEN MARY | 40823 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| HAWKINS RONALD A / HAWKINS SHELLEY L | 7878 W AVENUE G | | LANCASTER | CA | 93536-8621 |
| HECTOR DURAN | 3110 E GUASTI RD | | ONTARIO | CA | 91761-1219 |
| HEE SHIN | 4432 WOODLEIGH LN | | LA CANADA | CA | 91011-3541 |
| HEIDE CASTRO | 28029 PACIFIC ST | | HIGHLAND | CA | 92346-2762 |
| HEIDI EDWARDS | PO BOX 3302 | | LANCASTER | CA | 93586-0302 |
| HEIDI EDWARDS | PO BOX 3302 | | LANCASTER | CA | 93586-0302 |
| HELEN DUFFY | PO BOX 900554 | | PALMDALE | CA | 93590-0554 |
| HELEN GONZALEZ | 13745 HANWELL AVE | | BELLFLOWER | CA | 90706-2055 |
| HELEN HEFLIN | 5109 60TH ST W | | ROSAMOND | CA | 93560-6551 |
| HELEN LYONS | 36453 165TH ST E | | LLANO | CA | 93544-1133 |
| HELEN NELSON WITT | 24342 TAMARISK AVE | | BORON | CA | 93516-1350 |
| HELEN NICHOLS | 24147 TWENTY MULE TEAM RD | APT 801 | BORON | CA | 93516-1374 |
| HELENE FENTON | 3410 BROOKSHIRE RUN | | CORINTH | TX | 76210-4153 |
| HELLEN MUGISA | PO BOX 40866 | | DOWNEY | CA | 90239-1866 |
| HELTON NATHAN J / HELTON STACEY M | 11115 JUNIPER MESA RD | | LITTLEROCK | CA | 93543-3601 |
| HENRY ALLYN | 42130 22ND ST W | | QUARTZ HILL | CA | 93536-3311 |
| HENRY CASH | 23125 ERIEL AVE | | TORRANCE | CA | 90505-3155 |
| HENRY ESPINO | 3808 PARK VISTA CT | | ROSAMOND | CA | 93560-5912 |
| HENRY KVEEN | 1262 BRITTANY CROSS RD | | SANTA ANA | CA | 92705-3017 |
| HENRY MORRIS | PO BOX 606 | | ROSAMOND | CA | 93560-0606 |
| HENRY ZIMMERMAN | 3353 W AVENUE C | | LANCASTER | CA | 93536-9500 |
| HERBERT BEELER | 5204 W AVENUE L6 | | LANCASTER | CA | 93536-4442 |
| HERBERT LOPEZ | 16130 SHARONHILL DR | | WHITTIER | CA | 90604-3557 |
| HERBERT LYELL | PO BOX 161 | | HARTVILLE | MO | 65667-0161 |
| HERBERT WONG | 555 W MIDDLEFIELD RD | APT H102 | MOUNTAIN VIEW | CA | 94043-3508 |
| HERMAN CLARK | 24209 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| HERMELINDA GARCIA | 728 W AVENUE H8 | | LANCASTER | CA | 93534-1535 |
| HERMINIANO MACHACON | 3334 CASITAS AVE | | LOS ANGELES | CA | 90039-2208 |
| HERNANDEZ RAFAEL / HERNANDEZ MARTINA | 24013 E AVENUE P | | PALMDALE | CA | 93591-4207 |
| HERRADOR FELIPE | 702 STONEWOOD DR | | LOS BANOS | CA | 93635-9213 |
| HERRERA FILIMON / HERRERA ANGELINA | 15503 E AVENUE R | | LITTLEROCK | CA | 93543 |
| HERRERA JOHNNY P | 38240 6TH ST E | | PALMDALE | CA | 93550-4635 |
| HERSEY | 2359 100TH ST W | | ROSAMOND | CA | 93560-7011 |
| HERZOG DANIEL R / HERZOG SHERRI K | 44733 90TH ST E | | LANCASTER | CA | 93535-8410 |
| HIEU TRAN | 2520 GLEN IAN CT | | SAN JOSE | CA | 95148-4130 |
| HIGGINS JERRY / HIGGINS FENELLA T | 37129 THE GRVS | | PALMDALE | CA | 93551-6233 |
| HIGH DESERT BROADCASTING CO | 2284 S VICTORIA AVE | | VENTURA | CA | 93003-6641 |
| HIGH DESERT INVESTMENTS LLC | 1270 W 1130 S STE 145 | | OREM | UT | 84058-3833 |
| HIGH DESERT MARINE INC | 905 MISSION CREEK DR | | PALM DESERT | CA | 92211-5910 |
| HIGH VAULON | 3545 PASEO DE FRANCISCO UNIT 230 | | OCEANSIDE | CA | 92056-4174 |
| HIIESALU ALAN J | 28002 BUCHANNON RANCH RD | | LLANO | CA | 93544 |
| HILDA DIFIORE | 22714 KESWICK ST | | CANOGA PARK | CA | 91304-5431 |
| HILDA TOBAR | 150 ALLEGHENY CENTER MALL | | PITTSBURGH | PA | 15212-5335 |
| HILDELIZA MENENDEZ | 8403 STUDEBAKER DR | | PASCO | WA | 99301-6649 |
| HILL JAMES M | 8327 W AVENUE I | | LANCASTER | CA | 93536-8106 |
| HILMA BRASFIELD | 7327 GARDEN HWY | | YUBA CITY | CA | 95991-9419 |
| HILMA ERAZO | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| HIN HEESEONG | 4663 ROSEWOOD AVE APT 16 | | LOS ANGELES | CA | 90004-6330 |

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| HIROSHI JONES | 513 S LA BREA AVE | | INGLEWOOD | CA | 90301-2723 |
| HISHAM GHAZOULI | 3028 WHISPERWAVE CIR | | REDWOOD CITY | CA | 94065-8459 |
| HOA TRAN | 19351 HICKORY LN | | HUNTINGTN BCH | CA | 92646-2746 |
| HOANG TAM | 5421 PINE AVE | | CHINO HILLS | CA | 91709-6505 |
| HOEPPNER KARL A / HOEPPNER DORIS E | 47670 65TH ST E | | LANCASTER | CA | 93535-7858 |
| HOFF R E ; S J LIVING TRUST | 11111 MANZANITA MESA RD | | LITTLEROCK | CA | 93543-4230 |
| HOLGERSON BILL | 49195 265TH ST W | | LANCASTER | CA | 93536-9254 |
| HOLLOWAY ROBERT D / HOLLOWAY DARLENE J | 47661 50TH ST E | | LANCASTER | CA | 93535-7704 |
| HOLLY DIXON | 5595 CHARAN RD | | ROSAMOND | CA | 93560-6952 |
| HOLY TRINITY AFRICAN METHODIST | EPUSCOPAL CHURCH | 18512 E AVENUE Q | PALMDALE | CA | 93591-4309 |
| HOOYERINK HENRY J JR / HOOYERINK SUSAN A | 45120 95TH ST W | | LANCASTER | CA | 93536-7710 |
| HORNER | 24222 SAGE AVE | | BORON | CA | 93516-1334 |
| HORTENCIA CAPILLA | 6542 GASKELL RD | | ROSAMOND | CA | 93560-7131 |
| HOSSIE VAN HORM | 24122 SAGE AVE | | BORON | CA | 93516-1332 |
| HOUSEHOLD FIN CORP OF CA | 931 CORPORATE CENTER DR | | POMONA | CA | 91768-2642 |
| HOWARD HALLINAN | 12764 AMBER CREEK CIR | | VICTORVILLE | CA | 92395-9070 |
| HOWARD PATRICI L | 14311 E AVENUE J | | LANCASTER | CA | 93535-7093 |
| HOWARD UEDA | 2060 ALIHILANI PL | | HONOLULU | HI | 96822-2002 |
| HOWEY KERRY N | 43049 FLAG ST | | LANCASTER | CA | 93536-4651 |
| HOYOS FRANK A | 47037 4TH ST W | | LANCASTER | CA | 93534-7500 |
| HSBC BANK USA | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| HSBC MTG SVCS INC | 931 CORPORATE CENTER DR | | POMONA | CA | 91768-2642 |
| HSU YANG | 2530 GREENFIELD AVE | | ARCADIA | CA | 91006-5229 |
| HUDOCK MICHAEL | 18711 W AVENUE E4 | | LANCASTER | CA | 93536-9050 |
| HUETTEN PAUL | 49501 90TH ST W | | LANCASTER | CA | 93536-9408 |
| HUGHES ARDEN P | 44007 40TH ST E | | LANCASTER | CA | 93535-8107 |
| HUGHES CHARLES; WINNIE M | HUGHES FAMILY | 49001 100TH ST E | LANCASTER | CA | 93535-7918 |
| HUGHES LAWRENCE L | 39408 185TH ST E | | PALMDALE | CA | 93591-4315 |
| HUGHES MICHAEL C / HUGHES WANDA J | 45340 95TH ST W | | LANCASTER | CA | 93536-8003 |
| HUI KIM | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| HULL ALAN D / HULL WANDA | 18839 W AVENUE B8 | | LANCASTER | CA | 93536-9284 |
| HUNT FAMILY TR | 7915 DOGWOOD AVE | | ROSAMOND | CA | 93560-7240 |
| HUNTER LIVING TRUST | 9812 LA CANADA WAY | | SUNLAND | CA | 91040-1615 |
| HURDLE CELIA / HURDLE LESLIE | 27811 JUBILEE RUN RD | | PEARBLOSSOM | CA | 93553-3438 |
| HUSTON DOUGLAS C / HUSTON PAMELA L | 23004 LANCASTER RD | | LANCASTER | CA | 93536-9023 |
| HUTH-TANNER MILLER | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| HUYNH VINH | 0 PLANTAIN LN | | PALMDALE | CA | 93551 |
| HWAL CHUNG | 26075 BATES PL | | STEVENSON RANCH | CA | 91381-1119 |
| HYO OH | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| HYON WU | 24600 GARDENSTONE LN | | WEST HILLS | CA | 91307-3808 |
| HYPERION FUND | PO BOX 8412 | | CALABASAS | CA | 91372-8412 |
| HYUN ROE | 408 S 289TH ST | | FEDERAL WAY | WA | 98003-3609 |
| HYUNG KANG | 912 CRENSHAW BLVD | | LOS ANGELES | CA | 90019-1937 |
| I B PROPERTY HOLDINGS LLC | 4425 PONCE DE LEON BLVD FL 5 | | CORAL GABLES | FL | 33146-1837 |
| IDA SHERMAN | 1170 LA JOLLA DR | | THOUSAND OAKS | CA | 91362-2221 |
| IDAN CASTIEL | 4828 LOOP CENTRAL DR | | HOUSTON | TX | 77081-2212 |
| IDMM | 22132 CRESTLINE TRL | | SANTA CLARITA | CA | 91390-5297 |
| IGMIDIO ESTEBAN | 9407 BURNET AVE | | NORTH HILLS | CA | 91343-2306 |
| IGNACIO CERVANTES | 2106 MADISON FLS | | SAN ANTONIO | TX | 78245-2236 |
| ILBOK KIM | 26054 E AVENUE U12 | | LLANO | CA | 93544-1583 |
| ILIE TARAU | PO BOX 2964 | | CORONA | CA | 92878-2964 |
| ILONKA RUIZ | 335 CAGEL ST | | ROSAMOND | CA | 93560-6955 |
| IMELDA CASTILLO | 8918 GAYNOR AVE | | NORTH HILLS | CA | 91343-3013 |
| IMELDA TRINIDAD | 40928 GRANITE ST | | PALMDALE | CA | 93551-1809 |
| INA KALINA | 27230 JEROME ST | | BORON | CA | 93516-1717 |
| INDYMAC BANK | PO BOX 7069 | | PASADENA | CA | 91109-7069 |
| INDYMAC BK FSB | 6900 BEATRICE DR | | KALAMAZOO | MI | 49009-9559 |
| INES MARIA | 5642 GOBI AVE | | ROSAMOND | CA | 93560-6971 |
| INGEBORG BRIGGS | 2538 LOWELL CT | | SIMI VALLEY | CA | 93065-5800 |
| INGRID VANDERHOPE | 14760 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3436 |
| INMYUNG LEE | 435 S CURSON AVE | APT 10J | LOS ANGELES | CA | 90036-5239 |
| INTERNATIONAL CHURCH OF THE | 1910 W SUNSET BLVD STE 200 | | LOS ANGELES | CA | 90026-3295 |
| INTERSTATE INDSTL HOLDINGS INC | 27424 HOMYR PL | | CANYON COUNTRY | CA | 91351-3709 |
| IONA KING | 6219 WILLOW AVE | | ROSAMOND | CA | 93560-7234 |
| IRA SERVICES CSTDN | 18180 SAGE CT | | SARATOGA | CA | 95070-4500 |
| IRENE DELGADO | 445 W PALMDALE BLVD STE L | | PALMDALE | CA | 93551-4509 |
| IRENE NELSON | 1213 1ST ST # 182 | | CORONADO | CA | 92118-1414 |
| IRIS GOMEZ | 19903 VANOWEN ST | | WINNETKA | CA | 91306-3931 |
| IRIT SHAMAM | 20819 EXHIBIT CT | | WOODLAND HILLS | CA | 91367-5206 |
| IRMA CARLE | 30701 LONGVIEW RD | | PEARBLOSSOM | CA | 93553-3476 |
| IRMA HUERTA | 554 W LANCASTER BLVD | | LANCASTER | CA | 93534-2534 |
| IRMA QUINTERO | 8401 GRAPE ST | | LOS ANGELES | CA | 90001-4131 |
| IRMA SHAW | 7202 DAWN RD | | ROSAMOND | CA | 93560-6458 |
| IRUKE UDENZE | 9100 S 5TH AVE | | INGLEWOOD | CA | 90305-2713 |
| ISABEL SANCHEZ | 3381 168TH ST W | | ROSAMOND | CA | 93560-6949 |
| ISABEL SOSA | 9016 CEDAR ST | | BELLFLOWER | CA | 90706-6402 |
| ISABELLA UTVICH | PO BOX 367 | | ROSAMOND | CA | 93560-0367 |
| ISIDORA GONZALEZ | 1324 W AVENUE L12 | | LANCASTER | CA | 93534-6927 |
| ISIDRO ACOSTA | 7969 STANSBURY AVE | | PANORAMA CITY | CA | 91402-5216 |
| ISNA SIDDIQUI | 4313 MANORVIEW CT | | MOORPARK | CA | 93021-2791 |
| ISRAEL GONZALEZ | 24979 CONSTITUTION AVE | APT 635 | VALENCIA | CA | 91381-1740 |
| ISRAEL HERNANDEZ | 8201 ZELZAH AVE | | RESEDA | CA | 91335-1553 |
| IVA RUSSELL | 3427 W 83RD ST | | INGLEWOOD | CA | 90305-1606 |
| IVAN HANSTAD | 269 CAGEL ST | | ROSAMOND | CA | 93560-6905 |
| IVAN KNEZEVIC | 624 W 17TH ST | | SAN PEDRO | CA | 90731-4717 |
| IZAGUIRRE CATHERINE W TRUST | 25614 MELVILLE CT | | STEVENSON RANCH | CA | 91381-1463 |
| J G REAL ESTATE INVESTMENTS LLC | 17743 WREN DR | | CANYON COUNTRY | CA | 91387-3827 |

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|---|---|---|---|---|---|
| J GARCIA | 14943 WEST AVENUE A | | ROSAMOND | CA | 93560 |
| J HOPPER | 42907 YEW ST | | LANCASTER | CA | 93536-4866 |
| JACALYN WERNER | 230 S ROSE ST | | ANAHEIM | CA | 92805-4137 |
| JACINTO DE HARO | 734 E IMPERIAL HWY | | LOS ANGELES | CA | 90059-2327 |
| JACK ALLUIS | 5265 61ST ST W | | ROSAMOND | CA | 93560-6479 |
| JACK BAYZE | 15200 E AVENUE R | | PALMDALE | CA | 93591-2935 |
| JACK BRIAN | PO BOX 355 | | LLANO | CA | 93544-0355 |
| JACK ENGLISH | PO BOX 114 | | BORON | CA | 93596-0114 |
| JACK FORBES | 228 55TH ST W | | ROSAMOND | CA | 93560-6525 |
| JACK HILL | 5656 ELIZABETH LAKE RD | | LEONA VALLEY | CA | 93551-7504 |
| JACK JENEWEIN | 5648 GOTHAM ST | | BELL GARDENS | CA | 90201-5413 |
| JACK LEMKE | 34385 ROAD 168 | | VISALIA | CA | 93292-9187 |
| JACK MILBURN | PO BOX 810 | | LITTLEROCK | CA | 93543-0810 |
| JACK SCHWEIZER | 22711 W AVENUE D13 | | LANCASTER | CA | 93536-9109 |
| JACK TRAVIS | 5284 64TH ST W | | ROSAMOND | CA | 93560-6261 |
| JACK WHITMER | 44611 70TH ST E | | LANCASTER | CA | 93535-8313 |
| JACKIE HINKLE | 2193 100TH ST W | | ROSAMOND | CA | 93560-7012 |
| JACKSON LARRY W / JACKSON CAROLYN D | 48737 120TH ST E | | LANCASTER | CA | 93535-8014 |
| JACKSON STEWART | 99 WYOMING ST | | BOULDER CITY | NV | 89005-2803 |
| JACKSON WAY | 24274 JUNIPER AVE | | BORON | CA | 93516-1329 |
| JACOBO HERIBERTO / VALENCIA GRISELDA | 3753 E AVENUE I | SPC 157 | LANCASTER | CA | 93535-2408 |
| JAIME ALARCON | 5857 WILLOW AVE | | ROSAMOND | CA | 93560-7262 |
| JAIME DELROSARIO | 8818 RESEDA BLVD | | NORTHRIDGE | CA | 91324-4039 |
| JAIME MICHEL | 1661 WORTHINGTON RD | | WEST PALM BEACH | FL | 33409-6488 |
| JAIME QUIROZ | PO BOX 172 | | PEARBLOSSOM | CA | 93553-0172 |
| JAIME TYCANGCO | 609 BALBOA ST | | WEST COVINA | CA | 91791-2653 |
| JAKOBSEN JORGEN D / JAKOBSEN ELIA G | 49019 120TH ST E | | LANCASTER | CA | 93535-8012 |
| JAKOBSEN JORGEN D / JAKOBSEN ELLA G | 11337 E AVENUE E | | LANCASTER | CA | 93535-8005 |
| JALLO DAVID G | 28536 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3423 |
| JAMALASFARJANINEJAD LISSETTE | 44040 42ND ST W | | LANCASTER | CA | 93536-5869 |
| JAMES ARMBRUSTER | PO BOX 884 | | ROSAMOND | CA | 93560-0884 |
| JAMES ATCHISON | 2020 60TH ST W | | ROSAMOND | CA | 93560-6561 |
| JAMES BARNES | 45460 070 ST W | | LANCASTER | CA | 93536 |
| JAMES BENDER | 6018 FIRMAMENT AVE | | ROSAMOND | CA | 93560-6548 |
| JAMES BRADFORD | 1111 BEECHDALE DR UNIT A | | PALMDALE | CA | 93551-3822 |
| JAMES BURDETTE | 13677 W AVENUE A | | ROSAMOND | CA | 93560-7270 |
| JAMES CALKINS | 9645 BUCKHORN AVE | | ROSAMOND | CA | 93560-7529 |
| JAMES CARMELO A / JAMES MARY C | 4550 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| JAMES CLEMENTS | 24181 TAMARISK AVE | | BORON | CA | 93516-1345 |
| JAMES COLOVIN | PO BOX 2486 | | LANCASTER | CA | 93539 |
| JAMES DAVIS | 71 MONTWOOD WAY | | OAKLAND | CA | 94605-5419 |
| JAMES DAWSON | 22123 STATE HIGHWAY 58 | | HINKLEY | CA | 92347-9511 |
| JAMES DECKERT | PO BOX 1261 | | ROSAMOND | CA | 93560-1261 |
| JAMES DUNN | PO BOX 3491 | | QUARTZ HILL | CA | 93586-3491 |
| JAMES DYKE | 5920 GEORGE AVE | | ROSAMOND | CA | 93560-6909 |
| JAMES DYKE | 5920 GEORGE AVE | | ROSAMOND | CA | 93560-6909 |
| JAMES EDWARDS | PO BOX 3302 | | LANCASTER | CA | 93586-0302 |
| JAMES EDWARDS | PO BOX 3302 | | LANCASTER | CA | 93586-0302 |
| JAMES HAMPTON | PO BOX 5958 | | LANCASTER | CA | 93539-5958 |
| JAMES HANTSKE | 7683 CIRCULO SEQUOIA | | CARLSBAD | CA | 92009-8472 |
| JAMES HART | 1682 60TH ST W | | ROSAMOND | CA | 93560-6957 |
| JAMES HOLZER | 5570 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-6559 |
| JAMES HSU | 505 MARIGOLD AVE | | CORONA DEL MAR | CA | 92625-2408 |
| JAMES JO ANN | 6725 W AVENUE H12 | | LANCASTER | CA | 93536-8325 |
| JAMES KENDALL / BRADFORD ROSALYN | 2330 CARMELIA ST | | PALMDALE | CA | 93550 |
| JAMES KENYON | 12346 SIERRA VIEW ST | | BORON | CA | 93516-1342 |
| JAMES KYLE | 12345 E AVENUE J | | LANCASTER | CA | 93535-8704 |
| JAMES MARCIANO | 2696 SASHA CT | | SIMI VALLEY | CA | 93063-2245 |
| JAMES MAUPIN | PO BOX 900007 | | PALMDALE | CA | 93590-0007 |
| JAMES MORLET | 601 5TH AVE | | SCOTTSBLUFF | NE | 69361-3581 |
| JAMES PIERCE | PO BOX 399 | | SOMIS | CA | 93066-0399 |
| JAMES PLETCHER | 18100 CASTLE BUTTE RD | | EDWARDS | CA | 93523-3200 |
| JAMES REUTER | 7362 W AVENUE G | | LANCASTER | CA | 93536-8618 |
| JAMES RICHEY | 24358 TAMARISK AVE | | BORON | CA | 93516-1350 |
| JAMES SEALE | 37746 SMOKE TREE ST | | PALMDALE | CA | 93552-3835 |
| JAMES TENINTY | PO BOX 24 | | LANCASTER | CA | 93584-0024 |
| JAMES TRIBUZI | 323 N REESE PL | | BURBANK | CA | 91506-2141 |
| JAMES VERNETTI | 5021 W AVENUE L14 APT 1 | | QUARTZ HILL | CA | 93536-3688 |
| JAMES VICKREY | 83 127TH ST W | | ROSAMOND | CA | 93560-8201 |
| JAMES WELLING | PO BOX 89 | | BORON | CA | 93596-0089 |
| JAMES WILKINS | 15145 BEARTREE ST | | FONTANA | CA | 92336-4404 |
| JAMI WIGGS | 16915 FOOTHILL AVE | | EDWARDS | CA | 93523-3532 |
| JAMIE BRECKENRIDGE | 24157 CHAPARRAL AVE | | BORON | CA | 93516-1303 |
| JAMIE DEWAR | 12249 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| JAMIE MILLER | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| JANE ANGELILLO | 1935 HILL DR | | LOS ANGELES | CA | 90041-1240 |
| JANE DUVALL | 100 DAVID RANCH RD | | THEODOSIA | MO | 65761-6351 |
| JANE KEEVER | 710 E OLDFIELD ST | | LANCASTER | CA | 93535-3244 |
| JANE SHU | 2780 LAKE VISTA DR | | LEWISVILLE | TX | 75067-3884 |
| JANE WILLIAMS | 3812 50TH ST W | | ROSAMOND | CA | 93560-6489 |
| JANE WILLIAMS | PO BOX 1442 | | ROSAMOND | CA | 93560-1442 |
| JANE WONG | 2506 SPRECKELS LN | | REDONDO BEACH | CA | 90278-5337 |
| JANE ZEOK | 2774 65TH ST W | | ROSAMOND | CA | 93560-6926 |
| JANET ANDERSON | 386 EL ENCANTO DR | | PASADENA | CA | 91107-5308 |
| JANET ELIOPULOS | 42225 N ST WEST # 101 | | LANCASTER | CA | 93534 |
| JANET GARDNER | 4600 REGENT BLVD STE 200 | | IRVING | TX | 75063-2478 |
| JANET LOGAN | PO BOX 60 | | ROSAMOND | CA | 93560-0060 |

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|---|---|---|---|---|
| JANET LYMAN | PO BOX 14526 | LONG BEACH | CA | 90853-4526 |
| JANET MASON | 7845 ELDER AVE | ROSAMOND | CA | 93560 |
| JANET MC DONALD | 2316 67TH ST W | ROSAMOND | CA | 93560-7230 |
| JANET PERRY | 9642 E AVENUE S14 | LITTLEROCK | CA | 93543-2309 |
| JANET SEBELLITA | PO BOX 247 | ROSAMOND | CA | 93560-0247 |
| JANET SHIPLEY | PO BOX 634 | PEARBLOSSOM | CA | 93553-0634 |
| JANET SULEK | 455 W AVENUE G | LANCASTER | CA | 93534-7607 |
| JANICE HARMON | 194 MITEY MITE LN | RICHMOND | CA | 94803-2536 |
| JANICE LANE | 207 127TH ST W | ROSAMOND | CA | 93560-8202 |
| JANICE PIERCE | PO BOX 399 | SOMIS | CA | 93066-0399 |
| JANICE SEWELL | 12401 SIERRA VIEW ST | BORON | CA | 93516-1344 |
| JANICE SYLVIES | 4546 W AVENUE M14 | QUARTZ HILL | CA | 93536-2432 |
| JANICE TAPIA | 1101 71ST ST W | ROSAMOND | CA | 93560-7032 |
| JANICE TIERNEY | 24315 SAGE AVE | BORON | CA | 93516-1335 |
| JANIS GREENLEE | PO BOX 2345 | NEVADA CITY | CA | 95959-1946 |
| JANNA PETERSON | 2222 SAN MARINO DR | BAKERSFIELD | CA | 93309-4928 |
| JAON PALUMBO | 5526 CORDIVA CT | LANCASTER | CA | 93536-4456 |
| JASON BOYETT | 24274 SAGE AVE | BORON | CA | 93516-1334 |
| JASON BROWNLEE | 14677 VIA BETTONA # 110 844 | SAN DIEGO | CA | 92127-4809 |
| JASON CHO | 11450 WISTFUL VISTA WAY | NORTHRIDGE | CA | 91326-4183 |
| JASON FEALY | 24451 JOSHUA AVE | BORON | CA | 93516-1326 |
| JASON MANNING | 24451 TAMARISK AVE | BORON | CA | 93516-1351 |
| JASON POPE | 25022 CORIANDER CT | STEVENSON RNH | CA | 91381-2215 |
| JASON WONG | 4772 PROSPECT AVE | YORBA LINDA | CA | 92886-2124 |
| JASWINDER DHINSA | 3053 RANCHO VISTA BLVD # 101 | PALMDALE | CA | 93551-4823 |
| JAUNCIE WHITFIELD | 29112 S HIGHMORE AVE | RCH PALOS VRD | CA | 90275-2024 |
| JAVIER MACHUCA | PO BOX 500067 | PALMDALE | CA | 93550-0067 |
| JAVIER RIVAS | PO BOX 1740 | TEMPLE CITY | CA | 91780-7740 |
| JAY ESHBACH | PO BOX 749 | TEHACHAPI | CA | 93581-0749 |
| JAY FALVO | PO BOX 548 | ROSAMOND | CA | 93560-0548 |
| JAY RIGGS | 6109 EL DORADO AVE | ROSAMOND | CA | 93560-6457 |
| JAY SILMAN | PO BOX 324 | ROSAMOND | CA | 93560-0324 |
| JAY SOLOMAN | PO BOX 901556 | PALMDALE | CA | 93590-1556 |
| JAY SOLOMON | PO BOX 3327 | QUARTZ HILL | CA | 93586-0327 |
| JAYAMOL PACHI | 10118 HANNA AVE | CHATSWORTH | CA | 91311-2815 |
| JEAN HARRIS | PO BOX 2117 | ROSAMOND | CA | 93560-2117 |
| JEAN HOOK | 35020 SMALL RD | PALMDALE | CA | 93550-9736 |
| JEAN LESTER | 446 SAN VICENTE BLVD UNIT 201 | SANTA MONICA | CA | 90402-1712 |
| JEAN TAYLOR | 5132 BRYNHURST AVE | LOS ANGELES | CA | 90043-1804 |
| JEANETTE HOLLIS | 3333 80TH ST W | ROSAMOND | CA | 93560-7388 |
| JEANETTE ZACK | PO BOX 453 | LAKE HUGHES | CA | 93532-0453 |
| JEANNE FORDICE | PO BOX 8 | VALYERMO | CA | 93563-0008 |
| JEANNE GREGORY | 3653 W AVENUE B | ROSAMOND | CA | 93560 |
| JEANNE SCHMITZ | PO BOX 1877 | ROSAMOND | CA | 93560-1877 |
| JEFFERIES DAVID K | 18159 W AVENUE E4 | LANCASTER | CA | 93536 |
| JEFFERY GODDE | 13104 BUCKHORN AVE | ROSAMOND | CA | 93560-7014 |
| JEFFERY MORRIS | 47930 26TH ST E | LANCASTER | CA | 93535-7605 |
| JEFFERY SNYDER | 33950 223RD ST E | LLANO | CA | 93544-1516 |
| JEFFREY ABATTIHARLOW | PO BOX 6163 | LANCASTER | CA | 93539-6163 |
| JEFFREY COX | 12246 SIERRA VIEW ST | BORON | CA | 93516-1340 |
| JEFFREY KIMBLOWSKI | 7720 HOLIDAY AVE | ROSAMOND | CA | 93560 |
| JEFFREY KING | 6209 GOBI AVE | ROSAMOND | CA | 93560-7133 |
| JEFFREY MARTINEAU | 1460 100TH ST W | ROSAMOND | CA | 93560-7089 |
| JEFFREY SKINNER | PO BOX 665 | LITTLEROCK | CA | 93543-0665 |
| JEFFREY THOMPSON | 1100 VIRGINIA DR | FORT WASHINGTON | PA | 19034-3204 |
| JEFFREY WILLIAMS | PO BOX 760 | ROSAMOND | CA | 93560-0760 |
| JEFFREY WILLIAMS | 14101 IRONE AVE | ROSAMOND | CA | 93560-7185 |
| JENNIFER BECKWITH | 1001 SEMMES AVE | RICHMOND | VA | 23224-2245 |
| JENNIFER DUKE | 7010 W AVENUE E4 | LANCASTER | CA | 93536-8821 |
| JENNIFER JAMES | 40438 FIELDCREST LN | PALMDALE | CA | 93551-2661 |
| JENNIFER JOHNSON | 12742 OSBORNE ST | BORON | CA | 93516-1843 |
| JENNIFER KINNGOTT | PO BOX 2538 | ROSAMOND | CA | 93560-2538 |
| JENNIFER MAYS | 3609 TIMOTHY PL | ANTIOCH | CA | 94509-5478 |
| JENNIFER PALUMBO | 5526 CORDIVA CT | LANCASTER | CA | 93536-4456 |
| JENNIFER VALASQUEZ | 762 70TH ST W | ROSAMOND | CA | 93560-7034 |
| JENNY KIM | 431 S HARVARD BLVD APT 303 | LOS ANGELES | CA | 90020-6300 |
| JENS IPSEN | 22647 VENTURA BLVD | WOODLAND HILLS | CA | 91364-1416 |
| JEON DEK H / JEON SOON K | 10645 E AVENUE W3 | LITTLEROCK | CA | 93543-3733 |
| JEONG SWARTZWELDER | 2662 WALLACE ST | SANTA CLARA | CA | 95051-3826 |
| JERALD HOLLIS | 3333 80TH ST W | ROSAMOND | CA | 93560-7388 |
| JERALDINE HERBERT | 24400 JOSHUA AVE | BORON | CA | 93516-1327 |
| JEREMEH JOB | 24180 CHAPARRAL AVE | BORON | CA | 93516-1304 |
| JEREMIAH HILL | 25824 CHERRYHILL DR | BORON | CA | 93516-1203 |
| JEREMY CABLE | 20301 CLUBVIEW CT | TEHACHAPI | CA | 93561-8222 |
| JERMAINE DAVIS | 44484 LOTUS LN | LANCASTER | CA | 93536 |
| JEROLD REEVES | 6226 EAGLE CT | LANCASTER | CA | 93536-4533 |
| JEROME JACKSON | 21836 WATER ST | CARSON | CA | 90745-2501 |
| JEROMY MANGUS | 5465 62ND ST W | ROSAMOND | CA | 93560-6254 |
| JERROLD GIBSON | 43061 FLAG ST | LANCASTER | CA | 93536-4651 |
| JERROLD RUBY | 685 LAUREL ST | ROSAMOND | CA | 93560-6981 |
| JERRY BUCHER | PO BOX 2083 | ROSAMOND | CA | 93560-2083 |
| JERRY BURNS | 3631 W AVENUE B | ROSAMOND | CA | 93560-7102 |
| JERRY DUVALL | 100 DAVID RANCH RD | THEODOSIA | MO | 65761-6351 |
| JERRY GALLEGOS | 27096 JEROME ST | BORON | CA | 93516-1632 |
| JERRY STUKAS | 5585 TOPAZ ST | LAS VEGAS | NV | 89120-3316 |
| JERRY UPDEGRAFT | 2020 CARSON MESA RD | PALMDALE | CA | 93550-9718 |
| JESS KNUTSON | 29853 LANCASTER RD | LANCASTER | CA | 93536-9029 |

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|---|---|---|---|---|
| JESS REEDER | 26855 ANDERSON ST | BORON | CA | 93516-1507 |
| JESSE CARLOS | 38704 206TH ST E | PALMDALE | CA | 93591-4522 |
| JESSIE DEATON | 4307 E LANE BLVD | LANCASTER | CA | 93535 |
| JESSIE DOREN | PO BOX 296 | DORRIS | CA | 96023-0296 |
| JESSIE JIM | 2194 E CYPRESS ST BLDG 2194 | COVINA | CA | 91724-2352 |
| JESSIE LOUIE | PO BOX 3414 | LANCASTER | CA | 93586-3414 |
| JESUS ALVAREZ | 6164 FIRMAMENT AVE | ROSAMOND | CA | 93560-6260 |
| JESUS BATRES | 2727 W ALAMEDA AVE | BURBANK | CA | 91505-4404 |
| JESUS CANYON RANCH LLC | 1900 MAIN ST STE 125 | IRVINE | CA | 92614-7323 |
| JESUS CARRASCO | 5836 HIDDEN TRAIL RD | ROSAMOND | CA | 93560-6917 |
| JESUS ELIZALDE | 26042 E AVENUE U8 | LLANO | CA | 93544-1584 |
| JESUS GARCES | 19426 LORNE ST | RESEDA | CA | 91335-1021 |
| JESUS GARCIA | 20618 COHASSET ST | CANOGA PARK | CA | 91306-2807 |
| JESUS GARCIA | 20618 COHASSET ST | CANOGA PARK | CA | 91306-2807 |
| JESUS GONZALEZ | 1245 BROAD AVE | WILMINGTON | CA | 90744-2619 |
| JESUS HERRERA | 5854 GASKELL RD | ROSAMOND | CA | 93560-7094 |
| JESUS MARCADO | 137 S ALEXANDRIA AVE APT 2 | LOS ANGELES | CA | 90004-5458 |
| JESUS NUNGARAY | 3212 FERN AVE | PALMDALE | CA | 93550-7912 |
| JESUS VALDEZ | 1305 E PALMDALE BLVD STE 1 | PALMDALE | CA | 93550-4853 |
| JESUS VENEGAS | 13330 CORCORAN ST | SAN FERNANDO | CA | 91340-2206 |
| JEWEL DAY | PO BOX 791 | ROSAMOND | CA | 93560-0791 |
| JI PARK | 27628 BEECHWOOD DR | SANTA CLARITA | CA | 91351-3466 |
| JILL ATCHISON | 2020 60TH ST W | ROSAMOND | CA | 93560-6561 |
| JILL BONZELL | PO BOX 1654 | ROSAMOND | CA | 93560-1654 |
| JILL FESSENDEN | PO BOX 285 | PEARBLOSSOM | CA | 93553-0285 |
| JILL KIMBLE | 43255 21ST ST W | LANCASTER | CA | 93536-5240 |
| JIM BASHOR | 1330 INSPIRATION DR | LA JOLLA | CA | 92037-6810 |
| JIM WILLIFORD | PO BOX 19 | ROSAMOND | CA | 93560-0019 |
| JIMMIE KNOX | 1316 CORONADO DR | BOULDER CITY | NV | 89005-2206 |
| JIMMY JONES | PO BOX 62 | ROSAMOND | CA | 93560-0062 |
| JIMMY LIBOON | 2122 N FLOWER ST | SANTA ANA | CA | 92706-2526 |
| JIMMY RUSSELL | PO BOX 1759 | ROSAMOND | CA | 93560-1759 |
| JIN YOO | 21270 E AVENUE O | PALMDALE | CA | 93591-4101 |
| JINWON KIM | 28648 DEER SPRINGS DR | SANTA CLARITA | CA | 91390-5741 |
| JJH 26 PALMDALE LLC ET AL | 620 E 8TH ST | LOS ANGELES | CA | 90014-2402 |
| JO ELLEN ALEXANDER | PO BOX 2000 | ROSAMOND | CA | 93560-2000 |
| JO TOUCHSTONE | 3105 85TH ST W | ROSAMOND | CA | 93560-6961 |
| JOAN HIGLEY | 818 SUMMERHILL CT | ENCINITAS | CA | 92024-5450 |
| JOAN SCHRAMM | 5359 E AVENUE I | LANCASTER | CA | 93535-8225 |
| JOAN SMITH | 2320 HUMBOLDT ST | LOS OSOS | CA | 93402-3502 |
| JOANNA BAILEY | 10937 EL DORADO AVE | ROSAMOND | CA | 93560-7293 |
| JOAQUIN ALATORRE | 10911 BERRY AVE | ANAHEIM | CA | 92804-6311 |
| JOAQUIN BORJA | 29204 LAS BRISAS RD | SANTA CLARITA | CA | 91354-1541 |
| JOBY PACHI | 10118 HANNA AVE | CHATSWORTH | CA | 91311-2815 |
| JODINE MULDER | 11878 JUNIPER HILLS RD | LITTLEROCK | CA | 93543-4207 |
| JOE GARCIA | 39012 VANANBEV WAY | PALMDALE | CA | 93551-3926 |
| JOE GILBERT | 6851 W AVENUE I | LANCASTER | CA | 93536-8319 |
| JOE LARA | 13547 VENTURA BLVD # 437 | SHERMAN OAKS | CA | 91423-3825 |
| JOE PAULEY | 5356 62ND ST W | ROSAMOND | CA | 93560 |
| JOE URENA | 14105 WEIDNER ST | ARLETA | CA | 91331-4459 |
| JOEL MEDINA | PO BOX 337 | LANCASTER | CA | 93584-0337 |
| JOHN A ALEXANDER TRUST | PO BOX 288 | CAYUCOS | CA | 93430-0288 |
| JOHN ALESSO | PO BOX 1839 | LANCASTER | CA | 93539 |
| JOHN ARREOLA | 1580 MIRA VALLE ST | MONTEREY PARK | CA | 91754-5324 |
| JOHN ATKINSON | 20339 RUSTON RD | WOODLAND HILLS | CA | 91364-5644 |
| JOHN BARILE | 2260 N GOWER ST | HOLLYWOOD | CA | 90068-2953 |
| JOHN BARNEY | PO BOX 1706 | SCOTTSBLUFF | NE | 69363-1706 |
| JOHN BELL | 24187 JOSHUA AVE | BORON | CA | 93516 |
| JOHN BOYD | 1401 60TH ST W | ROSAMOND | CA | 93560-6523 |
| JOHN BRUNO | 453 N LAZARD ST | SAN FERNANDO | CA | 91340-1922 |
| JOHN BUDRECKI | 264 STEDMAN PL | MONROVIA | CA | 91016-2167 |
| JOHN BUSS | 2839 EL CAMINITO | LA CRESCENTA | CA | 91214-2004 |
| JOHN CALANDRI | 6135 W AVENUE N STE M8 | PALMDALE | CA | 93551 |
| JOHN CASTAGNETTO | 1100 VIRGINIA DR | FORT WASHINGTON | PA | 19034-3204 |
| JOHN CLOSSON | 645 TABOR LN | SANTA BARBARA | CA | 93108-1536 |
| JOHN CRIM | 8756 SVL BOX | VICTORVILLE | CA | 92395-5179 |
| JOHN DEBS | PO BOX 2500 | LANCASTER | CA | 93539-2500 |
| JOHN DRUMMOND | 39201 COPRICE ST | PALMDALE | CA | 93551-4479 |
| JOHN ELIOPULOS | 42225 104 ST W STE 101 | LANCASTER | CA | 93534 |
| JOHN ELLENDER | PO BOX 7663 | RIVERSIDE | CA | 92513-7663 |
| JOHN FARLEY | PO BOX 247 | PEARBLOSSOM | CA | 93553-0247 |
| JOHN FAUGHT | 9416 OLEMA ST | TEMPLE CITY | CA | 91780-1341 |
| JOHN FETTERS | 10790 RANCHO BERNARDO RD | SAN DIEGO | CA | 92127-5705 |
| JOHN FRANCO | 2181 OAK ST | ROSAMOND | CA | 93560-6073 |
| JOHN GARFIELD | PO BOX 310 | LITTLEROCK | CA | 93543-0310 |
| JOHN GRAHAM | 20001 BIG PINES HWY | VALYERMO | CA | 93563-1002 |
| JOHN HARRELL | 6560 SHANNON RD | RIVERSIDE | CA | 92504-1427 |
| JOHN HEINATZ | 6329 105TH ST W | ROSAMOND | CA | 93560-6933 |
| JOHN HOLZER | 361 COUNTY ROAD 279 | NIOTA | TN | 37826-2303 |
| JOHN HOUGHTON | 5822 SUE AVE | ROSAMOND | CA | 93560-6969 |
| JOHN HOWARD | 5722 DAISY LN | PHELAN | CA | 92371-7061 |
| JOHN HUGHES | 41424 27TH ST W | PALMDALE | CA | 93551-1354 |
| JOHN JEFFERSON | 29240 E 126TH ST | PEARBLOSSOM | CA | 93553 |
| JOHN KARLIS | 797 BOXTHORN AVE | NEWBURY PARK | CA | 91320-5331 |
| JOHN KIMBROUGH | 4635 SWEETSER RD | ROSAMOND | CA | 93560-6454 |
| JOHN KLING | 18418 SANTA ISADORA ST | FOUNTAIN VLY | CA | 92708-5525 |
| JOHN KRIZAUSKAS | 12443 SIERRA VIEW ST | BORON | CA | 93516-1344 |

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|---|---|---|---|---|---|
| JOHN LING | 5631 TUFTS ST | | DAVIS | CA | 95618-7216 |
| JOHN LYONS | 36453 165TH ST E | | LLANO | CA | 93544-1133 |
| JOHN MCDONALD | 20451 E AVENUE R | | PALMDALE | CA | 93591-4517 |
| JOHN MCGOWAN | 1139 N REEDER AVE | | COVINA | CA | 91724-1621 |
| JOHN MILLER | PO BOX 701 | | ROSAMOND | CA | 93560-0701 |
| JOHN PERSONS | 30931 96TH ST E | | LITTLEROCK | CA | 93543-3632 |
| JOHN POSTHUMA | 1995 E VILLA ST | | PASADENA | CA | 91107-2335 |
| JOHN RANKIN | 7226 DAWN RD | | ROSAMOND | CA | 93560-6458 |
| JOHN RECA | 9364 W AVENUE G | | LANCASTER | CA | 93536-8623 |
| JOHN RICHARDSON | PO BOX 34 | | GORMAN | CA | 93243-0034 |
| JOHN ROBERTS | 11216 JUNIPER MESA RD | | LITTLEROCK | CA | 93543-3603 |
| JOHN ROBINSON | 22339 E AVENUE O | | PALMDALE | CA | 93591-4203 |
| JOHN SARLI | 29543 121ST ST E | | LITTLEROCK | CA | 93543-4260 |
| JOHN SMITH | PO BOX 2102 | | SEBASTOPOL | CA | 95473-2102 |
| JOHN STOLLAR | 7527 W AVENUE L11 | | LANCASTER | CA | 93536-7387 |
| JOHN SULLIVAN | 2130 25TH ST | | COOS BAY | OR | 97420-3570 |
| JOHN TILLIS | PO BOX 882 | | LITTLEROCK | CA | 93543-0882 |
| JOHN TINTOCALIS | 5620 MAGDA CT | | PALMDALE | CA | 93552-6304 |
| JOHN TUCKER | 4211 EAST AVENUE I | | LANCASTER | CA | 93535 |
| JOHN VARTANIAN | 2978 DIAMOND ST | | ROSAMOND | CA | 93560-6001 |
| JOHN VARTANIAN | 620 N 19TH ST | | MONTEBELLO | CA | 90640-3133 |
| JOHN VERGONA | 6716 HILLPARK DR APT 505 | | LOS ANGELES | CA | 90068-2120 |
| JOHN WAHLQUIST | 1801 PATTERSON RD | | ROSAMOND | CA | 93560-7038 |
| JOHN WARFIELD | 39797 AVENIDA MIGUEL OESTE | | MURRIETA | CA | 92563-5294 |
| JOHN WEST | 48406 90TH ST E | | LANCASTER | CA | 93535-7909 |
| JOHN WILLIAMS | 2918 65TH ST W | | ROSAMOND | CA | 93560 |
| JOHN WOODS | 46047 20TH ST E | | LANCASTER | CA | 93535-6002 |
| JOHN WYATT | 7834 DINKEY AVE | | ROSAMOND | CA | 93560-7053 |
| JOHN WYLY | 12162 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3493 |
| JOHNIE ARGO | 10810 4 WINDS RD | | JUNIPER HILLS | CA | 93543-3644 |
| JOHNNIE BOWER | 21409 ADAM DR | | TEHACHAPI | CA | 93561-8817 |
| JOHNNY GIBSON | PO BOX 81 | | PALO VERDE | CA | 92266-0081 |
| JOHNNY LAMBERRT | 28105 ROBIN AVE | | SAUGUS | CA | 91350-2049 |
| JOHNNY MENESES | PO BOX 1263 | | ROSAMOND | CA | 93560-1263 |
| JOHNNY ZAMRZLA | 48910 80TH ST W | | LANCASTER | CA | 93536-8740 |
| JOHNSON CALVIN I | 14561 E AVE N | | LANCASTER | CA | 93535 |
| JOHNSON DONALD A / JOHNSON SANDRA L | 40819 GRANITE ST | | PALMDALE | CA | 93551-1806 |
| JOHNSON DONALD R / JOHNSON AGUEDA | 9148 W AVENUE G | | LANCASTER | CA | 93536-8622 |
| JOHNSON GEORGE R / JOHNSON DONNA L | 40824 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| JOHNSON MARK A / JOHNSON CATHIE A | 46840 75TH ST W | | LANCASTER | CA | 93536-8625 |
| JOHNSON PHILLIP E / JOHNSON MARTHA D | 46400 50TH ST E | | LANCASTER | CA | 93535-7701 |
| JON OLIVER | 1131 FOOTHILL ST | | S PASADENA | CA | 91030-1719 |
| JON RAYMOND | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| JON TRAN | 624 S LASSEN CT | | ANAHEIM | CA | 92804-3123 |
| JONATHAN HOFFMAN | 1807 LATIGO CANYON RD | | MALIBU | CA | 90265-2751 |
| JONATHAN MANDELL | 13903 SYLVAN ST | | VAN NUYS | CA | 91401-2219 |
| JONATHAN MORAN | 40297 VICKER WAY | | PALMDALE | CA | 93551 |
| JONES ALFRED L | 38710 180TH ST E | | PALMDALE | CA | 93591-3705 |
| JONES DOROTHY F / JONES ROBERT ; DOROTHY | 6753 E AVENUE F | | LANCASTER | CA | 93535-7821 |
| JONG LEECHUNG | 1036 S SERRANO AVE # 201 | | LOS ANGELES | CA | 90006-2410 |
| JONI GREENE | 4444 E AVENUE R SPC 14 | | PALMDALE | CA | 93552-6705 |
| JORDAN HEATH / JORDAN JENNIFER | 18021 W AVENUE E4 | | LANCASTER | CA | 93536-9008 |
| JORDAN TRUST | C/O JORDAN PAVEL | 11545 JEFF AVENUE | LAKE VIEW TERRANCE | CA | 91342-6828 |
| JORGE MONTANO | 5872 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560-6917 |
| JORGE MUNOZ | 9755 BUCKHORN AVE | | ROSAMOND | CA | 93560-7299 |
| JOSAFAT PENALOZA | 30603 248TH ST E | | LLANO | CA | 93544-1587 |
| JOSE AREVALO | 7294 BACKUS RD | | MOJAVE | CA | 93501-7161 |
| JOSE AYALA | 12650 INGENUITY DR | | ORLANDO | FL | 32826-2703 |
| JOSE CHEVEZ | 9871 SAHARA AVE | | ROSAMOND | CA | 93560-7066 |
| JOSE DE ESTELA AYON | 24335 CHAPARRAL AVE | | BORON | CA | 93516-1307 |
| JOSE IBARRA | 5954 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| JOSE MARTINEZ | 9748 COZYCROFT AVE STE J | | CHATSWORTH | CA | 91311-4400 |
| JOSE MARTINEZ | 622 CAPISTRANO DR | | OCEANSIDE | CA | 92058-1104 |
| JOSE MORENO | 48841 E 12TH ST | | LANCASTER | CA | 93535 |
| JOSE PACHECO | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| JOSE PADRE | 2503 BEVERLY BLVD STE 2 | | LOS ANGELES | CA | 90057-1024 |
| JOSE REYNOSO | 4010 E AVENUE I | | LANCASTER | CA | 93535-8221 |
| JOSE SILVA | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| JOSE SORIANO | 1995 DEL CIERVO PL | | CAMARILLO | CA | 93012-4067 |
| JOSE TORRES | 3541 E AVENUE H | | LANCASTER | CA | 93535-1620 |
| JOSEFA CUDAL | 26910 SIERRA HWY | | NEWHALL | CA | 91321-2262 |
| JOSEFINA ESCOBAR | PO BOX 41 | | LEBEC | CA | 93243-0041 |
| JOSELITO AGUIRRE | 6551 RHODES AVE | | N HOLLYWOOD | CA | 91606-2315 |
| JOSEPH AGUILAR | STAR RT 1 BOX 179 | | ROSAMOND | CA | 93560 |
| JOSEPH BLACK | PO BOX 1088 | | ROSAMOND | CA | 93560-1088 |
| JOSEPH COOPER | 23821 COYOTE CT | | TEHACHAPI | CA | 93561-9213 |
| JOSEPH FOX | 263 SHOSHONE CT | | SAN JOSE | CA | 95127-1855 |
| JOSEPH GOMES | 1163 N ALEXANDRIA AVE | | LOS ANGELES | CA | 90029-1407 |
| JOSEPH GRIFFITH | 2957 HALLDALE AVE | | LOS ANGELES | CA | 90018-3140 |
| JOSEPH HAVLOCK | 738 ROYAL AVE | | SIMI VALLEY | CA | 93065-4349 |
| JOSEPH JOSEPH | 2126 HILLSTONE DR | | SAN JOSE | CA | 95138-2413 |
| JOSEPH KALINA | 27230 JEROME ST | | BORON | CA | 93516-1717 |
| JOSEPH LAZARO | PO BOX 548 | | ROSAMOND | CA | 93560-0548 |
| JOSEPH MCCALL | 225 WISTERIA CT | | ROSEVILLE | CA | 95678-1193 |
| JOSEPH MEROLA | PO BOX 75 | | BIG BEND | WV | 26136-0075 |
| JOSEPH SLOAN | PO BOX 4892 | | LANCASTER | CA | 93539-4892 |
| JOSEPH STRUTH | 44838 70TH ST E | | LANCASTER | CA | 93535-8312 |

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| JOSEPH TIPTON | PO BOX 754 | | ROSAMOND | CA | 93560-0754 |
| JOSEPHINE HALVORSEN | 5775 E LOS ANGELES AVE # 225 | | SIMI VALLEY | CA | 93063-5213 |
| JOSIE JOHNSON | 24373 TAMARISK AVE | | BORON | CA | 93516-1349 |
| JOVAN REYNALDO | 37909 DURANGO PL | | PALMDALE | CA | 93550-2477 |
| JOVITA LATUPAN | 5650 SHELLY ST | | PENSACOLA | FL | 32526-8095 |
| JOY AESCHBOCKER | 5807 HOLIDAY AVE | | ROSAMOND | CA | 93560-6572 |
| JOYCE CHANCELLOR | 43006 BLOOMINGPARK ST | | LANCASTER | CA | 93536-4645 |
| JOYCE COLOVIN | PO BOX 2486 | | LANCASTER | CA | 93539 |
| JOYCE HARTMANN | PO BOX 577 | | ROSAMOND | CA | 93560-0577 |
| JOYCE IMANAKA | PO BOX 1908 | | ROSAMOND | CA | 93560-1908 |
| JOYCE JANKE | 542 60TH ST W | | ROSAMOND | CA | 93560-6956 |
| JOYCE LEWIS | 887 VIA MANZANAS | | SAN LORENZO | CA | 94580-2835 |
| JOYCE SHULTS | PO BOX 537 | | ROSAMOND | CA | 93560-0537 |
| JPMORGAN CHASE BANK NA | 270 PARK AVE | | NEW YORK | NY | 10017-2014 |
| JPMORGAN CHASE BANK TR | 800 STATE HIGHWAY 121 BYP | | LEWISVILLE | TX | 75067-4180 |
| JUAN BERNAL | 46057 20TH ST E | | LANCASTER | CA | 93535-6002 |
| JUAN COLMENARES | 3513 SAN JACINTO AVE | | ROSAMOND | CA | 93560-6837 |
| JUAN FRANCO | PO BOX 363 | | ROSAMOND | CA | 93560-0363 |
| JUAN JAQUIAS | 2780 LAKE VISTA DR | | LEWISVILLE | TX | 75067-3884 |
| JUAN LELCESONA | PO BOX 902561 | | PALMDALE | CA | 93590-2561 |
| JUAN MEZA | 5901 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| JUAN PALOMO | 15031 GERMAIN ST | | MISSION HILLS | CA | 91345-2011 |
| JUAN PEREZ | 5104 62ND ST W | | ROSAMOND | CA | 93560-6552 |
| JUAN RIVERA | 9008 LEMONA AVE | | NORTH HILLS | CA | 91343-5515 |
| JUAN TORRES | 309 S HILL ST | | ARVIN | CA | 93203-1419 |
| JUANA ACEVEDO | 2578 ELLIOT CT | | SANTA CLARA | CA | 95051-1849 |
| JUANA ARAIZA | 6600 HOLIDAY AVE | | ROSAMOND | CA | 93560-6569 |
| JUANA GUERRERO | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| JUANA ZUNO | 25186 PATTERSON RD | | LANCASTER | CA | 93536-9606 |
| JUANITA ALCALA | PO BOX 2872 | | LANCASTER | CA | 93539-2872 |
| JUANITA HADDOX | 12721 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3452 |
| JUANITA LEACH | 24232 JUNIPER AVE | | BORON | CA | 93516-1329 |
| JUANITA ORTA | 4491 SEPULVEDA BLVD | | CULVER CITY | CA | 90230-4848 |
| JUDAH DEVELOPMENT ENTERPRISES INC | 45405 FOXTON AVE | | LANCASTER | CA | 93535-1811 |
| JUDITH RUIZ | 2233 OAKRUN LN | | NEWHALL | CA | 91321 |
| JUDITH SIDES | 49540 55TH ST W | | LANCASTER | CA | 93536-9511 |
| JUDY PEEK | PO BOX 1552 | | ROSAMOND | CA | 93560-1552 |
| JULES MARCOGLIESE | 330 WARREN WAY | | ARCADIA | CA | 91007-8443 |
| JULIA HOSKINS | PO BOX 5142 | | LANCASTER | CA | 93539-5142 |
| JULIA KYLE | 12345 E AVENUE J | | LANCASTER | CA | 93535-8704 |
| JULIA VEN | 577 POHAKU ST | | KAHULUI | HI | 96732-1713 |
| JULIA WEBLEY | 1857 S CLOVERDALE AVE | | LOS ANGELES | CA | 90019-5217 |
| JULIE & VICTOR OLMOS | 3080 SEDONA ST | UNIT 148 | ROSAMOND | CA | 93560-7850 |
| JULIE ENGLISH | 24261 SAGE AVE | | BORON | CA | 93516-1333 |
| JULIE FRANCO | 2181 OAK ST | | ROSAMOND | CA | 93560-6073 |
| JULIE SOUDERS | 3505 E AVENUE H | | LANCASTER | CA | 93535-1620 |
| JULIE SUTTON | PO BOX 391 | | LANCASTER | CA | 93584-0391 |
| JULIE TSE | 654 GRANT AVE APT 18 | | SAN FRANCISCO | CA | 94108-2412 |
| JULIENNE MCCALMAN | 6633 W AVENUE H10 | | LANCASTER | CA | 93536-8414 |
| JULIETA HERNANDEZ | 8068 ANZA DR | | SAN DIEGO | CA | 92114-4703 |
| JULIO MARTINEZ | PO BOX 66 | | SAN FERNANDO | CA | 91341-0066 |
| JUN MONTARIL | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| JUNE HAYASHI | 2625 E 1ST ST | | LOS ANGELES | CA | 90033-3505 |
| JUNE RICHIE | PO BOX 953 | | NORTH FORK | CA | 93643-0953 |
| JUNE SOLOMON | 1400 COLUMBIA AVE | | ALAMOGORDO | NM | 88310-8016 |
| JUNG DUK Y | 51210 280TH ST W | | LANCASTER | CA | 93536-9236 |
| JUNG GEORGE T / JUNG KATHIE J | 47052 85TH ST W | | LANCASTER | CA | 93536-8626 |
| JUNG HEE W / JUNG CHUNG H | 32000 263RD ST E | | LLANO | CA | 93544-1582 |
| JUNG ROE | 408 S 289TH ST | | FEDERAL WAY | WA | 98003-3609 |
| JUNG SHIN | 4432 WOODLEIGH LN | | LA CANADA | CA | 91011-3541 |
| JUNIPER HILLS COMMUNITY ASSN | PO BOX 192 | | LITTLEROCK | CA | 93543-0192 |
| JUSTIN GORMAN | 40518 154TH ST E | | LANCASTER | CA | 93535 |
| JUSTTINI ALIAGA | 820 N LOUISE ST | | GLENDALE | CA | 91206 |
| K HOVNANIAN FORECAST HOMES INC | 3536 CONCOURS STE 100 | | ONTARIO | CA | 91764-5586 |
| KAHLE STEVEN C / CURRY MARCY A | 4362 E AVENUE F | | LANCASTER | CA | 93535-7711 |
| KAI DRENGLER | 12060 W AVENUE K | | LANCASTER | CA | 93536-9009 |
| KAISCHA HILL | 25824 CHERRYHILL DR | | BORON | CA | 93516-1203 |
| KALTZ FRANCIS / KALTZ GERRYE | 9833 E AVENUE D4 | | LANCASTER | CA | 93535-7943 |
| KARAN HALL | PO BOX 304 | | LAKE HUGHES | CA | 93532-0304 |
| KAREN BETSON | 5093 61ST ST W | | ROSAMOND | CA | 93560-6463 |
| KAREN BLIGHT | 2076 65TH ST W | | ROSAMOND | CA | 93560-6535 |
| KAREN HAMILTON | 24223 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| KAREN HART | 29824 HOLIDAY AVE | | LANCASTER | CA | 93536-9603 |
| KAREN MANDELL | 13903 SYLVAN ST | | VAN NUYS | CA | 91401-2219 |
| KAREN MC DONALD | PO BOX 34 | | MOJAVE | CA | 93502-0034 |
| KAREN RICHARDSON | 5341 MECCA AVE | | TARZANA | CA | 91356-4121 |
| KAREN WILLIAMS | 19507 ERMINE ST | | CANYON CNTRY | CA | 91351-1130 |
| KAREN WONNELL | 21115 E AVENUE R6 | | PALMDALE | CA | 93591-4603 |
| KARI FOSTER | 7865 NOEL ST | | ROSAMOND | CA | 93560-7026 |
| KARI PULAKKA | PO BOX 1660 | | ROSAMOND | CA | 93560-1660 |
| KARIN WELLS | PO BOX 189 | | PEARBLOSSOM | CA | 93553-0189 |
| KASDIN MITCHELL | 2117 COLBY AVE | | LOS ANGELES | CA | 90025-6207 |
| KATHERINE DOUGLASS | PO BOX 1744 | | ROSAMOND | CA | 93560-1744 |
| KATHERINE WELLING | PO BOX 89 | | BORON | CA | 93596-0089 |
| KATHLEEN BEVAN | 2146 W AVENUE K 14 | | LANCASTER | CA | 93536 |
| KATHLEEN CRISMORE | 256 E AVENUE R4 | | PALMDALE | CA | 93550-5273 |
| KATHLEEN EHLERT | 3 OLYMPIA | | IRVINE | CA | 92604-1929 |

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| KATHLEEN PETERSEN | PO BOX 1074 | | ROSAMOND | CA | 93560-1074 |
| KATHLEEN PRUITT | 1701 JUDY AVE | | BAKERSFIELD | CA | 93312 |
| KATHLEEN SPOOR | PO BOX 2240 | | ROSAMOND | CA | 93560-2240 |
| KATHLEEN URIBE | 2306 W AVENUE K10 | | LANCASTER | CA | 93536-1122 |
| KATHLEEN WATSON | 2640 60TH ST W | | ROSAMOND | CA | 93560-6988 |
| KATHLEEN WILLIAMS | 2918 65TH ST W | | ROSAMOND | CA | 93560 |
| KATHLENE ZIPP | 3144 QUAD LN APT A | | CAMERON PARK | CA | 95682-7829 |
| KATHLYN TONTS | 1052 S MOUNTAIN AVE | | ONTARIO | CA | 91762-4854 |
| KATHREEN LACROIX | PO BOX 500130 | | LAKE LOS ANGELES | CA | 93550-0130 |
| KATHRYN BAUER | 38713 TIERRA SUBIDA AVE STE 200 | | PALMDALE | CA | 93551-4562 |
| KATHRYN HAINLINE | 28143 N 123RD LN | | PEORIA | AZ | 85383-2532 |
| KATHRYN PEREZ | 5361 62ND ST W | | ROSAMOND | CA | 93560-6503 |
| KATHRYN PEREZ | 5361 62ND ST W | | ROSAMOND | CA | 93560-6503 |
| KATHRYN ROTTMAN | 42508 28TH ST W | | LANCASTER | CA | 93536-4000 |
| KATHRYN TYLER | 1288 90TH ST W | | ROSAMOND | CA | 93560 |
| KATHY HOUGHTON | 5822 SUE AVE | | ROSAMOND | CA | 93560-6969 |
| KATHY JOHNSTON | PO BOX 1345 | | LITTLEROCK | CA | 93543-5345 |
| KATHY LOWE | 2075 65TH ST W | | ROSAMOND | CA | 93560-6535 |
| KATHY MC AFEE | 46047 100TH ST E | | LANCASTER | CA | 93535-8422 |
| KATHY MCAFEE | 46047 100TH ST E | | LANCASTER | CA | 93535-8422 |
| KATHY NELSON | 4050 MANLY RD | | ROSAMOND | CA | 93560-6930 |
| KATOR KAMELA | 2217 E AVENUE I | | LANCASTER | CA | 93535-2313 |
| KAY SIKRA | PO BOX 6184 | | THOUSAND OAKS | CA | 91359-6184 |
| KB HOME GREATER LOS ANGELES INC | 27240 TURNBERRY LN STE 100 | | VALENCIA | CA | 91355-1043 |
| KBONE INC | 6802 PARAGON PL | | RICHMOND | VA | 23230-1644 |
| KEITH LEONARD | PO BOX 2585 | | ROSAMOND | CA | 93560-2585 |
| KEITH MARKS | PO BOX 1085 | | PEARBLOSSOM | CA | 93553-1085 |
| KELECHI AJOKU | 14523 SW MILLIKAN WAY | | BEAVERTON | OR | 97005-2344 |
| KELLY BILL F / KELLY DARLYNE M | 7321 W AVENUE G | | LANCASTER | CA | 93536-8618 |
| KELLY MACKEN | PO BOX 875 | | NORTH EDWARDS | CA | 93523-0875 |
| KELLY SCOBIE | 40056 CASTANA LN | | PALMDALE | CA | 93551 |
| KELLY STERLING | 5788 CHARAN RD | | ROSAMOND | CA | 93560-7116 |
| KELLY TOUCHSTONE | 3105 85TH ST W | | ROSAMOND | CA | 93560-6961 |
| KEMP ROBERT M | 2028 W AVENUE K10 | | LANCASTER | CA | 93536-4607 |
| KENNARD JOHN M / ANDERSON GLENDA | 40801 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| KENNETH ANDRADE | 47522 80TH ST W | | LANCASTER | CA | 93536-8637 |
| KENNETH BRYANT | 1103 E GLADWICK ST | | CARSON | CA | 90746-3824 |
| KENNETH CUNNINGHAM | PO BOX 2774 | | LANCASTER | CA | 93539-2774 |
| KENNETH FRANCIS | 28542 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553 |
| KENNETH GABBANI | 2163 HARRIS AVE | | ROSAMOND | CA | 93560-6520 |
| KENNETH HAGOOD | 24129 CHAPARRAL AVE | | BORON | CA | 93516-1303 |
| KENNETH HATCHER | 308 E AVENUE J12 | | LANCASTER | CA | 93535-4054 |
| KENNETH HUIE | 701 N STORY PL | | ALHAMBRA | CA | 91801-1555 |
| KENNETH KILBOURNE | 28701 DEVILS PUNCH BOWL RD | | PEARBLOSSOM | CA | 93553-3431 |
| KENNETH KRUG | 824 LEWISTON DR | | SAN JOSE | CA | 95136-1516 |
| KENNETH MARSHALL | 6475 105TH ST W | | ROSAMOND | CA | 93560-6937 |
| KENNETH MURPHY | PO BOX 334 | | ROSAMOND | CA | 93560-0334 |
| KENNETH WILLIS | 19436 GASKELL RD | | ROSAMOND | CA | 93560-7289 |
| KENT BUSS | 2839 EL CAMINITO | | LA CRESCENTA | CA | 91214-2004 |
| KENT HALCROMB | 24124 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| KERR DAVID W / KERR GINA M | 18750 W AVENUE E8 | | LANCASTER | CA | 93536-9064 |
| KERRY HAMILTON | 24223 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| KEVIN CASH | 2119 CAMINO LARGO DR | | CHINO HILLS | CA | 91709-1040 |
| KEVIN DAUGHERTY | PO BOX 2138 | | ROSAMOND | CA | 93560-2138 |
| KEVIN KLUTCHKO | 6705 VALMONT ST | | TUJUNGA | CA | 91042-2500 |
| KEVIN NGUYEN | 12314 MAILY MEADOWLANE | | SUGAR LAND | TX | 77478-6170 |
| KEVIN SNOW | 340 VILLAGE CREEK RD | | APTOS | CA | 95003-3939 |
| KEVIN TYLER | 1288 90TH ST W | | ROSAMOND | CA | 93560 |
| KEVIN WILLIAMS | 45863 100TH ST E | | LANCASTER | CA | 93535-8416 |
| KIEULAN NGUYEN | 10505 MIDWAY ST | | BELLFLOWER | CA | 90706-5070 |
| KIM EVANS | 12400 SIERRA VIEW ST | | BORON | CA | 93516-1343 |
| KIM RIVAS | PO BOX 1740 | | TEMPLE CITY | CA | 91780-7740 |
| KIM SOWERSBY | 50404 60TH ST W | | LANCASTER | CA | 93536-9553 |
| KIM YOHAN | 11208 JUNIPER HILLS RD | | JUNIPER HILLS | CA | 93543-4219 |
| KIMBER KIEFER | 5332 61ST ST W | | ROSAMOND | CA | 93560-6533 |
| KIMBERLY HARTWIG | 1720 W AVENUE L4 | | LANCASTER | CA | 93534-6951 |
| KIMBERLY LOMBARD | PO BOX 929 | | ROSAMOND | CA | 93560-0929 |
| KIMBERLY NEITHER | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| KIMBERLY POMEROY | 29319 121ST ST E | | JUNIPER HILLS | CA | 93543-4204 |
| KIMBERLY RILEY | 6110 BRENTWOOD AVE | | LANCASTER | CA | 93536-1790 |
| KIMBERLY SANDHU | PO BOX 6556 | | LANCASTER | CA | 93539-6556 |
| KIMBLE MICHAEL R / KIMBLE BONNIE G | 18649 W AVENUE E8 | | LANCASTER | CA | 93536-9065 |
| KINDIG BEVERLY A / KINDIG EUGENE | 50632 70TH ST W | | LANCASTER | CA | 93536-9517 |
| KINDIG PAUL S / KINDIG SHARON R | 49742 70TH ST W | | LANCASTER | CA | 93536-9513 |
| KING JOAN | 2547 W AVENUE F2 | | LANCASTER | CA | 93536-9572 |
| KINU STEINHOFF | 2025 S 8TH ST | # A | ALHAMBRA | CA | 91803-4031 |
| KIRBY JAMES D ; ROBERTA J / KIRBY FAMILY | 20441 BIG PINES HWY | | VALYERMO | CA | 93563-1006 |
| KIRK JOHN V JR / KIRK KIMBERLY F | 12345 NEARWOOD RD | | PEARBLOSSOM | CA | 93553-3429 |
| KIRK WEBLEY | 9293 REGENTS RD UNIT C207 | | LA JOLLA | CA | 92037-9172 |
| KIRSTEN KELLER | 4127 W AVENUE N3 | | PALMDALE | CA | 93551-1820 |
| KIYIOUNG LEE | PO BOX 741156 | | LOS ANGELES | CA | 90004-9156 |
| KLOTZ VINCENT F | 39165 240TH ST E | | PALMDALE | CA | 93591-4700 |
| KNOTT ROBERT S / KNOTT KATHLEEN A | 17050 LANCASTER RD | | LANCASTER | CA | 93536-9018 |
| KNUDTSON KEVIN M | 11301 MANZANITA MESA RD | | LITTLEROCK | CA | 93543-4229 |
| KOBIE CONNER | 3748 VIRGINIA RD | | LOS ANGELES | CA | 90016-5822 |
| KOOTENAI PROPERTIES INC | 107 S HAZELWOOD DR | | COEUR D ALENE | ID | 83814-5813 |
| KOSALA APPUHAMILLAGE | 3038 CROWNE DRIVE | | PALMDALE | CA | 93551-1561 |

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| KOSTECKY STEVEN J | 8722 W AVENUE E | | LANCASTER | CA | 93536-8784 |
| KRAJCZYNSKI MICHAEL J JR | 48801 120TH ST E | | LANCASTER | CA | 93535-8010 |
| KRECHNYAK | PO BOX 926 | | ROSAMOND | CA | 93560-0926 |
| KRIS KEHL | 25129 THE OLD RD STE 300 | | STEVENSON RANCH | CA | 91381-2291 |
| KRISTI ANDERSON | 9742 VALJEAN AVE | | NORTH HILLS | CA | 91343-1936 |
| KRISTIE HOLADAY | 38250 200TH ST E | | PALMDALE | CA | 93591-4400 |
| KUCHA WOITTE | 28441 HIGHRIDGE RD STE 303 | | ROLLING HILLS ESTATES | CA | 90274-4872 |
| KUHNERT PETER J / KUHNERT DEBRA S | 39950 135TH ST E | | PALMDALE | CA | 93591-1600 |
| KUM KANG | 912 CRENSHAW BLVD | | LOS ANGELES | CA | 90019-1937 |
| KUN STEVE / KUN ELINOR | 3554 PEARBLOSSOM HWY | | PALMDALE | CA | 93550-9290 |
| KUNGL KATHARINA / KUNGL TRUST | 9635 E AVENUE H | | LANCASTER | CA | 93535-8414 |
| KURT BALDWIN | 20528 E AVENUE Q12 | | PALMDALE | CA | 93591-4503 |
| KWAN MINH | 3852 RABBIT MOUNTAIN RD | | BROOMFIELD | CO | 80020-5555 |
| KYLE GAILEN W ; JULIA / KYLE TRUST | 12345 E AVENUE J | | LANCASTER | CA | 93535-8704 |
| KYLE JAMES W; WANDA E | KYLE JAMES; WANDA /TR | 12345 E AVENUE J | LANCASTER | CA | 93535-8704 |
| KYM HICKMAN | PO BOX 900518 | | PALMDALE | CA | 93590-0518 |
| KYO LEEM | 1717 CRENSHAW BLVD | | LOS ANGELES | CA | 90019-6037 |
| KYUNG HOON JUN | 20150 STAGG ST | | CANOGA PARK | CA | 91306-2513 |
| L ARMFIELD | PO BOX 1938 | | ROSAMOND | CA | 93560-1938 |
| LA ROCCA | PO BOX 1172 | | ROSAMOND | CA | 93560-1172 |
| LAHOMA DICKSON | PO BOX 167 | | LANCASTER | CA | 93584-0167 |
| LAINEZ MAURICIO / LAINEZ MARIA G | 29902 TENTERDON ST | | LITTLEROCK | CA | 93543-3611 |
| LAKISHA NELSON | 603 N DARFIELD AVE | | COVINA | CA | 91724-2805 |
| LAMAR WILBORN | 372 GREENMEADOW AVE | | THOUSAND OAKS | CA | 91320-4149 |
| LAMB | 9250 NW MOUNTAIN VIEW ACRES RD | | PRINEVILLE | OR | 97754-9267 |
| LAMB FMLY TR | 9250 NW MOUNTAIN VIEW ACRES RD | | PRINEVILLE | OR | 97754-9267 |
| LAMBERT RUSSELL R SR / LAMBERT MARTHA C | PO BOX 3218 | | GLENDALE | CA | 91221-0218 |
| LAMOUREAUX DARRELL L / LAMOULREAUX TRUST | 4509 CINNABAR AVE | | PALMDALE | CA | 93551-1855 |
| LANCASTER 160 INVESTMENTS LLC | 1054 S DE ANZA BLVD STE 202 | | SAN JOSE | CA | 95129-3553 |
| LANCASTER DUMP CORP | PO BOX 1450 | | CHICAGO | IL | 60690-1450 |
| LANCASTER KOREAN BAPTIST CHURCH | 4525 W LANCASTER BLVD | | LANCASTER | CA | 93536-7602 |
| LANCASTER PALMS LLC | 7116 VALJEAN AVE | | VAN NUYS | CA | 91406-3901 |
| LANCASTER WATER CO | PO BOX 25 | | LANCASTER | CA | 93584-0025 |
| LANCE BALDWIN | 8263 MOJAVE AVE | | ROSAMOND | CA | 93560-7367 |
| LANCE NIELSEN | PO BOX 25 | | LLANO | CA | 93544-0025 |
| LANDBANK DEVELOPMENT COMPANY LLC | 325 HARBOUR COVE DR STE 211 | | SPARKS | NV | 89434-7859 |
| LANE JUANITA A | 29346 125TH ST E | | PEARBLOSSOM | CA | 93553 |
| LARA JOSE / LARA MARICELA | 37301 THE GRVS | | PALMDALE | CA | 93551-6236 |
| LARRY BERTRAM | 12993 SANTA PAULA OJAI RD | | SANTA PAULA | CA | 93060-9624 |
| LARRY CONNELLY | 7193 PEARBLOSSOM HWY | | LITTLEROCK | CA | 93543-3035 |
| LARRY HALTOM | 2640 HOLLISTER TER | | GLENDALE | CA | 91206-3119 |
| LARRY LOEHR | 5457 60TH ST W | | ROSAMOND | CA | 93560-6584 |
| LARRY MATTOX | 11728 N 153RD AVE | | SURPRISE | AZ | 85379-7271 |
| LARRY MEGUIAR | 24300 CHAPARRAL AVE | | BORON | CA | 93516-1308 |
| LARRY RICHARDSON | 2178 RALEIGH AVE | | COSTA MESA | CA | 92627-2941 |
| LARRY ROTTMAN | 42508 28TH ST W | | LANCASTER | CA | 93536-4000 |
| LARRY SALTER | 2240 W AVENUE N | | PALMDALE | CA | 93551-2338 |
| LARRY SMITH | PO BOX 344 | | ROSAMOND | CA | 93560-0344 |
| LARRY WILBURN | 4875 SWEETSER RD | | ROSAMOND | CA | 93560-6455 |
| LASALLE | 14523 SW MILLIKAN WAY STE 200 | | BEAVERTON | OR | 97005-2352 |
| LASALLE BANK TR | 14523 SW MILLIKAN WAY STE 200 | | BEAVERTON | OR | 97005-2352 |
| LASSEN ASSOCIATES AND | 13659 VICTORY BLVD # 1045 | | VAN NUYS | CA | 91401-1735 |
| LATHAN COLLINS | 42305 DANIEL DR | | LANCASTER | CA | 93536-1231 |
| LAU AND LIM ASSOC AND | 144 AMHERST ST | | SAN FRANCISCO | CA | 94134-1304 |
| LAURA ANDREWS | PO BOX 6224 | | LANCASTER | CA | 93539-6224 |
| LAURA GRIFFIN | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| LAURA GRIFFIN | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| LAURA GUEVARA | PO BOX 399 | | ROSAMOND | CA | 93560-0399 |
| LAURA SCHILLING | 1235 MIRANDA CT | | TEHACHAPI | CA | 93561-2364 |
| LAURA SMITH | 42325 HIGHLAND CT | | LANCASTER | CA | 93536-7392 |
| LAURA TRAVIS | 5284 64TH ST W | | ROSAMOND | CA | 93560-6261 |
| LAUREN ANDERSON | 11819 KLING ST | | VALLEY VILLAGE | CA | 91607-4009 |
| LAURENCE BRUNET | 1384 NAPLES CT | | SIMI VALLEY | CA | 93065-4137 |
| LAURENCE LEVIN | PO BOX 588 | | LITTLEROCK | CA | 93543-0588 |
| LAURI LYTLE | 368 55TH ST W | | ROSAMOND | CA | 93560-6542 |
| LAURIE CONROY | 29669 LANCASTER RD | | LANCASTER | CA | 93536-9016 |
| LAVERNE HICKS | 3454 SATIN COURT | | PALMDALE | CA | 93551-3507 |
| LAVONNE PRYOR | 5120 SAINT LAURENT PL | | PALMDALE | CA | 93552-3200 |
| LAWRENCE EVANS | PO BOX 560 | | PEARBLOSSOM | CA | 93553-0560 |
| LAWRENCE HUMPHREY | 17650 DEVONSHIRE ST | | NORTHRIDGE | CA | 91325-1445 |
| LAWRENCE MICHAEL / LAWRENCE LINDA | 7155 W AVENUE J | | LANCASTER | CA | 93536-7612 |
| LAWRENCE SHERMAN | 2010 W AVENUE K STE 825 | | LANCASTER | CA | 93536-5229 |
| LAWRENCE WOLF | 18746 W AVENUE E4 | | LANCASTER | CA | 93536-9050 |
| LAWRENCE ZIEHLER | 11936 WICKS ST | | SUN VALLEY | CA | 91352-1907 |
| LAYLA KHALAF | 18566 DERBY CIR | | HUNTINGTON BEACH | CA | 92648-1565 |
| LAYTHON TOMINAGA | 6368 N WILLARD AVE | | SAN GABRIEL | CA | 91775-1833 |
| LAZARES ELLEN J | 12605 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3453 |
| LAZARO ESCOBAR | 3300 83RD ST W | | ROSAMOND | CA | 93560 |
| LE FREEMAN | 11716 LONE OAK DR | | BAKERSFIELD | CA | 93312-3408 |
| LEAANN ADAMS | 1405 90TH ST W | | ROSAMOND | CA | 93560-7175 |
| LEANO PEDRO F; AURELIA Q | PABRO LEONARDO; MADELINE L | 8018 E AVENUE J | LANCASTER | CA | 93535-8437 |
| LEE BOK S | 1648 W 12TH PL | | LOS ANGELES | CA | 90015-1906 |
| LEE CHAHYUN | 1030 E AVENUE S SPC 97 | | PALMDALE | CA | 93550-6835 |
| LEE CHANEY | 1832 FLOWER ST | | BAKERSFIELD | CA | 93305-4144 |
| LEE HALL | 5318 W AVENUE L6 | | QUARTZ HILL | CA | 93536-4444 |
| LEE HORMOZIAN | 10623 ATLANTA AVE | | NORTHRIDGE | CA | 91326-2901 |
| LEE JIMMY | PO BOX 943 | | ROSAMOND | CA | 93560-0943 |

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| LEE JONGSUN | 1640 W 12TH PL | | LOS ANGELES | CA | 90015-1906 |
| LEEANNE YOST | 3608 GOLD STONE LN | | ROSAMOND | CA | 93560-6808 |
| LEGAN LESTER L JR / LEGAN NITA S | 10842 SILVERWIND AVE | | LANCASTER | CA | 93536-7703 |
| LEIGHANN PACHECO | 5731 WILLOW AVE | | ROSAMOND | CA | 93560-6951 |
| LEINART MARGIE C | 7505 W AVENUE G | | LANCASTER | CA | 93536-8619 |
| LELAND FRANCO | 4337 W AVENUE L8 | | LANCASTER | CA | 93536-3416 |
| LENA MAKSHANOFF | PO BOX 2233 | | ROSAMOND | CA | 93560-2233 |
| LENSING VALERIE A | 30601 104TH ST E | | LITTLEROCK | CA | 93543-3618 |
| LEON DOURBAYAN | 69520 CRESTVIEW DR | | DSRT HOT SPGS | CA | 92241-8724 |
| LEON HONG | 1112 FAIRVIEW DR | | LA CANADA | CA | 91011-2359 |
| LEON HOOK | 35020 SMALL RD | | PALMDALE | CA | 93550-9736 |
| LEON MURACHANIAN | 9035 CASPER RD | | ROSAMOND | CA | 93560-6941 |
| LEON TAYLOR | 5132 BRYNHURST AVE | | LOS ANGELES | CA | 90043-1804 |
| LEON WANDA R | 5501 E AVENUE D8 | | LANCASTER | CA | 93535-7857 |
| LEONA MASTAN | 691 S WILD ROSE LN | | ATOKA | OK | 74525-4520 |
| LEONARD DIMASI | PO BOX 772 | | BURBANK | CA | 91503-0772 |
| LEONARD GRIFFIN | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| LEONARD GRIFFIN | 48009 70TH ST E | | LANCASTER | CA | 93535-7840 |
| LEONARD RODRIGUEZ | PO BOX 62900 | | LOS ANGELES | CA | 90062-0900 |
| LEONARD WAGNER | 5840 SUN RIVER CIR | | LAS VEGAS | NV | 89142-1271 |
| LEONARD WILLIAM | 323 W/J-10 | | LANCASTER | CA | 93534 |
| LEONARDO MANLOSA | 10400 RUFFNER AVE | | GRANADA HILLS | CA | 91344-6546 |
| LEONARDO VASQUEZ | 47620 5TH ST E | | LANCASTER | CA | 93535-7600 |
| LEONCIO ESCALANTE | 212 E AVENUE K6 STE 330 | | LANCASTER | CA | 93535-4565 |
| LEONIDAS NOGUERA | 4837 WATT AVE | | NORTH HIGHLANDS | CA | 95660-5108 |
| LEONORA CARRASCO | 5836 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560-6917 |
| LEOPARD EDWARD; LANORA L | LEOPARD TRUST | 46963 DIVISION ST | LANCASTER | CA | 93535-6410 |
| LESLIE A AMENT TR | PO BOX 799 | | LEONA VALLEY | CA | 93551-0799 |
| LESLIE CHOU | 1497 HONEY CREEK CT | | THOUSAND OAKS | CA | 91320-6577 |
| LESLIE HARDY | 1000 TECHNOLOGY DR MS 314 | | O FALLON | MO | 63368-2239 |
| LESLIE JONES | 9801 CIMA MESA RD | | LITTLEROCK | CA | 93543-3634 |
| LESLIE MEYER | 47721 222ND ST W | | LANCASTER | CA | 93536-9116 |
| LESLIE WEST | 23008 LANCASTER RD | | LANCASTER | CA | 93536-9023 |
| LESLIE WILLIFORD | PO BOX 19 | | ROSAMOND | CA | 93560-0019 |
| LESTER HARRY ; ELIZABETH / LESTER FAMILY | 40816 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| LESTER MICHAEL E | 7245 ANTELOPE HWY | | LANCASTER | CA | 93536 |
| LESTER MILLER | 160 W AVENUE L9 | | LANCASTER | CA | 93534-7125 |
| LETICIA DOMINGUEZ | 1321 LOTTA DR | | LOS ANGELES | CA | 90063-3204 |
| LETICIA MARTINEZ | 6055 HOLIDAY AVE STE B | | ROSAMOND | CA | 93560-7129 |
| LETICIA PRECIADO | 400 COUNTRYWIDE WAY | | SIMI VALLEY | CA | 93065-6298 |
| LETTY TYCANGCO | 609 BALBOA ST | | WEST COVINA | CA | 91791-2653 |
| LEWIS TROMLEY | 45016 KINGTREE AVE | | LANCASTER | CA | 93534-2240 |
| LEWIS YOUNG | 2337 W AVENUE I | | LANCASTER | CA | 93536-7208 |
| LIDIA FRANCO | PO BOX 363 | | ROSAMOND | CA | 93560-0363 |
| LIDIA VILLALOBOS | 3110 E GUASTI RD | | ONTARIO | CA | 91761-1219 |
| LIDO ESTATES MHC LLC | 1105 HILLSDALE AVE # 100 | | SAN JOSE | CA | 95118 |
| LIDUVINA RAMIREZ | 30900 106TH ST E | | LITTLEROCK | CA | 93543-3661 |
| LIEH HSU | 23823 VALLEY OAK CT | | NEWHALL | CA | 91321-3747 |
| LIEHSHAU HSU | 23823 VALLEY OAK CT | | NEWHALL | CA | 91321-3747 |
| LIEN HO | 13529 VALLE VISTA AVE | | BALDWIN PARK | CA | 91706-2849 |
| LIESA JONES | PO BOX 62 | | ROSAMOND | CA | 93560-0062 |
| LILA BURNS | 3631 W AVENUE B | | ROSAMOND | CA | 93560-7102 |
| LILIA LORD | 6423 W ROSAMOND BLVD | | ROSAMOND | CA | 93560 |
| LILIA QUIMOSING | 2132 W JUNO AVE APT C | | ANAHEIM | CA | 92804-4448 |
| LILIA SELAK | 1975 PLACID DR APT 6 | | VAIL | CO | 81657-4373 |
| LILLIAN MAIMONE | 1390 E PALM ST | | ALTADENA | CA | 91001-2042 |
| LILLIE BLUFF | 12183 EL MIRAGE ST | | BORON | CA | 93516-1312 |
| LILLIE SHEPARD | 31791 VIA PATO | | COTO DE CAZA | CA | 92679-4128 |
| LILLYANN WYER | PO BOX 1296 | | ROSAMOND | CA | 93560-1296 |
| LILYBELL CABRAL | 2780 LAKE VISTA DR | | LEWISVILLE | TX | 75067-3884 |
| LIMESAND RAYMOND & CHARLOTTE FAM TR | 15347 SAN MIGUEL WAY | | VICTORVILLE | CA | 92394-0827 |
| LINCOLN GRANT | 121 WOODCREST RD | | CHERRY HILL | NJ | 08003-3620 |
| LINDA ADAMS | PO BOX 397 | | PEARBLOSSOM | CA | 93553-0397 |
| LINDA BRANNAN | PO BOX 1852 | | ROSAMOND | CA | 93560-1852 |
| LINDA CHO | 11450 WISTFUL VISTA WAY | | NORTHRIDGE | CA | 91326-4183 |
| LINDA CUMMINGS | HCR 3 BOX 226 | | ROSAMOND | CA | 93560 |
| LINDA DENNIS | 5962 MARGARITHA LN | | ROSAMOND | CA | 93560-6916 |
| LINDA HARMON | 5771 CHARAN RD | | ROSAMOND | CA | 93560-7126 |
| LINDA HAWLEY | 4360 E MAIN ST UNIT 154 | | VENTURA | CA | 93003-8279 |
| LINDA HODGE | 44131 80TH ST W | | LANCASTER | CA | 93536-7509 |
| LINDA HUTCHINS | 5401 W AVENUE A | | ROSAMOND | CA | 93560-6985 |
| LINDA JANSSEN | PO BOX 2478 | | ROSAMOND | CA | 93560-2478 |
| LINDA MASTIN | 2660 PEARBLOSSOM HWY | | PALMDALE | CA | 93550-9519 |
| LINDA MATHEWS | 5394 61ST ST W | | ROSAMOND | CA | 93560-6533 |
| LINDA RICHEY | 24358 TAMARISK AVE | | BORON | CA | 93516-1350 |
| LINDA ROSQUIN | 6464 FAVORITO AVE | | ROSAMOND | CA | 93560-6253 |
| LINDA RUBY | 685 LAUREL ST | | ROSAMOND | CA | 93560-6981 |
| LINDA SKIPWORTH | PO BOX 552 | | BORON | CA | 93596-0552 |
| LINDA SNOW | 340 VILLAGE CREEK RD | | APTOS | CA | 95003-3939 |
| LINDA STORSTEEN | PO BOX 500131 | | PALMDALE | CA | 93550-0131 |
| LINNE LANE | 905 MISSION CREEK DR | | PALM DESERT | CA | 92211-5910 |
| LINO QUINTERO | PO BOX 2200 | | ROSAMOND | CA | 93560-2200 |
| LISA BISHOP | 6318 105TH ST W | | ROSAMOND | CA | 93560-6933 |
| LISA GEAR | PO BOX 1615 | | ROSAMOND | CA | 93560-1615 |
| LISA LAMOUREAUX | 24276 TAMARISK AVE | | BORON | CA | 93516-1348 |
| LISA LEONARD | PO BOX 2585 | | ROSAMOND | CA | 93560-2585 |
| LISA MATTOX | 11728 N 153RD AVE | | SURPRISE | AZ | 85379-7271 |

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|---|---|---|---|---|---|
| LISA PALLOW | PO BOX 395 | | LLANO | CA | 93544-0395 |
| LISA PETREY | 12221 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| LISA SARASPI | 6 SHANNON CIR | | ALAMEDA | CA | 94502-7729 |
| LISA WILLIAMS | 41813 PICO WAY | | PALMDALE | CA | 93551-4721 |
| LISA YORK | 18611 BRYMER ST | | NORTHRIDGE | CA | 91326-1925 |
| LISET CORONA | 10239 MCNERNEY AVE | | SOUTH GATE | CA | 90280-6707 |
| LITTON LN SVCNG | 4828 LOOP CENTRAL DR | | HOUSTON | TX | 77081-2212 |
| LIU YUTANG | 1002 S ATLANTIC BLVD APT 4 | | ALHAMBRA | CA | 91803-2256 |
| LIV LOOMIS TR | PO BOX 429 | | ROSAMOND | CA | 93560-0429 |
| LIVING TR | ATTN: JERALD THOMAS | PO BOX 1031 | ROSAMOND | CA | 93560-1031 |
| LIVRADO VALENCIA | 41129 18TH ST W | | PALMDALE | CA | 93551-2232 |
| LIZA HANTSKE | 7683 CIRCULO SEQUOIA | | CARLSBAD | CA | 92009-8472 |
| LLARENA JOSEPH T | 9310 W AVENUE H | | LANCASTER | CA | 93536-8007 |
| LLARENA RICHARD A | 45944 97TH ST W | | LANCASTER | CA | 93536-8014 |
| LLOYD BURGESS | 12300 SIERRA VIEW ST | | BORON | CA | 93516-1342 |
| LLOYD TEEL | PO BOX 366 | | LITTLEROCK | CA | 93543-0366 |
| LOANA BOYD | 1401 60TH ST W | | ROSAMOND | CA | 93560-6523 |
| LOBOS JEREMIAH | 1015 N BUENA VISTA ST | | BURBANK | CA | 91505-2320 |
| LOCKHEED CORP | PO BOX 748 | | FORT WORTH | TX | 76101-7450 |
| LODS CLIFFORD / LODS BARBARA J | 43036 FLAG ST | | LANCASTER | CA | 93536-4651 |
| LOIS BEECHLY | PO BOX 155 | | ROSAMOND | CA | 93560-0155 |
| LOIS EBERHARDT | 2204 AGNES ST | | EAU CLAIRE | WI | 54701-4705 |
| LOIS ENDSLEY | PO BOX 720006 | | PINON HILLS | CA | 92372-0006 |
| LOIS M STEVENS LIVING TRUST | PO BOX 781 | | ROSAMOND | CA | 93560-0781 |
| LOIS PLETCHER | 18100 CASTLE BUTTE RD | | EDWARDS | CA | 93523-3200 |
| LOKOS REVOCABLE LIVING TRUST | 5775 WILLOW AVE | | ROSAMOND | CA | 93560-6951 |
| LOMAAK JAY | 364 COMSTOCK DR | | VENTURA | CA | 93001-1536 |
| LONG VALLEY ROAD LP | 23475 LONG VALLEY RD | | WOODLAND HILLS | CA | 91367-6006 |
| LONGSHYONG LEE | 420 N DAISY AVE | | PASADENA | CA | 91107-2809 |
| LONNIE SEBELLITA | PO BOX 247 | | ROSAMOND | CA | 93560-0247 |
| LOPEZ MARTHA | 48560 77TH ST W | | LANCASTER | CA | 93536-9300 |
| LOPEZ SANTOS / LOPEZ CONSUELO | 46716 120TH ST E | | LANCASTER | CA | 93535-8731 |
| LOPEZ STEVEN / LOPEZ VICKI L | 44300 MUNZ RANCH RD | | LAKE HUGHES | CA | 93532-1204 |
| LORENA CARTER | PO BOX 2421 | | ROSAMOND | CA | 93560-2421 |
| LORENA CASTILLO | 17107 MOSSDALE AVE | | LANCASTER | CA | 93535-7427 |
| LORENZ MERGILI | PO BOX 2531 | | ROSAMOND | CA | 93560-2531 |
| LORI MC LAIN | PO BOX 1909 | | ROSAMOND | CA | 93560-1909 |
| LORRAINE SCHWARZ | 5395 60TH ST W | | ROSAMOND | CA | 93560-6265 |
| LORRAINE SHONE | PO BOX 265 | | LITTLEROCK | CA | 93543-0265 |
| LOS ANGELES INTL CHURCH OF | 3731 WILSHIRE BLVD STE 800 | | LOS ANGELES | CA | 90010-2850 |
| LOTUS COMMUNICATIONS CORP | 1645 VINE ST STE 200 | | LOS ANGELES | CA | 90028-8839 |
| LOUIS CHOSTNER | 2136 NIPOMO AVE | | LONG BEACH | CA | 90815-3523 |
| LOUIS ENGEL | 7334 E BLACK ROCK RD | | SCOTTSDALE | AZ | 85255-6108 |
| LOUISE LUJAN FAMILY TRUST | 8748 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-6972 |
| LOUISE MOE | PO BOX 87 | | PEARBLOSSOM | CA | 93553-0087 |
| LOVE BRUCE / LOVE STEPHANIE | 29709 104TH ST E | | JUNIPER HILLS | CA | 93543-3665 |
| LOWDER DONALD J | 7129 W AVENUE E | | LANCASTER | CA | 93536-8808 |
| LOWE GLEN E / ADAMS SHIRLEY J | PO BOX 4146 | | LANCASTER | CA | 93539-4146 |
| LOWELL MCMAHAN | 17146 MCKEEVER ST | | GRANADA HILLS | CA | 91344-4145 |
| LP EQUITY RESOURCES II INC | PO BOX 8159 | | CALABASAS | CA | 91372-8159 |
| LSF6 MERCURY TRUST SERIES 2008-1 | 715 METROPOLITAN AVE | | OKLAHOMA CITY | OK | 73108-2088 |
| LUBOS CRISPINO / LUBOS JULAIDA A | 48565 70TH ST W | | LANCASTER | CA | 93536-8801 |
| LUCERO MANUEL / THI NHAM LE | 5267 BOGGS ST | | ROSAMOND | CA | 93560 |
| LUCIENNE HASSLER | 2225 LINNINGTON AVE | | LOS ANGELES | CA | 90064-2339 |
| LUCILA DOLATRE | 1300 LANCE LN | | CAROL STREAM | IL | 60188-3332 |
| LUCILA RAMOS | 12567 YUBA RD | | PHELAN | CA | 92371-7836 |
| LUCIO FERNANDEZ | PO BOX 900126 | | PALMDALE | CA | 93590-0126 |
| LUCITA TIMPLE | 7635 W AVENUE G | | LANCASTER | CA | 93536-8620 |
| LUCRETIA JOHNSON | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| LUCY L TUNNEL TRUST | 26005 BEAR VALLEY RD | | TEHACHAPI | CA | 93561-9218 |
| LUIS CALDERON | 6456 HOLIDAY AVE | | ROSAMOND | CA | 93560-6522 |
| LUIS CARLOS | 3002 ALSACE AVE | | LOS ANGELES | CA | 90016-3802 |
| LUIS FUENTES | 355 S HIDDEN GROVE LN | | ANAHEIM | CA | 92807 |
| LUIS MUNOZ | 7241 LURLINE AVE | | WINNETKA | CA | 91306-2728 |
| LUIS REJON | 20964 DELPHINE DR | | WALNUT | CA | 91789-2554 |
| LUIS RODRIGUEZ | 9500 LAUREL CANYON BLVD | | ARLETA | CA | 91331-4213 |
| LUIS ROSALES | 217 ELM ST | | ALHAMBRA | CA | 91801-3008 |
| LUIS VARGAS | 9500 LAUREL CANYON BLVD | | ARLETA | CA | 91331-4213 |
| LUIZ GARCIA JR | PO BOX 924 | | ROSAMOND | CA | 93560-0924 |
| LUNDGREN JANET CORRINE | LUNDGREN JANET C | 51350 280TH ST W | LANCASTER | CA | 93536-9238 |
| LUS JIMENEZ | 2222 16TH ST | | SANTA MONICA | CA | 90405-1608 |
| LUZVIMINDA PADILLA | 3633 KIM CT | | LANCASTER | CA | 93536-6208 |
| LYDIA BAKER | 35130 WYSE RD | | AGUA DULCE | CA | 91390-4654 |
| LYDIA COZBY | PO BOX 1 | | VALYERMO | CA | 93563-0001 |
| LYDIA PEREZ | 4165 E AVENUE S12 | | PALMDALE | CA | 93552-5801 |
| LYDIA SANCHEZ | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| LYDIA THORNTON | PO BOX 155 | | BORON | CA | 93596-0155 |
| LYDIA VENTUROLI | PO BOX 633 | | PEARBLOSSOM | CA | 93553-0633 |
| LYMAN MOMENY | 638 GROTON DR | | BURBANK | CA | 91504-2419 |
| LYNCH NEOMI H | 13120 BRADLEY AVE | SPC 3 | SYLMAR | CA | 91342-0686 |
| LYNN MICHELLE | 24180 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| LYNNE URIBE | 4420 BRIGHTON CT | | HEMET | CA | 92544-1875 |
| LYONS JOHN S /LT / LYONS HELEN L | 36453 165TH ST E | | LLANO | CA | 93544-1133 |
| M MAGNUSSON | 25062 ATWOOD BLVD | | NEWHALL | CA | 91321-3402 |
| M MALLOCH | 5891 CASSON DR | | YORBA LINDA | CA | 92886-9020 |
| MACIOCE DANIEL L / MACIOCE YIFEI W | 28810 W AVENUE B | | LANCASTER | CA | 93536-9719 |
| MACKEY JOHN E / MACKEY KRISTINA | 45529 55TH ST W | | LANCASTER | CA | 93536-8314 |

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|---|---|---|---|---|---|
| MACLOVIO QUINTERO | 5642 GOBI AVE | | ROSAMOND | CA | 93560-6971 |
| MACNERNEY MARK E | 23330 FORT TEJON RD | | LLANO | CA | 93544-1562 |
| MADAULE STEVEN / MADAULE VICKI | 46324 70TH ST W | | LANCASTER | CA | 93536-8510 |
| MADDOCK DAVID T / MADDOCK GRACE A | 30420 LARGO VISTA RD | | LLANO | CA | 93544-1413 |
| MADDOX CHALLIS L | HANLON MICHAEL G; SANDRA L | 7811 W AVENUE H | LANCASTER | CA | 93536-8108 |
| MAGALY MOLINA | 62 PARC PLACE DR | | MILPITAS | CA | 95035-3848 |
| MAGGI HAVAS | PO BOX 801474 | | SANTA CLARITA | CA | 91380-1474 |
| MAHBOD JAVADI | PO BOX 10965 | | NEWPORT BEACH | CA | 92658-5014 |
| MAHMOUD RABANI | 1727 W 1ST ST | | SAN PEDRO | CA | 90732-3106 |
| MAIDA CUNNINGHAM | PO BOX 2774 | | LANCASTER | CA | 93539-2774 |
| MALCOLM EDE | PO BOX 364 | | LANCASTER | CA | 93584-0364 |
| MALCOLM KENNEDY | 41654 FIRENZE ST | | LANCASTER | CA | 93536-2953 |
| MALCOLM MC CAMPBELL | PO BOX 24 | | GORMAN | CA | 93243-0024 |
| MANDELL DANIEL J / MANDELL SANDRA L | 14706 E AVENUE Q | | PALMDALE | CA | 93591-2801 |
| MANN GREGG A / MANN SHEILA A | 7345 W JACKMAN ST | | LANCASTER | CA | 93536-7801 |
| MANOUCHEHR HORMOZI | 6323 MESSINA CT | | PALMDALE | CA | 93552-4737 |
| MANUEL GARCIA | 7601 W AVENUE A | | LANCASTER | CA | 93536-9623 |
| MANUEL GONZALEZ | 13745 HANWELL AVE | | BELLFLOWER | CA | 90706-2055 |
| MANUEL GONZALEZ | 19005 NEARBROOK ST | | CANYON CNTRY | CA | 91351-3306 |
| MANUEL GUILLEN | 29826 LANCASTER RD | | LANCASTER | CA | 93536-9029 |
| MANUEL HERNANDEZ | 554 W LANCASTER BLVD | | LANCASTER | CA | 93534-2534 |
| MANUEL PEREZ | 7408 AMIGO AVE | | RESEDA | CA | 91335-2810 |
| MANUEL RUIZ | 335 CAGEL ST | | ROSAMOND | CA | 93560-6955 |
| MANUEL SEGURA | 5800 HIDDEN TRAIL RD | | ROSAMOND | CA | 93560 |
| MANUELA DIAZ | PO BOX 2294 | | ROSAMOND | CA | 93560-2294 |
| MANUELA MARQUEZ | 6765 CHERRY AVE | | LONG BEACH | CA | 90805-1716 |
| MARC CALDERON | PO BOX 2156 | | ROSAMOND | CA | 93560-2156 |
| MARCIA KOLVENBACH | PO BOX 2366 | | ROSAMOND | CA | 93560-2366 |
| MARCO JOHNSON | 42444 28TH ST W | | LANCASTER | CA | 93536-4019 |
| MARCO MAIMONE | 1390 E PALM ST | | ALTADENA | CA | 91001-2042 |
| MAREE J DE LANO TR | PO BOX 476 | | ROSAMOND | CA | 93560-0476 |
| MAREK PRZYSTUPA | 3053 RANCHO VISTA BLVD # H205 | | PALMDALE | CA | 93551-4823 |
| MARGARET BEELER | 5204 W AVENUE L6 | | LANCASTER | CA | 93536-4442 |
| MARGARET DE LA ROSA | 9580 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7505 |
| MARGARET GREENBERG | PO BOX 1571 | | ROSAMOND | CA | 93560-1571 |
| MARGARET JEFFERSON | 29240 E 126TH ST | | PEARBLOSSOM | CA | 93553 |
| MARGARET LANTING | 18349 SUMMER AVE | | ARTESIA | CA | 90701-5526 |
| MARGARET LARSEN | PO BOX 2413 | | ROSAMOND | CA | 93560-2413 |
| MARGARET MEDINA | 18122 E AVENUE O | | PALMDALE | CA | 93591-3804 |
| MARGARET MOLLMAN | 682 N NORTH 300 EAST | | VALPARAISO | IN | 46383 |
| MARGARET MUSE | 2330 EL PESCADOR CT | | GOLD RIVER | CA | 95670-6223 |
| MARGARET WHYTE | 3612 BRAEWOOD DR | | LAS VEGAS | NV | 89121-3713 |
| MARGARITA CABRERA | 3476 STATEVIEW BLVD | | FORT MILL | SC | 29715-7203 |
| MARGARITA CASTANON | 2830 60TH ST W | | ROSAMOND | CA | 93560-6991 |
| MARGARITA ENRIQUEZ | 3543 BRABHAM AVE | | ROSAMOND | CA | 93560-6891 |
| MARGARITA GARCIA | 1209 W AVENUE H15 | | LANCASTER | CA | 93534-1750 |
| MARGARITA SOLORZANO | 42848 ALEP ST | | LANCASTER | CA | 93536-4857 |
| MARGE GROVEN | 43036 42ND ST W | | LANCASTER | CA | 93536-5007 |
| MARGERETT ROQUEMORE | PO BOX 796 | | BORON | CA | 93596-0796 |
| MARIA AGUIRRE | 6551 RHODES AVE | | N HOLLYWOOD | CA | 91606-2315 |
| MARIA ALATORRE | 42227 ROUND HILL DR | | LANCASTER | CA | 93536-7314 |
| MARIA ALBERTO | 4409 PARK AVE | | BALDWIN PARK | CA | 91706-2716 |
| MARIA AMBRIZ | 1477 BROWN LN | | FARMINGTON | UT | 84025-3002 |
| MARIA BLACK | PO BOX 6135 | | SANTA BARBARA | CA | 93160-6135 |
| MARIA CASTRO | 4824 W 120TH ST | | HAWTHORNE | CA | 90250-2725 |
| MARIA CONSTANTINO | 20636 VERCELLI WAY | | NORTHRIDGE | CA | 91326-4156 |
| MARIA CRUZ | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| MARIA GASPAR | 7245 SHOUP AVE | | WEST HILLS | CA | 91307-1735 |
| MARIA GOMEZ | 6925 DOGWOOD AVE | | ROSAMOND | CA | 93560-7215 |
| MARIA GONZALEZ | 19005 NEARBROOK ST | | CANYON CNTRY | CA | 91351-3306 |
| MARIA GRAHN | 900 UNIVERSITY AVE | | BURBANK | CA | 91504-3034 |
| MARIA HENRIQUEZ | 3815 S WEST TEMPLE | | SALT LAKE CITY | UT | 84115-4412 |
| MARIA HUANG | 6135 TYRNBURY DR | | LISLE | IL | 60532-3200 |
| MARIA LAUREYS | 8349 MOJAVE AVE | | ROSAMOND | CA | 93560-7188 |
| MARIA LOPEZ | 14702 LAKESIDE ST | | SYLMAR | CA | 91342-3961 |
| MARIA MELGOZA | 8963 CAYUGA AVE | | SUN VALLEY | CA | 91352-2412 |
| MARIA MIRANDA | 513 S BURRIS AVE | | COMPTON | CA | 90221-3942 |
| MARIA MORRIS | 24196 TAMARISK AVE | | BORON | CA | 93516-1346 |
| MARIA NICHOLS | PO BOX 257 | | ROSAMOND | CA | 93560-0257 |
| MARIA OLIVER | 1808 DEVEREAUX DR | | BURLINGAME | CA | 94010-4642 |
| MARIA PEREZ | 801 JOHN BARROW RD STE 1 | | LITTLE ROCK | AR | 72205-6599 |
| MARIA PUNAY | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| MARIA QUINTERO | PO BOX 2200 | | ROSAMOND | CA | 93560-2200 |
| MARIA REED | 1717 E AVENUE I | SPC 28 | LANCASTER | CA | 93535-2241 |
| MARIA SALCEDO | 1191 BROWNING BLVD | | LOS ANGELES | CA | 90037-1627 |
| MARIA SANCHEZ | 38952 2ND ST E | | PALMDALE | CA | 93550-3204 |
| MARIA SILVA | 1430 LONGHILL | | HACIENDA HEIGHTS | CA | 91745 |
| MARIA STA ANA | 1295 LA TREMOLINA LN | | CORONA | CA | 92879-8536 |
| MARIA SUAREZ | 16557 WHEELER RD | | HELENDALE | CA | 92342-9718 |
| MARIA TAMAYO | 2259 DWIGHT CT | | ROSAMOND | CA | 93560-5937 |
| MARIA TELLO | 828 ROSE AVE | | VENICE | CA | 90291-2832 |
| MARIA TINITIGAN | 3054 DELTA RD | | SAN JOSE | CA | 95135-1074 |
| MARIA TRUJILLO | 1530 SAN ANDRES ST | | SANTA BARBARA | CA | 93101-4104 |
| MARIA URENA | 14105 WEIDNER ST | | ARLETA | CA | 91331-4459 |
| MARIA VASQUEZ | 2603 VIA GENOVA | | LANCASTER | CA | 93535-2857 |
| MARIA VILLAMOR | 3836 REVERE AVE | | LOS ANGELES | CA | 90039-1635 |
| MARIA ZEPEDA | 2141 58TH ST W | | ROSAMOND | CA | 93560-6976 |

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|---|---|---|---|---|
| MARIAN DUNCAN | 13011 CIMARRON AVE | GARDENA | CA | 90249-1739 |
| MARIANNE MILBURN | PO BOX 810 | LITTLEROCK | CA | 93543-0810 |
| MARIBEL TRUJILLO | 419 E MAITLAND ST | ONTARIO | CA | 91761-3316 |
| MARICELA RAMOS | PO BOX 2687 | LANCASTER | CA | 93539-2687 |
| MARIE LOMBARDI | 3601 SAUSALITO DR | CORONA DEL MAR | CA | 92625-1642 |
| MARIE WILLIAMSON | 2764 60TH ST W | ROSAMOND | CA | 93560-7135 |
| MARIJA KNEZEVIC | 624 W 17TH ST | SAN PEDRO | CA | 90731-4717 |
| MARILYN ARGO | 10810 4 WINDS RD | JUNIPER HILLS | CA | 93543-3644 |
| MARILYN BIRDSALL | 1680 KATEE LN | PALMDALE | CA | 93550-9238 |
| MARILYN BURGESS | 14637 CASTLE BUTTE RD | NORTH EDWARDS | CA | 93523-3203 |
| MARILYN DRUMMOND | 39201 COPRICE ST | PALMDALE | CA | 93551-4479 |
| MARILYN MOMENY | 638 GROTON DR | BURBANK | CA | 91504-2419 |
| MARILYN SHERMAN | 2010 W AVENUE K STE 825 | LANCASTER | CA | 93536-5229 |
| MARINA ESCOBAR | 3157 E AVENUE I # E | LANCASTER | CA | 93535-2458 |
| MARINA HOLLENDER | 5334 LINDLEY AVE UNIT 317 | ENCINO | CA | 91316-2906 |
| MARINA SUAREZ | 5520 W DONGES BAY RD | MEQUON | WI | 53092-4423 |
| MARINO DI MATTIO | PO BOX 20 | LANCASTER | CA | 93584-0020 |
| MARIO BALLES | 42429 BUTTERSCOTCH LN | LANCASTER | CA | 93536-4446 |
| MARIO CRISTOBAL | 4142 DAHLIA ST | LANCASTER | CA | 93535 |
| MARIO DEL ROSARIO | 242 LILLEAN CT | VALLEJO | CA | 94589-1880 |
| MARIO GUTERREZ | 2113 60TH ST W | ROSAMOND | CA | 93560-6560 |
| MARIO MARTINEZ | 8742 LUCENT BLVD STE 300 | HIGHLANDS RANCH | CO | 80129-2386 |
| MARIO PEREZ | 6828 WUNDERLIN AVE | SAN DIEGO | CA | 92114-2944 |
| MARIO RAMIREZ | 44051 90TH ST E | LANCASTER | CA | 93535-8405 |
| MARION MOESSNER | 24262 SAGE AVE | BORON | CA | 93516-1334 |
| MARION MOSS | 1049 CINNAMON RANCH RD | BISHOP | CA | 93514-9481 |
| MARION PARKER | 3309 WALNUT AVE | MANHATTAN BCH | CA | 90266-3551 |
| MARISSA TONG | 3 NORMANDIE | ALISO VIEJO | CA | 92656-7064 |
| MARITORENA LIVING TRUST | 300 PANAMA RD | BAKERSFIELD | CA | 93307-6261 |
| MARIVIC LIM | 19140 MERION DR | NORTHRIDGE | CA | 91326-1835 |
| MARJORIE WEAVER | 478 HOWE AVE | SACRAMENTO | CA | 95825-5507 |
| MARK AUSTIN | 1612 SUSSEX CT | PALMDALE | CA | 93550-6998 |
| MARK DAVIS | 24374 SAGE AVE | BORON | CA | 93516-1336 |
| MARK DENSING | PO BOX 1512 | ROSAMOND | CA | 93560-1512 |
| MARK DUELL | 5350 HOLLISTER AVE STE F | SANTA BARBARA | CA | 93111-2326 |
| MARK EIFER | 14050 E AVENUE Q | PALMDALE | CA | 93591-2100 |
| MARK EPPS | PO BOX 2036 | ROSAMOND | CA | 93560-2036 |
| MARK GLANCEY | 10423 NE 145TH ST | KIRKLAND | WA | 98034-4333 |
| MARK GROH | 6204 EL DORADO AVE | ROSAMOND | CA | 93560-6599 |
| MARK GROH | 6204 EL DORADO AVE | ROSAMOND | CA | 93560-6599 |
| MARK JOHNSTON | PO BOX 1345 | LITTLEROCK | CA | 93543-5345 |
| MARK KING | 67515 OAKRIDGE LN | MONTROSE | CO | 81401-7472 |
| MARK LOPEZ | 24211 JOSHUA AVE | BORON | CA | 93516-1322 |
| MARK MONTGOMERY | PO BOX 27 | VALYERMO | CA | 93563-0027 |
| MARK SIROTA | 6650 BIRCHTON AVE | WEST HILLS | CA | 91307-3203 |
| MARK SMITH | PO BOX 5560 | GLENDALE | CA | 91221 |
| MARK STAHOVICH | 2638 57TH ST W | ROSAMOND | CA | 93560-7254 |
| MARK SUMPTER | 24225 JOSHUA AVE | BORON | CA | 93516-1322 |
| MARK THOMPSON | 46118 N 80TH WEST ST | LANCASTER | CA | 93536 |
| MARLIN MASON | 7845 ELDER AVE | ROSAMOND | CA | 93560 |
| MARLIN ZIEL | 28714 CRUTHERS CREEK RD | PEARBLOSSOM | CA | 93553-3426 |
| MARLINE PINA | PO BOX 272 | LLANO | CA | 93544-0272 |
| MARSHALL PARKER | 3309 WALNUT AVE | MANHATTAN BCH | CA | 90266-3551 |
| MARTA NOVOA | 5594 SUE AVE | ROSAMOND | CA | 93560-6986 |
| MARTA VAN DAM | 12715 BOBTAIL LN | ROSAMOND | CA | 93560-7059 |
| MARTHA CRAWFORD | 17232 HOLLY DR | FONTANA | CA | 92335-5831 |
| MARTHA DELGADO | 6432 ROADRUNNER AVE | ROSAMOND | CA | 93560-6585 |
| MARTHA KENYON | 12346 SIERRA VIEW ST | BORON | CA | 93516-1342 |
| MARTHA NERIA | 1501 SUMMIT CIR | FULLERTON | CA | 92833-1716 |
| MARTHA RODRIGUEZ | 35820 106TH ST E | LITTLEROCK | CA | 93543-2800 |
| MARTHA STEPHANI | PO BOX 5802 | LANCASTER | CA | 93539-5802 |
| MARTHA TSAKANIAS | 683 GILWOOD AVE | LA PUENTE | CA | 91744 |
| MARTHA VELASQUEZ | 14523 SW MILLIKAN WAY STE 200 | BEAVERTON | OR | 97005-2352 |
| MARTHA VELAZQUEZ | 24252 HIGH KNOB RD | DIAMOND BAR | CA | 91765-4203 |
| MARTI HAMPTON | 3242 HONEYSUCKLE AVE | PALMDALE | CA | 93550-1306 |
| MARTIN DAYTON | 45503 12TH ST W | LANCASTER | CA | 93534-1413 |
| MARTIN FORTE | 527 FRANKLIN PL | MONROVIA | CA | 91016-1519 |
| MARTIN GJELSVIK | 10557 HAMILTON RD | ROSAMOND | CA | 93560-6936 |
| MARTIN GOMEZ | 1332 99TH ST W | ROSAMOND | CA | 93560-7538 |
| MARTIN INGRAM | 15209 FONTHILL AVE | LAWNDALE | CA | 90260-2436 |
| MARTIN LANG | 16520 KALISHER ST | GRANADA HILLS | CA | 91344-3751 |
| MARTIN LOPEZ | 4939 N SAINT MALO AVE | COVINA | CA | 91722-1030 |
| MARTIN MC GOUGH | 1865 60TH ST W | ROSAMOND | CA | 93560-7370 |
| MARTIN MUELLER | 12020 JUNIPER HILLS RD | LITTLEROCK | CA | 93543-4202 |
| MARTIN NELSON | 12011 SUSAN DR | GRANADA HILLS | CA | 91344-2642 |
| MARTIN ORVILLE R / MARTIN PAMELA B | 17680 PANORAMA RD | LLANO | CA | 93544 |
| MARTIN POWARZYNSKI | 47505 172ND ST W | LANCASTER | CA | 93536-9000 |
| MARTIN ROBLEDO | PO BOX 1881 | ROSAMOND | CA | 93560-1881 |
| MARTIN TACK | 1197 HUDSPETH ST | SIMI VALLEY | CA | 93065-4559 |
| MARTIN TURLEY | 24228 TAMARISK AVE | BORON | CA | 93516 |
| MARTIN WHISLER | 29828 104TH ST E | LITTLEROCK | CA | 93543-3616 |
| MARTINA BARAJAS | 6501 IRVINE CENTER DR | IRVINE | CA | 92618-2118 |
| MARTINA MILLER | PO BOX 2671 | LANCASTER | CA | 93539-2671 |
| MARTINEAU FRANK B / MARTINEAU FRANK B JR | 10605 W AVENUE F | LANCASTER | CA | 93536-9359 |
| MARTINEZ ENEDINA | 2548 W AVENUE F | LANCASTER | CA | 93536-9566 |
| MARTINEZ MARIA | 40127 CASTANA LN | PALMDALE | CA | 93551 |
| MARTINEZ MARIANO / MARTINEZ FRANCES | 40830 COBBLESTONE CT | PALMDALE | CA | 93551-1849 |

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|---|---|---|---|---|---|
| MARTINEZ MARK | 23030 W AVENUE C | | LANCASTER | CA | 93536-9278 |
| MARTINEZ RANDOLPH J | 43031 FLAG ST | | LANCASTER | CA | 93536-4651 |
| MARVA HAWKINS | 7635 ALMERIA AVE | | FONTANA | CA | 92336-1704 |
| MARVIN ARRIOLA | 15523 S DENVER AVE | | GARDENA | CA | 90248-2112 |
| MARVIN CARTER | 2237 CLYDE AVE | | LOS ANGELES | CA | 90016-1016 |
| MARVIN CLARK | PO BOX 443 | | PEARBLOSSOM | CA | 93553-0443 |
| MARWAN CHAHAYED | 18321 VENTURA BLVD STE 880 | | TARZANA | CA | 91356-6433 |
| MARY ALLANSON | PO BOX 206 | | LAKE HUGHES | CA | 93532-0206 |
| MARY CALLAHAN | 1338 60TH ST W | | ROSAMOND | CA | 93560-6975 |
| MARY CAMPBELL | PO BOX 88 | | VALYERMO | CA | 93563-0088 |
| MARY CARREON | 6210 E AVENUE E | | LANCASTER | CA | 93535-7854 |
| MARY COBBETT | PO BOX 1470 | | ROSAMOND | CA | 93560-1470 |
| MARY CRAIN | PO BOX 415 | | BORON | CA | 93596-0415 |
| MARY DEARBORN | 2601 100TH ST W | | ROSAMOND | CA | 93560-7077 |
| MARY DENNIS | 43770 15TH ST W STE 125 | | LANCASTER | CA | 93534-5200 |
| MARY FAUGHT | 9416 OLEMA ST | | TEMPLE CITY | CA | 91780-1341 |
| MARY FELLOWS | 12200 SIERRA VIEW ST | | BORON | CA | 93516-1340 |
| MARY FONG | PO BOX 17933 | | SHREVEPORT | LA | 71138-0933 |
| MARY HALL | 5318 W AVENUE L6 | | QUARTZ HILL | CA | 93536-4444 |
| MARY HARTLEY | 4515 W AVENUE A | | ROSAMOND | CA | 93560 |
| MARY ITOGA | 445 KULIOUOU RD | | HONOLULU | HI | 96821-2232 |
| MARY JARO | 21972 YELLOWSTONE LN | | LAKE FOREST | CA | 92630-2325 |
| MARY KELLY | PO BOX 82169 | | SAN DIEGO | CA | 92138-2169 |
| MARY LIZOTTE | 21549 BANCROFT DR | | CALIF CITY | CA | 93505-1443 |
| MARY LOPEZ | 8812 LIME AVE | | CALIF CITY | CA | 93505-3425 |
| MARY MARTINEZ | PO BOX 268 | | LITTLEROCK | CA | 93543-0268 |
| MARY MILLER | 8016 SWEETSER RD | | ROSAMOND | CA | 93560-7156 |
| MARY MOFFETT | 10434 PIUTE RD | | JUNIPER HILLS | CA | 93543-4241 |
| MARY MOSES | 9442 SOMERSET BLVD | | BELLFLOWER | CA | 90706-3009 |
| MARY MURPHEY | 6355 E AVENUE H | | LANCASTER | CA | 93535-7802 |
| MARY PARE | 2935 DAVENPORT ST | | ROSAMOND | CA | 93560-7513 |
| MARY PARRISH | 5517 E AVENUE L | | LANCASTER | CA | 93535-8204 |
| MARY SORIANO | 1995 DEL CIERVO PL | | CAMARILLO | CA | 93012-4067 |
| MARY THURSTON | 36300 SIERRA HWY | | PALMDALE | CA | 93550-9340 |
| MARY VANDERHOPE | 14760 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3436 |
| MARY WILLHITE | 22847 W AVENUE D STE 6 | | LANCASTER | CA | 93536-9262 |
| MARY WOODHULL | 2057 100TH ST W | | ROSAMOND | CA | 93560-7054 |
| MASAYUKI WATANABE | 16416 GREGORIO DR | | HACIENDA HEIGHTS | CA | 91745-4937 |
| MASTIN STEPHEN | 7730 W AVENUE J | | LANCASTER | CA | 93536-7608 |
| MATHER HOYT / MATHER YADIRA | 30810 106TH ST E | | JUNIPER HILLS | CA | 93543-3660 |
| MATHIESON PAMELA | 11316 LINDA MESA RD | | LITTLEROCK | CA | 93543-4246 |
| MATHIS STEVEN R / MATHIS MARYANN | 4608 CINNABAR AVE | | PALMDALE | CA | 93551-1852 |
| MATLOCK | 25830 CHERRYHILL DR | | BORON | CA | 93516-1203 |
| MATSON BRADLEY F / MATSON NINA M | 28749 121ST ST E | | LITTLEROCK | CA | 93543-4205 |
| MATTHEW LEONE | 4712 67TH ST W | | ROSAMOND | CA | 93560-9003 |
| MATTHEW RAHIMZADEH | PO BOX 2944 | | CANYON CNTRY | CA | 91386-2944 |
| MATTIE BURGESS | 12300 SIERRA VIEW ST | | BORON | CA | 93516-1342 |
| MATTIE DAISY | 24224 JOSHUA AVE | | BORON | CA | 93516-1323 |
| MAURA RAMIREZ | 6501 IRVINE CENTER DR | | IRVINE | CA | 92618-2118 |
| MAUREEN ZUBIK | 36553 VISTA DEL LAGO ST | | PALMDALE | CA | 93551-7969 |
| MAX VAN RUNKLE | 19110 PANORAMA RD. | | VALYERMO | CA | 93563 |
| MAX VANRUNKLE | PO BOX 98 | | VALYERMO | CA | 93563-0098 |
| MAXEY KENNETH M JR / MAXEY TRUST | 43939 MUNZ RANCH RD | | LAKE HUGHES | CA | 93532-1206 |
| MAY STIRES | 1633 WABASSO WAY | | GLENDALE | CA | 91208-2440 |
| MAY TONG | 47603 224TH ST W | | LANCASTER | CA | 93536-9107 |
| MAYORGA ZENON / MAYORGA MARTHA S | 10820 4 WINDS RD | | LITTLEROCK | CA | 93543-3644 |
| MC CRACKEN | 2977 DORHAM CT | | SIMI VALLEY | CA | 93065-5203 |
| MCCALMAN MARK S / MCCALMAN CONSTANCE | 6817 W AVENUE H12 | | LANCASTER | CA | 93536-8398 |
| MCCARLEY ALICE M / WALKER ROEE C | 45320 95TH ST W | | LANCASTER | CA | 93536-8003 |
| MCCLUNG DONAN L JR / MCCLUNG YVETTE R | 18343 W AVENUE F | | LANCASTER | CA | 93536-9060 |
| MCCLURE DEBRA / BURTON CAROL C | 39601 220TH ST E | | PALMDALE | CA | 93591-4103 |
| MCCORMICK BRIAN R / MCCORMICK BETTY E | 45528 60TH ST W | | LANCASTER | CA | 93536-8321 |
| MCDONALD GEORGE L / MCDONALD KATHRYN | 6849 W AVENUE H12 | | LANCASTER | CA | 93536-8326 |
| MCELHANEY ANDREW / NAIDITCH GAY E | 31306 235TH ST E | | LLANO | CA | 93544-1536 |
| MCGARRY JOHN A JR / MCGARRY GAYLEEN M | 5163 E AVENUE F | | LANCASTER | CA | 93535-7817 |
| MCGEE MICHAEL | 20807 KINGSCREST DR | | SAUGUS | CA | 91350-1928 |
| MCGUINNESS EVELYNN R | 23501 W AVENUE D | | LANCASTER | CA | 93536-9259 |
| MCMILLAN CHRISTOPHER A | MCMILLAN REBECCA | 4150 W AVENUE D8 | LANCASTER | CA | 93536-9503 |
| MCNEIL ALBERT / MCNEIL GILDA | 44008 42ND ST W | | LANCASTER | CA | 93536-5869 |
| MCNUTT FREDERICK J / MCNUTT SUSAN L | 46057 70TH ST W | | LANCASTER | CA | 93536-8508 |
| MEDINA ELIZABETH M | 18630 E AVENUE Q | | PALMDALE | CA | 93591-4310 |
| MEDLIN CHRISTINE R | 33616 185TH ST E | | LLANO | CA | 93544-1422 |
| MELANIE CHRISTIANSEN | PO BOX 166 | | ROSAMOND | CA | 93560-0166 |
| MELANIE CHRISTIANSEN | PO BOX 416 | | ROSAMOND | CA | 93560-0416 |
| MELANIE MONTARIL | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| MELCHERS LIVING TR | PO BOX 1468 | | ROSAMOND | CA | 93560-1468 |
| MELEK CHRISTINA R | 40803 GRANITE ST | | PALMDALE | CA | 93551-1806 |
| MELVILLE ROBERT S / MELVILLE LISA J | 37109 THE GRVS | | PALMDALE | CA | 93551-6233 |
| MELVIN ENGLISH | 24169 JOSHUA AVE | | BORON | CA | 93516-1320 |
| MELVIN HANNAH | 21276 WHITE PINE DR SPC 92 | | TEHACHAPI | CA | 93561-9533 |
| MELVIN MORRIS | 11618 HAAS AVE | | HAWTHORNE | CA | 90250-1928 |
| MEMBRENO JOSE | 37135 THE GRVS | | PALMDALE | CA | 93551-6233 |
| MENTER MARY C / DANIELS DANNIE L | 7324 W AVENUE J | | LANCASTER | CA | 93536-7611 |
| MERCEDES ESCOBAR | 3300 83RD ST W | | ROSAMOND | CA | 93560 |
| MERCER TERISA R | 30543 LARGO VISTA RD | | LLANO | CA | 93544-1443 |
| MEREDITH POPE | 25022 CORIANDER CT | | STEVENSON RNH | CA | 91381-2215 |
| MERELENE GINTZ | 3446 S TWILIGHT ECHO RD | | TUCSON | AZ | 85735-5125 |

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|---|---|---|---|---|
| MERLIN PINNELL | 24650 BOBTAIL LN | LANCASTER | CA | 93536-9604 |
| MERRILLYN WILSON | 6012 SULTANA AVE | TEMPLE CITY | CA | 91780-1549 |
| MERRY COMM PROP TR | 23750 KILLION ST | WOODLAND HILLS | CA | 91367-5822 |
| MERRY WILLIAM | 4523 PARK VERONA | CALABASAS | CA | 91302-1779 |
| METTER RODNEY A / METTER WANDA S | 3151 E AVENUE H | LANCASTER | CA | 93535-1607 |
| MEYER HANS PETER & IPBI KIM | 14116 SE 44TH ST | BELLEVUE | WA | 98006-2334 |
| MEYER LESLIE / FRAZIER MELINDA | 47721 222ND ST W | LANCASTER | CA | 93536-9116 |
| MIAN KASHIF S | 2427 PLUMERIA LN | PALMDALE | CA | 93551 |
| MICHAEL AIREY | 23818 W AVENUE D12 | LANCASTER | CA | 93536-9118 |
| MICHAEL BEAN | PO BOX 1165 | SANTAQUIN | UT | 84655-1165 |
| MICHAEL BOHUSZ | 3934 KENTUCKY DR | LOS ANGELES | CA | 90068-1251 |
| MICHAEL BOOTT | 7547 NEWCASTLE AVE | RESEDA | CA | 91335-3250 |
| MICHAEL BRAUN | 19421 ORIENTE DR | YORBA LINDA | CA | 92886-2725 |
| MICHAEL BROWN | 1658 FALL CT | ROSAMOND | CA | 93560-6547 |
| MICHAEL BURTON | PO BOX 7 | HASTINGS | OK | 73548-0007 |
| MICHAEL CANADA | 24192 SAGE AVE | BORON | CA | 93516-1332 |
| MICHAEL COUNTER | 24438 SAGE AVE | BORON | CA | 93516-1338 |
| MICHAEL DUMIN | PO BOX 1348 | ROSAMOND | CA | 93560-1348 |
| MICHAEL EHLERT | 3 OLYMPIA | IRVINE | CA | 92604-1929 |
| MICHAEL FEJES | 11508 LINDA MESA RD | LITTLEROCK | CA | 93543-4223 |
| MICHAEL FORD | 7485 NEW HORIZON WAY BLDG 3 | FREDERICK | MD | 21703-8388 |
| MICHAEL FORDICE | PO BOX 8 | VALYERMO | CA | 93563-0008 |
| MICHAEL GARCIA | 12469 DEL ORO ST | BORON | CA | 93516-1355 |
| MICHAEL GARRETT | 1757 TAPO CANYON RD # 88 | SIMI VALLEY | CA | 93063-3391 |
| MICHAEL GELARDO | 24164 SAGE AVE | BORON | CA | 93516-1332 |
| MICHAEL GONZALES | 6843 ELDER AVE | ROSAMOND | CA | 93560-7282 |
| MICHAEL HAVAS | PO BOX 801474 | SANTA CLARITA | CA | 91380-1474 |
| MICHAEL HESSELTON | 4576 SWEETSER RD | ROSAMOND | CA | 93560-6450 |
| MICHAEL J. RAYFIELD | 37300 VERBENA COURT | PALMDALE | CA | 93551-6198 |
| MICHAEL JACKSON | PO BOX 2022 | ROSAMOND | CA | 93560-2022 |
| MICHAEL KIRSCH | 11740 WILSHIRE BLVD APT A1609 | LOS ANGELES | CA | 90025-6522 |
| MICHAEL LACROIX | PO BOX 500130 | LAKE LOS ANGELES | CA | 93550-0130 |
| MICHAEL LAWRENCE | 7155 W AVENUE J | LANCASTER | CA | 93536-7612 |
| MICHAEL LEWIS | 28400 CRUTHERS CREEK RD | PEARBLOSSOM | CA | 93553-3420 |
| MICHAEL LOUGHRY | 80 FOREST VIEW DR | SAN FRANCISCO | CA | 94132-1443 |
| MICHAEL LYTLE | 368 55TH ST W | ROSAMOND | CA | 93560-6542 |
| MICHAEL MACALUSO | 3726 VIA LAS VILLAS | OCEANSIDE | CA | 92056-7249 |
| MICHAEL MACKAY | 53 127TH ST W | ROSAMOND | CA | 93560-8201 |
| MICHAEL MANNING | 99 WYOMING ST | BOULDER CITY | NV | 89005-2803 |
| MICHAEL MCCARY | 1757 TAPO CANYON RD | SIMI VALLEY | CA | 93063-3391 |
| MICHAEL MCLAUGHLIN | 0 HCI BOX 690 | ELGIN | AZ | 85611 |
| MICHAEL PHILLIPS | 5304 GARDENDALE LN | PALMDALE | CA | 93551-2757 |
| MICHAEL PLANTE | PO BOX 2106 | ROSAMOND | CA | 93560-2106 |
| MICHAEL RAMSEY | 6828 WUNDERLIN AVE | SAN DIEGO | CA | 92114-2944 |
| MICHAEL ROBBINS | 5048 61ST ST W | ROSAMOND | CA | 93560-6463 |
| MICHAEL SEGAL | 1426 STATE HIGHWAY 58 | MOJAVE | CA | 93501-1961 |
| MICHAEL SELDITCH | 270 JAY ST APT 16E | BROOKLYN | NY | 11201-1951 |
| MICHAEL SMITH | 47052 5TH ST W | LANCASTER | CA | 93534-7501 |
| MICHAEL SUPPE | 18030 GASKELL RD | ROSAMOND | CA | 93560-7194 |
| MICHAEL THERIAULT | PO BOX 800253 | SANTA CLARITA | CA | 91380-0253 |
| MICHAEL TINITIGAN | 3054 DELTA RD | SAN JOSE | CA | 95135-1074 |
| MICHAEL TODD | 9764 SAMOA AVE | TUJUNGA | CA | 91042-3122 |
| MICHAEL TOWNLEY | 15956 LIVE OAK SPRINGS CANYON RD | CANYON COUNTRY | CA | 91387-3621 |
| MICHAEL WELSH | 35720 47TH ST E | PALMDALE | CA | 93552-6331 |
| MICHAEL YOST | 3608 GOLD STONE LN | ROSAMOND | CA | 93560-6808 |
| MICHELE DE LANO | 2860 100TH ST W | ROSAMOND | CA | 93560-7076 |
| MICHELE HILL | 5656 ELIZABETH LAKE RD | LEONA VALLEY | CA | 93551-7504 |
| MICHELE MORGAN | PO BOX 1090 | ROSAMOND | CA | 93560-1090 |
| MICHELE RHODEN | PO BOX 810 | PEARBLOSSOM | CA | 93553-0810 |
| MICHELE ROTONDO | 20 SUMMERFIELD ST | THOUSAND OAKS | CA | 91360-2916 |
| MICHELE SILMON | 14814 CASTLE BUTTE RD | NORTH EDWARDS | CA | 93523-3247 |
| MICHELLE BUTCHER | PO BOX 720193 | PINON HILLS | CA | 92372-0193 |
| MICHELLE CALDERA | PO BOX 606 | ROSAMOND | CA | 93560-0606 |
| MICHELLE DIAZ | 3141 W AVENUE M2 | LANCASTER | CA | 93536-2840 |
| MICHELLE EPPS | PO BOX 2423 | ROSAMOND | CA | 93560-2423 |
| MICHELLE FLANAGAN | 9241 W AVENUE A | ROSAMOND | CA | 93560-7083 |
| MICHELLE OLGUIN | 14839 NEEDLES ST | NORTH HILLS | CA | 91343-2431 |
| MICHELLE PALMQUIST | 12490 EL MIRAGE ST | BORON | CA | 93516-1353 |
| MICHELLE PERRY | 41337 ALMOND AVE | PALMDALE | CA | 93551-2841 |
| MICHELLE PIOUS | 4254 N IRVING ST | KINGMAN | AZ | 86409-2620 |
| MICHELLE THOMPSON | 46118 N 80TH WEST ST | LANCASTER | CA | 93536 |
| MICK LARRY G | 10909 E JUNIPER HILLS RD | LITTLEROCK | CA | 93543 |
| MICKEY ODEN | PO BOX 845 | SILETZ | OR | 97380-0845 |
| MID OHIO SEC. CORP. CSTDN | 5656 STOCKTON LOOP | LIVERMORE | CA | 94550-7382 |
| MIDDLE BUTTES PARTNERS LTD | PO BOX 20 | LANCASTER | CA | 93584-0020 |
| MIDDLETON CHARLES A | 8418 W AVENUE A | ROSAMOND | CA | 93560-7291 |
| MIGUEL ACEVEDO | 2578 ELLIOT CT | SANTA CLARA | CA | 95051-1849 |
| MIGUEL RAMOS | PO BOX 2687 | LANCASTER | CA | 93539-2687 |
| MIGUEL RODRIGUEZ | 35820 106TH ST E | LITTLEROCK | CA | 93543-2800 |
| MILAGROS GONZALEZ | 1245 BROAD AVE | WILMINGTON | CA | 90744-2619 |
| MILANA VIII LLC AND | 2445 STANLEY | TUSTIN | CA | 92782-1275 |
| MILBOURNE EARL F | 3336 W AVENUE H | LANCASTER | CA | 93536-8335 |
| MILBOURNE JOHN H / MILBOURNE FAMILY | 2738 W AVENUE H | LANCASTER | CA | 93536-8336 |
| MILDRED ASHPAUGH | 2797 MAGNOLIA ST | CAMARILLO | CA | 93012-8044 |
| MILDRED BALL | 430 OAKGLEN CT | SAN DIMAS | CA | 91773-3260 |
| MILDRED BEARDEN | 24263 JOSHUA AVE | BORON | CA | 93516-1322 |
| MILDRED KLING | 18418 SANTA ISADORA ST | FOUNTAIN VLY | CA | 92708-5525 |

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|---|---|---|---|---|---|
| MILLARD LEWIS | 3604 PRINCETON AVE | | DALLAS | TX | 75205-3249 |
| MILLER BRET | 45557 MUNZ RANCH RD | | LANCASTER | CA | 93536-9036 |
| MILLER ERWIN L / MILLER ROSA L | 45520 60TH ST W | | LANCASTER | CA | 93536-8321 |
| MILLER LEONARD | 24227 HERITAGE LN | | NEWHALL | CA | 91321-3562 |
| MILLS RICHARD J / MILLS PAMELA | 47044 5TH ST W | | LANCASTER | CA | 93534-7501 |
| MILTON BURBANO | 1665 SW 116TH AVE | | PEMBROKE PINES | FL | 33025-3758 |
| MIN DO CHONG / YON SUK CHAE | 27500 LARGO VISTA RD | | VALYERMO | CA | 93563-1004 |
| MIN DO CHONG / YON SUK CHAE | 20033 BIG PINES HWY | | VALYERMO | CA | 93563-1002 |
| MINDLIN YUNA | 6056 SUNNYCREST DR | | OAK PARK | CA | 91377-3846 |
| MINDY LUCAS | 20336 BASSETT ST | | WINNETKA | CA | 91306-3506 |
| MINDY NGUYEN | 914 ROSITA ST | | SANTA ANA | CA | 92703-1531 |
| MINE MNRL PRCS WRKRS BLDG ASSN | 24001 CHAPARRAL AVE | | BORON | CA | 93516-1301 |
| MINNIE COOK | PO BOX 2175 | | ROSAMOND | CA | 93560-2175 |
| MINNIE WHEAT | 263 PICTORIAL ST | | PALMDALE | CA | 93550-3025 |
| MIRIAM SANCHEZ | 4103 LAYMAN AVE | | PICO RIVERA | CA | 90660-1714 |
| MIRNA TERAN | 40817 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| MISTY JACOBY | 13015 W RANCHO SANTA FE BLVD | APT 2153 | AVONDALE | AZ | 85392-1743 |
| MITCHEL DANE | PO BOX 6386 | | LANCASTER | CA | 93539-6386 |
| MITCHEL NAKAAHIKI | 24286 JUNIPER AVE | | BORON | CA | 93516-1329 |
| MITCHELL KENNY L / MITCHELL JOANNA M | 3350 TWINCREEK CT | | PALMDALE | CA | 93551-1080 |
| MITCHELL OLIVER | 1808 DEVEREAUX DR | | BURLINGAME | CA | 94010-4642 |
| MITRA GASSEMI | 1602 CHURCH ST | | SIMI VALLEY | CA | 93065-3979 |
| MITZI BARNES | 45460 070 ST W | | LANCASTER | CA | 93536 |
| MOHAMMAD DAOOD | 18154 MEDLEY DR | | ENCINO | CA | 91316-4446 |
| MOHAMMAD SARAIPOUR | PO BOX 943 | | LAWNDALE | CA | 90260-0943 |
| MOHAMMED IRAN | 42302 ENCANTO WAY | | QUARTZ HILL | CA | 93536-3765 |
| MOJAVE DESERT BK | 15773 K ST | | MOJAVE | CA | 93501-1708 |
| MOJAVE DESERT BK | 15773 K ST | | MOJAVE | CA | 93501-1708 |
| MOLLIE MC PHERSON | 5921 WILLOW AVE | | ROSAMOND | CA | 93560-7235 |
| MONICA CHEVEZ | 9871 SAHARA AVE | | ROSAMOND | CA | 93560-7066 |
| MONICA GARCIA | 171 CAGEL ST | | ROSAMOND | CA | 93560-6906 |
| MONTGOMERY MELANIE N | 37309 THE GRVS | | PALMDALE | CA | 93551-6236 |
| MONTGOMERY STARKS | 620 NE 2ND ST | | OKLAHOMA CITY | OK | 73104-6610 |
| MOON CHANG | 3671 W 6TH ST | | LOS ANGELES | CA | 90020-3026 |
| MOONEY JOHN T / MOONEY TARA | 18405 W AVENUE F4 | | LANCASTER | CA | 93536-9045 |
| MOORE ARTHUR S / MOORE DELILAH K | 31000 233RD ST E | | LLANO | CA | 93544-1503 |
| MOORE FAMILY 1991 TRUST | 14215 JONES RD | | FALCON | CO | 80831-8131 |
| MOORE SANDRA J | 10665 W AVENUE J | | LANCASTER | CA | 93536-7718 |
| MOREL MARTIN G / MOREL SINA | 16617 PEARBLOSSOM HWY | | LLANO | CA | 93544-1143 |
| MORGA VENANCIO / MORGA SOCORRO | 6175 HOLIDAY AVE | | ROSAMOND | CA | 93560-6519 |
| MORGAN BARNES | 605 S AVENUE 60 | | LOS ANGELES | CA | 90042-4304 |
| MORGAN RUSSELL B / MORGAN TRUDY A | 30553 LARGO VISTA RD | | LLANO | CA | 93544-1443 |
| MORRIS WAYNE R SR / MORRIS WAYNE SR | 6507 W AVENUE G | | LANCASTER | CA | 93536 |
| MOUNTAIN BROOK RANCH LLC | PO BOX 900697 | | PALMDALE | CA | 93590-0697 |
| MOUTH OF HIDDEN VALLEY LLC | PO BOX 2567 | | ROSAMOND | CA | 93560-2567 |
| MULLENS DOUGLAS E / MULLENS TERESA L | 46920 67TH ST W | | LANCASTER | CA | 93536-8516 |
| MULLIN MARCIA L | 815 PARK DR | | SHERIDAN | WY | 82801-2326 |
| MUNZ BARRY S / MUNZ TERRY ; KATHLEEN M | 12701 LANCASTER RD | | LANCASTER | CA | 93536-9014 |
| MUNZ REVA R / FAMILY REVA | 45715 MUNZ RANCH RD | | LANCASTER | CA | 93536-9035 |
| MURIEL POLAR | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| MURPHY WILLIAM A / MURPHY TRUST | 27701 LARGO VISTA RD | | VALYERMO | CA | 93563-1005 |
| MUSTAFA SHAGROON | 8282 CALVINE RD APT 1105 | | SACRAMENTO | CA | 95828-9320 |
| MYERS CLAYTON N / MYERS MICAELA A | 9720 E AVENUE G10 | | LANCASTER | CA | 93535-8425 |
| MYNEAR GERTRUD V | 48999 212TH ST W | | LANCASTER | CA | 93536-9101 |
| MYONG BOYADJIAN | 1600 KAPIOLANI BLVD # 930 | | HONOLULU | HI | 96814-3801 |
| MYOUNG LEE | 3612 EASTFIELD RD | | CARMEL | CA | 93923-9452 |
| MYRIAM CALVERT | 8844 ARDENDALE AVE | | SAN GABRIEL | CA | 91775-1904 |
| MYRON MAKI | PO BOX 1044 | | STERLING | AK | 99672-1044 |
| MYRTLE JACKSON | PO BOX 2328 | | ROSAMOND | CA | 93560-2328 |
| MYUNG SOOK LEE | 8908 WILSON RANCH RD | | PHELAN | CA | 92371-7230 |
| NADIM MAIDA | 350 DELAWARE DR | | VENTURA | CA | 93001-1219 |
| NADINE STERBA | 27720 MANSFIELD CT | | VALENCIA | CA | 91354-1623 |
| NAHAPET BOYADJIAN | 1600 KAPIOLANI BLVD # 930 | | HONOLULU | HI | 96814-3801 |
| NAN CARDER | 6120 E AVENUE G | | LANCASTER | CA | 93535-7809 |
| NANCY AMAYA | 24072 CHAPARRAL AVE | | BORON | CA | 93516-1302 |
| NANCY BEAZEL | 9740 E AVENUE G10 | | LANCASTER | CA | 93535-8425 |
| NANCY COVERDILL | 28650 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553 |
| NANCY DOWDY | 12321 SIERRA VIEW ST | | BORON | CA | 93516-1341 |
| NANCY GILBERT | 6851 W AVENUE I | | LANCASTER | CA | 93536-8319 |
| NANCY GRABE | PO BOX 57 | | PEARBLOSSOM | CA | 93553-0057 |
| NANCY HITT | PO BOX 1779 | | ROSAMOND | CA | 93560-1779 |
| NANCY KIMBROUGH | 4635 SWEETSER RD | | ROSAMOND | CA | 93560-6454 |
| NANCY LARSON | 22217 233RD AVE SE | | MAPLE VALLEY | WA | 98038-8411 |
| NANCY LEE | 435 S CURSON AVE | APT 10J | LOS ANGELES | CA | 90036-5239 |
| NANCY MCLAUGHLIN | 0 HCI BOX 690 | | ELGIN | AZ | 85611 |
| NANCY RANKIN | 7226 DAWN RD | | ROSAMOND | CA | 93560-6458 |
| NANCY RICHARDSON | 16761 FOOTHILL AVE | | NORTH EDWARDS | CA | 93523-3535 |
| NANCY SWINDLEHURST | 24405 TAMARISK AVE | | BORON | CA | 93516-1351 |
| NAPIER ROBERT M / NAPIER HSIAO H | 39447 DUON LN | | PALMDALE | CA | 93551 |
| NARCILE PINA | 12201 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| NAREERATN JOTIKASTHIRA | 28304 MOUNT STEPHEN AVE | | CANYON CNTRY | CA | 91387-3141 |
| NASIR M R | 1403 N FAIR OAKS AVE | STE 2 | PASADENA | CA | 91103-1893 |
| NATALIE HULSE | 38701 BANYAN PL | | MORENO VALLEY | CA | 92551 |
| NATHANIEL BROWN | 13445 FRAN ST | | NORTH EDWARDS | CA | 93523-3424 |
| NATIONAL CITY BANK | 150 ALLEGHENY CENTER MALL | | PITTSBURGH | PA | 15212-5335 |
| NATIONSTAR MORTGAGE LLC | 350 HIGHLAND DR | | LEWISVILLE | TX | 75067-4177 |
| NATIONWIDE ASSET MANAGEMENT LP | 8721 SANTA MONICA BLVD STE 1019 | | LOS ANGELES | CA | 90069-4507 |

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|---|---|---|---|---|---|
| NEAL | PO BOX 1411 | | ROSAMOND | CA | 93560-1411 |
| NEIL REMINGTON | PO BOX 6336 | | SAN PEDRO | CA | 90734-6336 |
| NELLIE ANDERSON | 25062 ATWOOD BLVD | | NEWHALL | CA | 91321-3402 |
| NELLIE LANK | PO BOX 136 | | BORON | CA | 93596-0136 |
| NELSON CHACON | 5623 CASITA CT | | PALMDALE | CA | 93552-4659 |
| NELSON ESTHER | 36524 W JONES AVE | | TONOPAH | AZ | 85354-7570 |
| NELSON NONI J | 2033 W AVENUE K10 | | LANCASTER | CA | 93536-4608 |
| NENA CO | 910 EUCLID AVE APT 82 | | NATIONAL CITY | CA | 91950-3839 |
| NEOMI LYNCH | 13120 BRADLEY AVE | SPC 3 | SYLMAR | CA | 91342-0686 |
| NEVILLE SOLOMON | 1400 COLUMBIA AVE | | ALAMOGORDO | NM | 88310-8016 |
| NEW LIFE CHR OF GOD IN CHRIST | PO BOX 1585 | | ROSAMOND | CA | 93560-1585 |
| NEWCOMER JACOB C III / NEWCOMER BEVERLY | 47141 167TH ST W | | LANCASTER | CA | 93536-9044 |
| NEWHALL WIRE INC | 12240 JOLETTE AVE | | GRANADA HILLS | CA | 91344-1630 |
| NGOC TRAN | 19351 HICKORY LN | | HUNTINGTN BCH | CA | 92646-2746 |
| NGUYEN LAP QUOC | 14850 PURCHE AVE | | GARDENA | CA | 90249-3743 |
| NHAN NGO | 1798 QUIMBY RD | | SAN JOSE | CA | 95122-1236 |
| NICHOLAS LAGATUTTA | 31 S ELLIS PL | | NEWBURY PARK | CA | 91320-4506 |
| NICHOLAS SMITH | 24159 SAGE AVE | | BORON | CA | 93516-1331 |
| NICHOLAS TOTH | 34270 CHESEBORO RD | | PALMDALE | CA | 93552-6505 |
| NICHOLAS VALASQUEZ | 762 70TH ST W | | ROSAMOND | CA | 93560-7034 |
| NICK MELNIKOFF | 1305 N BASCOM AVE STE 1 | | SAN JOSE | CA | 95128-1248 |
| NICOLAS CORDOBA | 25186 PATTERSON RD | | LANCASTER | CA | 93536-9606 |
| NICOLE CARNEY | 1401 99TH ST W | | ROSAMOND | CA | 93560-7090 |
| NICOLE DYER | 8301 MOJAVE AVE | | ROSAMOND | CA | 93560-7188 |
| NIGEL HOLLY | PO BOX 902586 | | PALMDALE | CA | 93590-2586 |
| NINA GASS | 37304 DEL MAR ST | | PALMDALE | CA | 93552-4666 |
| NINA WILSON | 18100 W AVENUE F | | LANCASTER | CA | 93536-9058 |
| NIPA KAEWIMONRAT | 1600 N BRONSON AVE | APT 34 | LOS ANGELES | CA | 90028-9202 |
| NOELIA ECHESABAL | 11611 AYRES AVE | | LOS ANGELES | CA | 90064-2905 |
| NOELIA MONROY | PO BOX 2980 | | LANCASTER | CA | 93539-2980 |
| NOLET EARL | 41016 150TH ST E | | LANCASTER | CA | 93535-7013 |
| NOMURA CREDIT AND CAPITAL INC | 3374 WALDEN AVE | # 120 | DEPEW | NY | 14043-2437 |
| NORA DENNIS | PO BOX 1150 | | PACIFIC PALISADES | CA | 90272-1150 |
| NORBERTO ALEJOS | 10342 WOODROSE AVE | | SANTEE | CA | 92071-1702 |
| NORDBLOM ROY H / NORDBLOM NORMA | 48903 120TH ST E | | LANCASTER | CA | 93535-8013 |
| NORMA BLACK | PO BOX 1088 | | ROSAMOND | CA | 93560-1088 |
| NORMA CARTER | 2110 4TH ST | APT 17 | SANTA MONICA | CA | 90405-2343 |
| NORMA DEVEAUX | 1113 S SYCAMORE AVE | | LOS ANGELES | CA | 90019-1532 |
| NORMA THOMPSON | PO BOX 3365 | | QUARTZ HILL | CA | 93586-0365 |
| NORMAN EASTWOOD | 27 PACKET RD | | RCH PALOS VRD | CA | 90275-5827 |
| NORMAN LIZOTTE | 21549 BANCROFT DR | | CALIF CITY | CA | 93505-1443 |
| NORMAN REED | 14411 BRIGHTSTAR AVE | | ROSAMOND | CA | 93560-7099 |
| NORMAN THOMPSON | 8950 DALTON AVE | | LOS ANGELES | CA | 90047-3630 |
| NORMANS NURSERY INC | 8665 DUARTE RD | | SAN GABRIEL | CA | 91775-1139 |
| NORMANS NURSERY INC | 8665 DUARTE RD | | SAN GABRIEL | CA | 91775-1139 |
| NORTH GATE DEVELOPMENT LLC | 11524 ZAGAROLO LN | | LAS VEGAS | NV | 89141-3226 |
| NORTON JAMES | 6200 SUNSET RIDGE RD | | GOLETA | CA | 93117-1786 |
| NOWAK CHESTER / NOWAK MARY J | 42049 67TH ST W | APT B | LANCASTER | CA | 93536-3837 |
| NUNN SHIRLEY A | 39362 185TH ST E | | PALMDALE | CA | 93591-4319 |
| NUSRAT KHAN | 3950 W 226TH ST APT 71 | | TORRANCE | CA | 90505-2357 |
| NUTAN PAWA | 15623 LUCILLE CT | | CANYON COUNTRY | CA | 91387-4438 |
| NYE JAMES D / NYE DIANE L | 8690 E AVENUE F | | LANCASTER | CA | 93535-7926 |
| OAK VIEW PROPERTIES INC | 750 SPRING ST | | OAK VIEW | CA | 93022-9715 |
| OBERG JOHN S / OBERG LAURA G | 47106 70TH ST E | | LANCASTER | CA | 93535-7838 |
| OCEAN LN I | 1785 HANCOCK ST STE 100 | | SAN DIEGO | CA | 92110-2051 |
| ODIS SNEED | 29757 CROMWELL AVE | | CASTAIC | CA | 91384-4611 |
| OFELIA CARLOS | 3002 ALSACE AVE | | LOS ANGELES | CA | 90016-3802 |
| OGDEN RICKY | 9222 E AVENUE E | | LANCASTER | CA | 93535-7934 |
| OK HONG YOUNG | 31888 DEL OBISPO ST STE C10 | | SAN JUAN CAPO | CA | 92675-3700 |
| OLAF LANDSGAARD | PO BOX 2567 | | ROSAMOND | CA | 93560-2567 |
| OLGA ENGEL | 7334 E BLACK ROCK RD | | SCOTTSDALE | AZ | 85255-6108 |
| OLGA FIORELLA | 1738 N AVON ST | | BURBANK | CA | 91505-1503 |
| OLGA FRAGOSO | 14181 GRAMMAR PL | | PANORAMA CITY | CA | 91402-3234 |
| OLGA HUERTA | 40104 166TH ST E | | PALMDALE | CA | 93591-3039 |
| OLIN DERRICK | 8847 E AVENUE G12 | | LANCASTER | CA | 93535-7905 |
| OLIVAREZ TONY / OLIVAREZ ROBIN | 2305 EVENING PRIMROSE AVE | | PALMDALE | CA | 93551-4184 |
| OLIVEIRA JEFFREY | 43030 FAIRLEE DR | | LANCASTER | CA | 93536-4605 |
| OLIVER JAMES E JR / CLEMENS WENDY L | 45249 80TH ST W | | LANCASTER | CA | 93536-8119 |
| OLIVIA REYNOLDS | 29867 WISTERIA VALLEY RD | | SANTA CLARITA | CA | 91387-1942 |
| OLMEDO FRANCISCO / AVELAR MARIA R | 8060 E AVENUE H | | LANCASTER | CA | 93535-7900 |
| OLSEN ANDREW S ; MIRIAM D / OLSEN TRUST | 4544 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| OLSEN NATHANIEL II / OLSEN DIANE | 12050 JUNIPER HILLS RD | | JUNIPER HILLS | CA | 93543-4202 |
| OMY TRINIDAD | 40928 GRANITE ST | | PALMDALE | CA | 93551-1809 |
| ONG MINH | PO BOX 6314 | | ROSEMEAD | CA | 91770-6314 |
| OOKIE LEE | 25269 THE OLD RD STE B | | STEVENSON RANCH | CA | 91381-2202 |
| OPAL BOWER | 21409 ADAM DR | | TEHACHAPI | CA | 93561-8817 |
| ORBY ENDSLEY | PO BOX 720006 | | PINON HILLS | CA | 92372-0006 |
| ORDWAY STEVE P | 12401 LE PAGE RANCH RD | | PEARBLOSSOM | CA | 93553-3478 |
| OREATHA JOSEPH | 13131 EUSTACE ST | | ARLETA | CA | 91331-1044 |
| ORLANDO LOPEZ | 1121 L ST FL 7 | | SACRAMENTO | CA | 95814-3970 |
| ORTIZ FAMILY LLC | 417 ANDRUSS PL | | MONTEBELLO | CA | 90640-3729 |
| ORTIZ FRANK D | 12747 E AVENUE E | | LANCASTER | CA | 93535-8004 |
| ORTIZ WENDY | 9159 W AVENUE A | | ROSAMOND | CA | 93560-7088 |
| OSCAR MAGDALENO | 2075 BAYWOOD CT | APT 157 | LANCASTER | CA | 93536-7291 |
| OSLING EURIMICA M / OSLING MORRELL A | 44629 JEFFERSON ST | | LANCASTER | CA | 93535-2839 |
| OSTORGA LEONIDAS / AVELENDA CARLA | 44647 JEFFERSON ST | | LANCASTER | CA | 93535-2839 |
| OSVALDO ORTIZ | 4871 COLUMBIA WAY | | LANCASTER | CA | 93536-2908 |

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|---|---|---|---|---|---|
| OTHON ESPINOZA | 2944 65TH ST W | | ROSAMOND | CA | 93560-6925 |
| OTILIA FENNELL | 8408 SWEETSER RD | | ROSAMOND | CA | 93560-7096 |
| OTIS DAVID E / OTIS SALLY A | 12635 MURPHYS LN | | PEARBLOSSOM | CA | 93553-3443 |
| OTTO BERTHELSEN | PO BOX 215 | | YARNELL | AZ | 85362-0215 |
| OWEN RICK A | 207 E AVENUE F10 | | LANCASTER | CA | 93535-6408 |
| P S C RANCHES INC | 50235 N 00082 ST WEST | | LANCASTER | CA | 93536 |
| PABLO DUARTE | 6901 E WILLIAMS CIR | | ANAHEIM | CA | 92807-5121 |
| PABLO UNABIA | 1841 S WOOSTER ST | | LOS ANGELES | CA | 90035-4334 |
| PADGETT GERALD L / PADGETT ANTOINETTE M | 7554 W AVENUE J | | LANCASTER | CA | 93536-7610 |
| PADILLA IMELDA G / PADILLA SERGIO G | 44667 31ST ST W | | LANCASTER | CA | 93536-8367 |
| PADILLA RAMIRO / PADILLA IRMA | 9051 E AVENUE E | | LANCASTER | CA | 93535-7936 |
| PALMS LANCASTER | 7116 VALJEAN AVE | | VAN NUYS | CA | 91406-3901 |
| PAMELA ANYADIKE | 537 S FLOWER ST | APT 2 | INGLEWOOD | CA | 90301-5596 |
| PAMELA DENTON | 430 55TH ST W | | ROSAMOND | CA | 93560-6968 |
| PAMELA LOGAN | 31969 EMERALD LN | | CASTAIC | CA | 91384-3102 |
| PAMELA OLSEN | PO BOX 1526 | | ROSAMOND | CA | 93560-1526 |
| PAMELA RHODESROGERS | PO BOX 6198 | | LANCASTER | CA | 93539-6198 |
| PAMELA RICHARDSON | 5420 62ND ST W | | ROSAMOND | CA | 93560-6254 |
| PAMELA TURK | PO BOX 865 | | PEARBLOSSOM | CA | 93553-0865 |
| PAMELA TURLEY | 24228 TAMARISK AVE | | BORON | CA | 93516 |
| PAMELLA ZAMRZLA | 48910 80TH ST W | | LANCASTER | CA | 93536-8740 |
| PANFILO CASTILLO | 1358 100TH ST W | | ROSAMOND | CA | 93560-7267 |
| PANKAJ PATEL | PO BOX 1207 | | ROSAMOND | CA | 93560-1207 |
| PANNA ARORA | 5936 LEMP AVE | | N HOLLYWOOD | CA | 91601-1025 |
| PANNA PATEL | 2076 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7693 |
| PARAMO GABRIEL G | 18753 E AVENUE R8 | | PALMDALE | CA | 93591-4302 |
| PARKER ARTHUR | 20635 E AVENUE Q12 | | PALMDALE | CA | 93591-4504 |
| PARRISH MARY | 5517 E AVENUE L | | LANCASTER | CA | 93535-8204 |
| PARVANEH KADIVAR | 1083 N HILLCREST RD | | BEVERLY HILLS | CA | 90210-2612 |
| PASCO REV TR | 1733 LORENZEN DR | | SAN JOSE | CA | 95124-1741 |
| PASSMORE RICHARD A JR | 9956 CIMA MESA RD | | JUNIPER HILLS | CA | 93543-3656 |
| PAT MURPHY | 18655 WEST AVENUE E | | LANCASTER | CA | 93536 |
| PATRICIA BANUK | 15259 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7288 |
| PATRICIA BHATTI | 3310 E AVENUE K | | LANCASTER | CA | 93535 |
| PATRICIA FOLCK | 355 E GLADSTONE ST | | SAN DIMAS | CA | 91773-1902 |
| PATRICIA GARCIA | 12469 DEL ORO ST | | BORON | CA | 93516-1355 |
| PATRICIA GREENE | PO BOX 760 | | ROSAMOND | CA | 93560-0760 |
| PATRICIA HOUSTON | 5301 60TH ST W | | ROSAMOND | CA | 93560-6265 |
| PATRICIA HOWARD | 12490 SIERRA VIEW ST | | BORON | CA | 93516-1352 |
| PATRICIA JACKSON | PO BOX 1624 | | ROSAMOND | CA | 93560-1624 |
| PATRICIA KNITTEL | 34447 SQUAW LEAP LN | | AUBERRY | CA | 93602-9675 |
| PATRICIA LACHENEY | 11054 MANZANITA MESA RD | | LITTLEROCK | CA | 93543-4227 |
| PATRICIA LOAISIGA | PO BOX 900031 | | PALMDALE | CA | 93590-0031 |
| PATRICIA MONGIANO | 41902 LOMA VIS | | LANCASTER | CA | 93536-2831 |
| PATRICIA PHILLIPS | 5304 GARDENDALE LN | | PALMDALE | CA | 93551-2757 |
| PATRICIA PROCTOR WARDLOW | PO BOX 627 | | DANDRIDGE | TN | 37725-0627 |
| PATRICIA SAYLES | 27776 TIRANTE | | MISSION VIEJO | CA | 92692-2733 |
| PATRICIA SCRUGGS | 6063 W AVENUE J3 | | LANCASTER | CA | 93536-7528 |
| PATRICIA SMITH | 6848 W AVENUE D8 | | LANCASTER | CA | 93536-8819 |
| PATRICIA VAUGHN | 6035 SCARLET LEAF DR | | MEMPHIS | TN | 38141-7624 |
| PATRICIA WOODRUFF | 183 W 6TH ST | | CORNING | NY | 14830-3027 |
| PATRICK DUFFY | PO BOX 900554 | | PALMDALE | CA | 93590-0554 |
| PATRICK GRANICY | PO BOX 911 | | LANCASTER | CA | 93584-0911 |
| PATRICK HOLT | 16197 H ST | APT 189 | MOJAVE | CA | 93501-1530 |
| PATRICK KEARNS | 14035 DICKY ST APT B | | WHITTIER | CA | 90605-3129 |
| PATRICK LENNON | PO BOX 1063 | | PEARBLOSSOM | CA | 93553-1063 |
| PATRICK MC DANIEL | 9490 CARMEL RD | | ATASCADERO | CA | 93422-6202 |
| PATSY FELIX | 7884 ROLAND AVE | | ROSAMOND | CA | 93560-7023 |
| PATSY VERNON | 835 TALISMAN DR | | PALO ALTO | CA | 94303-4449 |
| PATTEN JANET J LIVING TRUST | 47803 60TH ST E | | LANCASTER | CA | 93535-7826 |
| PATTERSON ELINORE E | 8051 W AVENUE B10 | | LANCASTER | CA | 93536-9515 |
| PATTERSON WAYNE L | 41657 150TH ST E | | LANCASTER | CA | 93535-7015 |
| PATTY MLINAR | 24360 JUNIPER AVE | | BORON | CA | 93516-1364 |
| PAUL ALLISON | 11985 GASKELL RD | | ROSAMOND | CA | 93560-7055 |
| PAUL HARTWIG | 1720 W AVENUE L4 | | LANCASTER | CA | 93534-6951 |
| PAUL HERBERT | 21216 E AVENUE R | | PALMDALE | CA | 93591-4602 |
| PAUL HOANG | 5532 WHITTIER BLVD | | COMMERCE | CA | 90022-4104 |
| PAUL JOHNSON | 658 TULAROSA DR | APT A | LOS ANGELES | CA | 90026-3679 |
| PAUL KNERR | 19300 W AVENUE C | | LANCASTER | CA | 93536-9283 |
| PAUL KOSLO | 17539 ELIZABETH LAKE RD | | LAKE HUGHES | CA | 93532 |
| PAUL MATEIRO | 12349 SIERRA VIEW ST | | BORON | CA | 93516-1341 |
| PAUL MYLES | 6195 105TH ST W | | ROSAMOND | CA | 93560-6935 |
| PAUL RAMIREZ | 14523 SW MILLIKAN WAY STE 200 | | BEAVERTON | OR | 97005-2352 |
| PAUL SHERMAN | 15743 HESBY ST | | ENCINO | CA | 91436-1532 |
| PAUL STEWART | 5817 E AVENUE E | | LANCASTER | CA | 93535-7846 |
| PAUL THOMPSON | 6723 GASKELL RD | | ROSAMOND | CA | 93560-7132 |
| PAUL ZAPPULLA | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| PAULA COUNTER | 24438 SAGE AVE | | BORON | CA | 93516-1338 |
| PAULA ELLIS | 4360 W AVENUE B 8 | | LANCASTER | CA | 93584 |
| PAULA MARKLEY | PO BOX 1612 | | ROSAMOND | CA | 93560-1612 |
| PAULA PALACIOS | PO BOX 447 | | MOORPARK | CA | 93020-0447 |
| PAULA RITTER | 47932 90TH ST W | | LANCASTER | CA | 93536-9303 |
| PAULA ROSALES | 217 ELM ST | | ALHAMBRA | CA | 91801-3008 |
| PAULA SMILLIE | 9668 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7506 |
| PAULA WHEELOCK | 9349 E AVENUE T12 | | LITTLEROCK | CA | 93543-3526 |
| PAULETTE LANG | 16520 KALISHER ST | | GRANADA HILLS | CA | 91344-3751 |
| PAULETTE WADLEIGH | 43716 BRAVO LN | | LANCASTER | CA | 93535-5823 |

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| PAULINE ZESS | PO BOX 415 | | PEARBLOSSOM | CA | 93553-0415 |
| PAYTON ERNEST / PAYTON ELIZABETH | 38650 LOUISE LN | | PALMDALE | CA | 93551-5421 |
| PEARL LEE | 135 W GREEN ST STE 100 | | PASADENA | CA | 91105-4131 |
| PEARL LEE | 560 S SANTA ANITA AVE | | SAN MARINO | CA | 91108-1417 |
| PEARLINE HAMPTON | PO BOX 5958 | | LANCASTER | CA | 93539-5958 |
| PEDRO DOMINQUEZ | 5770 SUE AVE | | ROSAMOND | CA | 93560-7524 |
| PEDRO LOPEZ | 11808 FELLOWS AVE | | SAN FERNANDO | CA | 91340-1812 |
| PEGGY CARTER | 2333 E MEADOW LARK WAY | | SAN TAN VLY | AZ | 85140-5618 |
| PEGGY DAVIS | 18832 OAK RIDGE DR | | SANTA ANA | CA | 92705-2252 |
| PEGGY DO | 11833 EMERY ST | | EL MONTE | CA | 91732-1615 |
| PEGGY HATFIELD | 818 60TH ST W | | ROSAMOND | CA | 93560-6910 |
| PEGGY LAGATUTTA | 31 S ELLIS PL | | NEWBURY PARK | CA | 91320-4506 |
| PEGGY SMITH | PO BOX 344 | | ROSAMOND | CA | 93560-0344 |
| PEGGY WYLY | 12162 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3493 |
| PEMELA HARO | 24452 TAMARISK AVE | | BORON | CA | 93516-1358 |
| PENALOZA GUILLERMO / PENALOZA SUSANA | 19021 E AVENUE Q | | PALMDALE | CA | 93591-4404 |
| PENLAND GLEN | 29348 123RD ST E | | PEARBLOSSOM | CA | 93553-3491 |
| PENNY DAYTON | 38749 17TH ST E | | PALMDALE | CA | 93550-3949 |
| PENNY SCHAEFER | 4540 W AVENUE M8 | | QUARTZ HILL | CA | 93536-2939 |
| PEREZ EFRAIN / MARTINEZ SUSANA | 11040 LORNE ST APT 230 | | SUN VALLEY | CA | 91352-3976 |
| PEREZ RENE / GUTIERREZ RUTH | 3142 CAMINO HERMANOS | | LANCASTER | CA | 93536-2844 |
| PERKINS ERNEST E / PERKINS ERNESTINA E | 23400 W AVENUE D15 | | LANCASTER | CA | 93536-9113 |
| PERKINS ERNEST E / PERKINS ERNESTINA E | 23500 W AVENUE D15 | | LANCASTER | CA | 93536-9043 |
| PETE HAMES | 40892 COBBLESTONE CT | | PALMDALE | CA | 93551 |
| PETER EVANGELISTA | 1226 EL MONTE DR | | SIMI VALLEY | CA | 93065-4228 |
| PETER GARCIA | PO BOX 4184 | | EL MONTE | CA | 91734-4184 |
| PETER LOPEZ | 12201 EL MIRAGE ST | | BORON | CA | 93516-1314 |
| PETER MASLANIK | 7238 W AVENUE J | | QUARTZ HILL | CA | 93536-7625 |
| PETER SCHANK | 2769 JEFFERIES ST | | ROSAMOND | CA | 93560-6544 |
| PETER SMITH | PO BOX 8395 | | LANCASTER | CA | 93539-8395 |
| PETERS MICHAEL R / PETERS BEKCY L | 50107 40TH ST W | | LANCASTER | CA | 93536-9505 |
| PETERSEN PROPERTIES | 7155 VALJEAN AVE | | VAN NUYS | CA | 91406-3917 |
| PETERSON | 1534 CREEK MILL TRCE | | LAWRENCEVILLE | GA | 30044-6180 |
| PETRIE STANLEY A / PETRIE KATHLEEN M | 31220 106TH ST E | | LITTLEROCK | CA | 93543-3641 |
| PETRINELLA PLUMMER | PO BOX 6194 | | LANCASTER | CA | 93539-6194 |
| PETTIT MICHAEL H / PETTIT KERRY A | 7709 W AVENUE J | | LANCASTER | CA | 93536-7608 |
| PHIL SHIPLEY | PO BOX 634 | | PEARBLOSSOM | CA | 93553-0634 |
| PHILIP ARKLIN | PO BOX 900697 | | PALMDALE | CA | 93590-0697 |
| PHILIP BUCKNOR | 5374 RUSS PL | | PALMDALE | CA | 93552-3875 |
| PHILIP BUCKNOR | 5374 RUSS PL | | PALMDALE | CA | 93552-3875 |
| PHILIP SCHULTZ | 8051 W AVENUE B10 | | LANCASTER | CA | 93536-9515 |
| PHILLIP JOHN | 4591 HEATH CIR | | ROHNERT PARK | CA | 94928-5615 |
| PHILLIP KRUEGER | PO BOX 3005 | | QUARTZ HILL | CA | 93586-0005 |
| PHILLIP LEWIS | 28400 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3420 |
| PHOLSAN JOTIKASTHIRA | 27411 ANNETTE JO CIR | | SAUGUS | CA | 91350-1704 |
| PHYLLIS GARLIN | 500 S OAK PARK ST | | VISALIA | CA | 93277-2353 |
| PHYLLIS GOLDIN | 824 E PALMDALE AVE | | ORANGE | CA | 92865-4523 |
| PI SU | 9927 OLIVE CT | | TEMPLE CITY | CA | 91780-3200 |
| PIATT TODD R | 45651 160TH ST W | | LANCASTER | CA | 93536-9039 |
| PILAR VASQUEZ | 45100 BEVINGTON AVE | | LANCASTER | CA | 93535 |
| POISSON MATTHEW R / POISSON JENNY M | 575 N KNIGHT DR | | EDWARDS | CA | 93523-2736 |
| POLITO KEVIN C | 25671 SMOKETREE LN | | VALENCIA | CA | 91381-0620 |
| POLLY SHIU | 586 VIENNA ST STE 3 | | SAN FRANCISCO | CA | 94112-2818 |
| POMEROY VANCE / POMEROY KIMBERLEY A | 29319 121ST ST E | | LITTLEROCK | CA | 93543-4204 |
| POMPEY RAYMOND J / POMPEY FAMILY | 45807 20TH ST E | | LANCASTER | CA | 93535-1425 |
| POMPOSO SARAH | 18325 W AVENUE B | | LANCASTER | CA | 93536-8917 |
| PONCE EMELIA | 23537 W AVENUE C8 | | LANCASTER | CA | 93536-9274 |
| PONCEDELEON MICHAEL A | PONCEDELEON KATHY M | 15533 RICHVALE DR | WHITTIER | CA | 90604-3244 |
| POOI KAN | 3232 NEWMARK DR | | MIAMISBURG | OH | 45342-5421 |
| PORTILLO BLANCA | 18310 E AVENUE S | | LLANO | CA | 93544 |
| POTTER DANIEL R / POTTER JANICE M | 7828 W AVENUE H | | LANCASTER | CA | 93536-8108 |
| PQ TECHNOLOGIES INC | 47205 60TH ST E | | LANCASTER | CA | 93535-7827 |
| PQ TECHNOLOGIES INC | 47205 60TH ST E | | LANCASTER | CA | 93535-7827 |
| PRATEEK GOEL | 330 W 11TH ST APT 607 | | LOS ANGELES | CA | 90015-2233 |
| PRELEWICZ KRISY L | 46330 72ND ST W | | LANCASTER | CA | 93536-8115 |
| PRESTON SHULTS | PO BOX 422 | | ROSAMOND | CA | 93560-0422 |
| PRESTON SHULTS | PO BOX 422 | | ROSAMOND | CA | 93560-0422 |
| PRICE CYNTHIA D | 3923 BEACON LN | | PALMDALE | CA | 93551 |
| PRIDE PET | PO BOX 1055 | | PACIFIC PLSDS | CA | 90272-1055 |
| PRIME 40 WEST LP | 7116 VALJEAN AVE | | VAN NUYS | CA | 91406-3901 |
| PRIMO TAPIA | 1101 71ST ST W | | ROSAMOND | CA | 93560-7032 |
| PRINCE JERRY D / PRINCE JACQUELINE | 11015 BUTTERFIELD STAGE RD | | LITTLEROCK | CA | 93543-3724 |
| PULTE HOME CORP | 27220 TURNBERRY LN | | VALENCIA | CA | 91355-1018 |
| PUPPY SHOP INC | 39487 DESERT LILLY CT | | PALMDALE | CA | 93551 |
| PURSLEY D D ; K C FAMILY TRUST | PO BOX 4735 | | LANCASTER | CA | 93539-4735 |
| PYUNG WHANG | 23231 MALTBY PL | | HARBOR CITY | CA | 90710-1132 |
| QUALITY LENDING ET AL | 3815 S WEST TEMPLE | | SALT LAKE CITY | UT | 84115-4412 |
| QUANG BANH | 7850 SLATER AVE SPC 115 | | HUNTINGTON BEACH | CA | 92647-6763 |
| QUARTZ HILL CENTER LLC | 24832 PICO CANYON RD | | STEVENSON RANCH | CA | 91381-1700 |
| QUESADA RODRIGO / QUESADA ISABLE | 157 E AVENUE F | | LANCASTER | CA | 93535-6411 |
| QUILICOT KENNETH D | 3629 W AVENUE K10 | | LANCASTER | CA | 93536-4928 |
| QUILLEN J L ; K L LIVING TRUST | 18450 W AVENUE D | | LANCASTER | CA | 93536-9266 |
| QUINTERO ESMERALDA | 46411 70TH ST E | | LANCASTER | CA | 93535-7833 |
| QUIROGA JAMES | 5606 E AVENUE K8 | | LANCASTER | CA | 93535-8606 |
| QUIROZ JAIME | 5033 E AVENUE K8 | | LANCASTER | CA | 93535-8602 |
| QUYEN TRAN | 237 S BEACH BLVD | | ANAHEIM | CA | 92804-1815 |
| QWEST ENGINEERING INC | 465 W 1ST ST | | TUSTIN | CA | 92780-3002 |

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| R AND V NULL FAMILY LTD PTNSHP | 1160 5TH STREET LOOP W | | TILLAMOOK | OR | 97141-9488 |
| R BROTHERS | PO BOX 1346 | | ROSAMOND | CA | 93560-1346 |
| R DE LA ROSA | 9580 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7505 |
| R JENKINS | 6465 SWEETSER RD | | WILLOW SPRINGS | CA | 93560-6355 |
| R RANCH | 9440 E AVENUE I | | LANCASTER | CA | 93535-8400 |
| R VARTANIAN | PO BOX 2600 | | ROSAMOND | CA | 93560-2600 |
| RABII INVESTMENTS LLC | 4 VIA ERMITAS | | RANCHO SANTA MARGARITA | CA | 92688-2968 |
| RACHEL BISSON | 38 KELLY CIR | | SIDNEY | ME | 04330-2509 |
| RACHEL FINES | 43325 VINEYARD DR | | LANCASTER | CA | 93535 |
| RACHEL MANNING | 24451 TAMARISK AVE | | BORON | CA | 93516-1351 |
| RACHEL QUIGLEY | 43161 8TH ST E | | LANCASTER | CA | 93535-4739 |
| RACHEL WILLIAMSON | 440 W HILLSDALE ST | | INGLEWOOD | CA | 90302-1124 |
| RAFAEL CANTE | 41506 154TH ST E | | LAKE LA | CA | 93535-7031 |
| RAFAEL MEDINA | 18122 E AVENUE O | | PALMDALE | CA | 93591-3804 |
| RAFAEL NOVOA | 5594 SUE AVE | | ROSAMOND | CA | 93560-6986 |
| RAFAEL ROSALES | 38642 KYLE PL | | PALMDALE | CA | 93551 |
| RAFAEL TORRES | PO BOX 6922 | | LANCASTER | CA | 93539-6922 |
| RAJ PRADEEP / RAJ MARY J | 37146 THE GRVS | | PALMDALE | CA | 93551-6232 |
| RAKEIA PRATT | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| RALPH DE LANO | 2860 100TH ST W | | ROSAMOND | CA | 93560-7076 |
| RALPH DRAEGER | 9531 WARBURTON DR | | HUNTINGTN BCH | CA | 92646-3629 |
| RALPH HEWITT | 124 E EL CAMINO ST | | SANTA MARIA | CA | 93454-4106 |
| RALPH LA PREZIOSA | PO BOX 22 | | LAKE HUGHES | CA | 93532-0022 |
| RALPH LA PREZIOSA | PO BOX 22 | | LAKE HUGHES | CA | 93532-0022 |
| RALPH MARTIN | PO BOX 384 | | PEARBLOSSOM | CA | 93553-0384 |
| RAMEY TODD | 9503 NORTHSIDE DR | | LEONA VALLEY | CA | 93551-7108 |
| RAMIREZ CLAUDIA M | 16644 RINALDI ST | | GRANADA HILLS | CA | 91344-3631 |
| RAMIREZ VICTOR H | 44022 42ND ST W | | LANCASTER | CA | 93536-5869 |
| RAMIRO DIAZ | 3815 SW TEMPLE | | SALT LAKE CITY | UT | 84115 |
| RAMIRO GONZALEZ | 20618 COHASSET ST | | CANOGA PARK | CA | 91306-2807 |
| RAMON | 2081 60TH ST W | | ROSAMOND | CA | 93560-6561 |
| RAMON HARO | 24452 TAMARISK AVE | | BORON | CA | 93516-1358 |
| RAMON RAMOS | 12567 YUBA RD | | PHELAN | CA | 92371-7836 |
| RAMOS FIDENCIO / RAMOS ROSA D | 626 E AVENUE G | | LANCASTER | CA | 93535-5901 |
| RAMOS SERGIO / RAMOS ESTHER M | 4657 E AVENUE G | | LANCASTER | CA | 93535-7708 |
| RANATUNGE BANDULA D / RANATUNGE CHANDHI | 4508 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| RANDALL A STEVENS JR LIVING TRUST | PO BOX 781 | | ROSAMOND | CA | 93560-0781 |
| RANDALL BLAYNEY | 17259 COMMUNITY ST | | NORTHRIDGE | CA | 91325-4055 |
| RANDALL STERBA | 27720 MANSFIELD CT | | VALENCIA | CA | 91354-1623 |
| RANDOLF SALAZAR | 37741 MENTOR CT | | PALMDALE | CA | 93550-2587 |
| RANDY ANDREONI | 48751 245TH ST W | | LANCASTER | CA | 93536-9121 |
| RANDY KISTLER | 5216 CAMPO RD | | WOODLAND HILLS | CA | 91364-1927 |
| RANDY SPEARS | 24284 SAGE AVE | | BORON | CA | 93516-1334 |
| RANDY WIDMER | PO BOX 1670 | | ROSAMOND | CA | 93560-1670 |
| RANJAN GORADIA | 32063 PACIFICA DR | | RANCHO PALOS VERDES | CA | 90275-5763 |
| RAQUEL MUNOZ | 9755 BUCKHORN AVE | | ROSAMOND | CA | 93560-7299 |
| RAUL ALICER | 1452 3RD ST | | SIMI VALLEY | CA | 93065-3206 |
| RAUL BAUTISTA | 24127 JOSHUA AVE | | BORON | CA | 93516-1320 |
| RAUL MARTINEZ | 6607 ALMOND VALLEY WAY | | LANCASTER | CA | 93536-1230 |
| RAUL TORRES | 8230 REDBUSH LN | | PANORAMA CITY | CA | 91402-5317 |
| RAWLEY DAVIS | 3255 50TH STREET WEST | | ROSAMOND | CA | 93560 |
| RAY CROFT | 2608 60TH ST W | | ROSAMOND | CA | 93560-6988 |
| RAY CROFT | 2608 60TH ST W | | ROSAMOND | CA | 93560-6988 |
| RAY MC GOUGH | PO BOX 1628 | | ROSAMOND | CA | 93560-1628 |
| RAY MORALES | 14348 W AVENUE D # 84 | | LANCASTER | CA | 93536 |
| RAYMOND CHAMPAGNE | 7989 RENEE CIR | | BENTON | AR | 72019-9551 |
| RAYMOND CHINN | 2921 MCCALL AVE | | BAKERSFIELD | CA | 93304-6227 |
| RAYMOND CUMMINS | 4217 N DILKON RD | | GOLDEN VALLEY | AZ | 86413-8335 |
| RAYMOND JOHNSON | 623 MELBA LN | | BAKERSFIELD | CA | 93307-1653 |
| RAYMOND NODA | PO BOX 1506 | | MONROVIA | CA | 91017-5506 |
| RAYMOND POMPEY | 45807 20TH ST E | | LANCASTER | CA | 93535-1425 |
| RAYMOND STEAD | 6171 GOBI ST | | ROSAMOND | CA | 93560 |
| RAYMOND STEWART | 24969 MULHOLLAND HWY | | CALABASAS | CA | 91302-2366 |
| RAYMUNDO CORTEZ | 6654 W AVENUE L4 | | LANCASTER | CA | 93536-4560 |
| RAYMUNDO RODRIGUEZ | 3165 SANDSTONE CT | | PALMDALE | CA | 93551-1020 |
| RAY-SHE ESTATE TRUST | PO BOX 711 | | ROSAMOND | CA | 93560-0711 |
| RCN3 TRUST | 1101 SALISBURY RD | | LA CANADA | CA | 91011-2345 |
| RE MAP LLC | 3487 SAN PABLO AVE | | SAN JOSE | CA | 95127-1147 |
| REBA JORDAN | PO BOX 756 | | BORON | CA | 93596-0756 |
| REBECA FUENTES | 355 S HIDDEN GROVE LN | | ANAHEIM | CA | 92807 |
| REBECCA BROWN | 1658 FALL CT | | ROSAMOND | CA | 93560-6547 |
| REBECCA KOSICK | PO BOX 1162 | | ROSAMOND | CA | 93560-1162 |
| REBECCA MARKS | PO BOX 1085 | | PEARBLOSSOM | CA | 93553-1085 |
| REBECCA MC GOUGH | 1865 60TH ST W | | ROSAMOND | CA | 93560-7370 |
| REBECCA STEWART | 5817 E AVENUE E | | LANCASTER | CA | 93535-7846 |
| REEVES JEROLD K; SYLVIA D | REEVES FAMILY | 6124 W AVENUE G | LANCASTER | CA | 93536-8507 |
| REHAUME LARRY M / REHAUME CINDY E | 3357 TWINCREEK CT | | PALMDALE | CA | 93551-1080 |
| REMIGLIA SCAVO | 19550 AVENUE OF THE OAKS | | NEWHALL | CA | 91321-1307 |
| RENAE DAVIS | 24374 SAGE AVE | | BORON | CA | 93516-1336 |
| RENE NAVARRO | 5008 SUNBURST DR | | PALMDALE | CA | 93552-5300 |
| RENNEL FARR | 851 65TH ST W | | ROSAMOND | CA | 93560-7035 |
| RESCAR INDUSTRIES INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| RESERVE SYSTEMS INC | 4040 MANLY RD | | ROSAMOND | CA | 93560-6930 |
| REUSCHEL JON M | 12333 E AVENUE H | | LANCASTER | CA | 93535-8724 |
| REUTER JAMES ; CORALEE H / REUTER FAMILY | 7362 W AVENUE G | | LANCASTER | CA | 93536-8618 |
| REVA AIKENS | 3658 W 59TH PL | | LOS ANGELES | CA | 90043-2904 |
| REVA MUNZ | 12701 LANCASTER RD | | LANCASTER | CA | 93536-9014 |

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| REX CADUNGOG | 673 FISHER CIR | | FOLSOM | CA | 95630-9541 |
| REX THOMPSON | 6294 SHORELAND CIR | | BUFORD | GA | 30518-1551 |
| REYES ESTEBAN G / BONILLA JULIO C | 45819 65TH ST E | | LANCASTER | CA | 93535-8300 |
| REYES MARLON J | 48205 60TH ST E | | LANCASTER | CA | 93535-7824 |
| REYES MARTELL | 12954 PROFITT ST | | NORTH EDWARDS | CA | 93523-3445 |
| REYNALDO CHAVEZ | 29857 104TH ST E | | JUNIPER HILLS | CA | 93543-3616 |
| REYNOLDS JULIA B | 43044 FLAG ST | | LANCASTER | CA | 93536-4651 |
| REYNOSO JOSE F / RAMOS MARIA R | 4520 CINNABAR AVE | | PALMDALE | CA | 93551-1854 |
| RHAMIE CHONG | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| RHETTA DAVIS | 24856 APPIAN WAY | | MURRIETA | CA | 92562-5734 |
| RHODA BAILEY | 2315 E PALMDALE BLVD # GC27 | | PALMDALE | CA | 93550-4959 |
| RHONALD BURGESS | PO BOX 2145 | | ROSAMOND | CA | 93560-2145 |
| RHONDA MUELLER | 2136 E BROWER ST | | SIMI VALLEY | CA | 93065-2403 |
| RIAHI MANDANA | 10535 WILSHIRE BLVD APT 1606 | | LOS ANGELES | CA | 90024-4565 |
| RICARDO MARTINEZ | 4001 E AVENUE E | | LANCASTER | CA | 93535-7720 |
| RICARDO MARTINEZ | 4001 E AVENUE E | | LANCASTER | CA | 93535-7720 |
| RICH MAN PROPERTY GROUP TRUST | 1752 E AVENUE J STE 105 | | LANCASTER | CA | 93535-4474 |
| RICHARD ATILANO | 7051 WHITTIER AVE APT C | | WHITTIER | CA | 90602-1149 |
| RICHARD BOLIN | 9250 NW MOUNTAIN VIEW ACRES RD | | PRINEVILLE | OR | 97754-9267 |
| RICHARD CASE | PO BOX 1101 | | ROSAMOND | CA | 93560-1101 |
| RICHARD COLEMAN | 727 SUBURBAN DR | | BRIGHAM CITY | UT | 84302-2886 |
| RICHARD DEARBORN | 2601 100TH ST W | | ROSAMOND | CA | 93560-7077 |
| RICHARD DEARBORN | 2601 100TH ST W | | ROSAMOND | CA | 93560-7077 |
| RICHARD DIXON | PO BOX 902111 | | PALMDALE | CA | 93590-2111 |
| RICHARD DOUGLASS | PO BOX 1744 | | ROSAMOND | CA | 93560-1744 |
| RICHARD DOWDY | 12221 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| RICHARD ELLIS | 4360 W AVENUE B 8 | | LANCASTER | CA | 93584 |
| RICHARD ELLIS | 35581 165TH STREET EAST | | LLANO | CA | 93544 |
| RICHARD FELTER | PO BOX 1030 | | ROSAMOND | CA | 93560-1030 |
| RICHARD HARPER | 945 E BRETT ST | | INGLEWOOD | CA | 90302-1413 |
| RICHARD HEFLIN | 5109 60TH ST W | | ROSAMOND | CA | 93560-6551 |
| RICHARD HOPKINS | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| RICHARD HORVATIN | 6520 GASKELL RD | | ROSAMOND | CA | 93560-7131 |
| RICHARD HSU | 26 SANTA CRUZ | | ROLLING HILLS ESTATES | CA | 90274-5402 |
| RICHARD KESSENER | 524 E PALM AVE | | EL SEGUNDO | CA | 90245-3014 |
| RICHARD KOSICK | PO BOX 1162 | | ROSAMOND | CA | 93560-1162 |
| RICHARD LAUREYS | 8349 MOJAVE AVE | | ROSAMOND | CA | 93560-7188 |
| RICHARD LESLEY A / ALLEN LATRICE M | 44613 31ST ST W | | LANCASTER | CA | 93536-8367 |
| RICHARD MICCOLIS | 19538 LOS ALIMOS ST | | NORTHRIDGE | CA | 91326-2221 |
| RICHARD MILLIGAN | 6265 105TH ST W | | ROSAMOND | CA | 93560-7515 |
| RICHARD MILLS | 47044 5TH ST W | | LANCASTER | CA | 93534-7501 |
| RICHARD MINER | 9678 DAWN RD | | ROSAMOND | CA | 93560-7503 |
| RICHARD MITCHELL | 45740 95TH ST W | | LANCASTER | CA | 93536-8004 |
| RICHARD MORGAN | PO BOX 1090 | | ROSAMOND | CA | 93560-1090 |
| RICHARD MOSS | 1049 CINNAMON RANCH RD | | BISHOP | CA | 93514-9481 |
| RICHARD ODELL | PO BOX 74 | | VALYERMO | CA | 93563-0074 |
| RICHARD OLIVER | 12428 EL MIRAGE ST | | BORON | CA | 93516-1319 |
| RICHARD PARE | 2935 DAVENPORT ST | | ROSAMOND | CA | 93560-7513 |
| RICHARD SIKRA | PO BOX 6184 | | THOUSAND OAKS | CA | 91359-6184 |
| RICHARD SKAGGS | 2156 ELANITA DR | | SAN PEDRO | CA | 90732-4434 |
| RICHARD SMITH | 10735 LEONA AVE | | LEONA VALLEY | CA | 93551-7304 |
| RICHARD SULZ | 4066 WEST AVENUE J6 | | LANCASTER | CA | 93536-6833 |
| RICHARD TURNBLAD | 24856 APPIAN WAY | | MURRIETA | CA | 92562-5734 |
| RICHARD WHEATON | 809 W NEWGROVE ST | | LANCASTER | CA | 93534-3009 |
| RICHARD WHITEHOUSE | 30401 104TH ST E | | LITTLEROCK | CA | 93543-3613 |
| RICHARD WILLIAMS | PO BOX 5302 | | LANCASTER | CA | 93539-5302 |
| RICHARDS WILLIAM J | 50665 110TH ST W | | LANCASTER | CA | 93536-9412 |
| RICHLAND ANTELOPE VALLEY | 1925 CENTURY PARK E STE 1160 | | LOS ANGELES | CA | 90067-2712 |
| RICHMOND AMERCIAN HOMES OF | 5171 CALIFORNIA AVE STE 120 | | IRVINE | CA | 92617-3036 |
| RICHMOND RICHARD M / RICHMOND WILMA M | 12841 PALLET MESA RD | | PEARBLOSSOM | CA | 93553-3473 |
| RICHMOND TRUST / RICHMOND MANUEL | 42936 FAIRLEE DR | | LANCASTER | CA | 93536-4636 |
| RICK CHOW | 1121 W EDGEWARE RD | | LOS ANGELES | CA | 90026-5168 |
| RICK HARRIS | PO BOX 1497 | | ROSAMOND | CA | 93560-1497 |
| RICKIE SCHWEBKE | PO BOX 4366 | | LANCASTER | CA | 93539-4366 |
| RICKY BECK | 24172 JOSHUA AVE | | BORON | CA | 93516-1321 |
| RICKY STUARD | 5717 CHARAN RD | | ROSAMOND | CA | 93560-7126 |
| RICKY TORRES | 3334 78TH ST W | | ROSAMOND | CA | 93560-6995 |
| RIERSON ROBERT R / RIERSON JUANITA | 10317 E AVENUE J | | LANCASTER | CA | 93535-8504 |
| RIFFENBURG LOGAN R | RIFFENBURG VANESSA G | 22210 E PALMDALE BLVD | LAKE LOS ANGELES | CA | 93591-4704 |
| RIGBY LOLA / ESTEY LOLA R | 6763 E AVENUE H | | LANCASTER | CA | 93535-7849 |
| RILEY AUSTIN | 4828 LOOP CENTRAL DR | | HOUSTON | TX | 77081-2212 |
| RILEY THOMAS M / RILEY DENISE M | 4661 E AVENUE F | | LANCASTER | CA | 93535-7710 |
| RION HUFFORD | PO BOX 1815 | | ROSAMOND | CA | 93560-1815 |
| RITA ACOSTA | 2233 60TH ST W | | ROSAMOND | CA | 93560-6507 |
| RITA ALVAREZ | 5246 ELK CRK | | SAN ANTONIO | TX | 78251-3545 |
| RITA GIBSON | 43061 FLAG ST | | LANCASTER | CA | 93536-4651 |
| RITA TAVERNESE | 5641 ABRAHAM AVE | | WESTMINSTER | CA | 92683-2803 |
| RITTER MARK S / RITTER DANA | 51201 90TH ST W | | LANCASTER | CA | 93536-9404 |
| RIVIERA PROPERTIES LLC | 13428 MAXELLA AVE # 606 | | MARINA DL REY | CA | 90292-5620 |
| RMS RESIDENTIAL PROPERTIES LLC | 8742 LUCENT BLVD STE 300 | | HIGHLANDS RANCH | CO | 80129-2386 |
| ROBBIE LIENHART | 4450 CALIFORNIA AVE STE 52 | | BAKERSFIELD | CA | 93309-1152 |
| ROBBIN HOUCHEN | 19800 GASKELL RD | | ROSAMOND | CA | 93560-7245 |
| ROBBIN HOUCHEN | 19800 GASKELL RD | | ROSAMOND | CA | 93560-7245 |
| ROBBINS RICHARD SR / ROBBINS DORTHY | 47229 DIVISION ST | | LANCASTER | CA | 93535-6405 |
| ROBBY ASHPAUGH | 2797 MAGNOLIA ST | | CAMARILLO | CA | 93012-8044 |
| ROBBY HARGRAVE | 38465 3RD ST E STE P | | PALMDALE | CA | 93550-4501 |
| ROBERSON | 3003 8TH AVE | | LOS ANGELES | CA | 90018-3304 |

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| ROBERT A. DAVIS | 2399 WINDWARD CIR | | WESTLAKE VLG | CA | 91361-3438 |
| ROBERT ALBERT | 21601 ADLER DR | | CALIF CITY | CA | 93505-1403 |
| ROBERT AUSTIN | PO BOX 535 | | PEARBLOSSOM | CA | 93553-0535 |
| ROBERT BEECHLY | PO BOX 155 | | ROSAMOND | CA | 93560-0155 |
| ROBERT BELL | 1541 STUART ST | | CAMBRIA | CA | 93428-5921 |
| ROBERT BENTON | 24264 CHAPARRAL AVE | | BORON | CA | 93516-1306 |
| ROBERT BETSON | 5093 61ST ST W | | ROSAMOND | CA | 93560-6463 |
| ROBERT CHANEY | PO BOX 432 | | MOJAVE | CA | 93502-0432 |
| ROBERT CHERLAND | 6217 SHADOW HILLS DR | | LANCASTER | CA | 93536-3715 |
| ROBERT DENNIS | 43770 15TH ST W STE 125 | | LANCASTER | CA | 93534-5200 |
| ROBERT DONOVAN | 6169 SWEETSER RD | | ROSAMOND | CA | 93560-6573 |
| ROBERT EKHOLM | PO BOX 4 | | VALYERMO | CA | 93563-0004 |
| ROBERT ELIA | PO BOX 1712 | | ANGEL FIRE | NM | 87710-1712 |
| ROBERT ESGUERRA | 20405 JANZER CT | | SANTA CLARITA | CA | 91350-8512 |
| ROBERT FENNELL | 8408 SWEETSER RD | | ROSAMOND | CA | 93560-7096 |
| ROBERT FORSHIER | 12715 MURPHYS LN | | PEARBLOSSOM | CA | 93553-3445 |
| ROBERT G. DAVIS | 43838 90TH ST W | | LANCASTER | CA | 93536-7701 |
| ROBERT GEIGER | 7963 ROLAND AVE | | ROSAMOND | CA | 93560-7057 |
| ROBERT GIBSON | PO BOX 115 | | VALYERMO | CA | 93563-0115 |
| ROBERT GRANT | 37147 186TH ST E | | LLANO | CA | 93544-1414 |
| ROBERT GRATER | PO BOX 822 | | POWELL | WY | 82435-0822 |
| ROBERT GREER | PO BOX 2752 | | LANCASTER | CA | 93539-2752 |
| ROBERT HARDY | 1000 TECHNOLOGY DR MS 314 | | O FALLON | MO | 63368-2239 |
| ROBERT HARMON | 5771 CHARAN RD | | ROSAMOND | CA | 93560-7126 |
| ROBERT HERBERT | 24400 JOSHUA AVE | | BORON | CA | 93516-1327 |
| ROBERT HOUSE | PO BOX 1874 | | ROSAMOND | CA | 93560-1874 |
| ROBERT JOHNSTON | PO BOX 2125 | | LANCASTER | CA | 93539-2125 |
| ROBERT JONES | 9440 E AVENUE I | | LANCASTER | CA | 93535-8400 |
| ROBERT KAMMER | 11802 E AVENUE D | | LANCASTER | CA | 93535-8019 |
| ROBERT KEITH DYAS | 1975 KEITH LANE | | ROSAMOND | CA | 93560 |
| ROBERT KEITH DYAS | 1875 KEITH LANE | | ROSAMOND | CA | 93560 |
| ROBERT KING | PO BOX 2120 | | ROSAMOND | CA | 93560-2120 |
| ROBERT LARGE | PO BOX 949 | | LAKE HUGHES | CA | 93532-0949 |
| ROBERT LEACH | 24232 JUNIPER AVE | | BORON | CA | 93516-1329 |
| ROBERT LEE | 2743 28TH ST W | | ROSAMOND | CA | 93560-6436 |
| ROBERT LEWIS | PO BOX 1180 | | LITTLEROCK | CA | 93543-1180 |
| ROBERT LIPE | 5264 MOHAVE DR | | SIMI VALLEY | CA | 93063-2008 |
| ROBERT MACDONALD | 43031 40TH ST E | | LANCASTER | CA | 93535-8103 |
| ROBERT MARTINEZ | 775 65TH ST W | | ROSAMOND | CA | 93560-7224 |
| ROBERT MC KENNA | 2364 LUPINE TRL | | BULLHEAD CITY | AZ | 86442-8760 |
| ROBERT MELVIN | 38901 230TH ST E | | PALMDALE | CA | 93591-4706 |
| ROBERT MORRIS | 2513 100TH ST W # 3 | | ROSAMOND | CA | 93560-7010 |
| ROBERT MUNOZ | 38756 LILACVIEW AVE | | PALMDALE | CA | 93550-4254 |
| ROBERT NELSON | 4050 MANLY RD | | ROSAMOND | CA | 93560-6930 |
| ROBERT PENA | 15229 LAKESIDE ST | | SYLMAR | CA | 91342-3713 |
| ROBERT PIKE | 6000 140TH STREET WEST | | ROSAMOND | CA | 93560 |
| ROBERT PRUITT | 1701 JUDY AVE | | BAKERSFIELD | CA | 93312 |
| ROBERT REED | PO BOX 901754 | | PALMDALE | CA | 93590-1754 |
| ROBERT ROOS | PO BOX 1938 | | ROSAMOND | CA | 93560-1938 |
| ROBERT SANKEY | 9008 HIERBA RD | | AGUA DULCE | CA | 91390-4560 |
| ROBERT SCHEIRE | 5527 105TH ST W | | WILLOW SPRINGS | CA | 93560-7500 |
| ROBERT SHEPHARD | PO BOX 2504 | | ROSAMOND | CA | 93560-2504 |
| ROBERT SLADE | 6225 HOLIDAY AVE | | ROSAMOND | CA | 93560-6518 |
| ROBERT SLOCUM | PO BOX 1535 | | LANCASTER | CA | 93539-1535 |
| ROBERT SMITH | PO BOX 945 | | ROSAMOND | CA | 93560-0945 |
| ROBERT SMITH | 309 N BALDY VISTA AVE | | GLENDORA | CA | 91741-6606 |
| ROBERT SMITH | PO BOX 945 | | ROSAMOND | CA | 93560-0945 |
| ROBERT SORENSEN | 1852 MARY RD | | ACTON | CA | 93510-1493 |
| ROBERT SUTER | 751 HIGHWAY AT | | VILLA RIDGE | MO | 63089-2119 |
| ROBERT SWICK | 13612 BRADLEY AVE | | SYLMAR | CA | 91342-1104 |
| ROBERT TALBOT | 9 RUSTLER LN | | ROLLING HILLS ESTATES | CA | 90274-1543 |
| ROBERT THORNTON | PO BOX 155 | | BORON | CA | 93596-0155 |
| ROBERT WIESE | 15216 BURBANK BLVD STE 300 | | SHERMAN OAKS | CA | 91411-3561 |
| ROBERT WOODS | 11565 S ARHARTON DR | | IDAHO FALLS | ID | 83404 |
| ROBERT ZAVALA | 6781 GASKELL RD | | ROSAMOND | CA | 93560-7132 |
| ROBERTA ENGLISH | 24169 JOSHUA AVE | | BORON | CA | 93516-1320 |
| ROBERTA FRANCO | 12204 ALBERTA DR | | CULVER CITY | CA | 90230-5906 |
| ROBERTA HARGRAVE | PO BOX 1675 | | ROSAMOND | CA | 93560-1675 |
| ROBERTO ALVAREZ | 5246 ELK CRK | | SAN ANTONIO | TX | 78251-3545 |
| ROBERTO CASTRO | 4824 W 120TH ST | | HAWTHORNE | CA | 90250-2725 |
| ROBERTO CO | 910 EUCLID AVE APT 82 | | NATIONAL CITY | CA | 91950-3839 |
| ROBERTO MORENO | 6523 GAVIOTA AVE | | VAN NUYS | CA | 91406-6409 |
| ROBIN BAKER | GENERAL DELIVERY | | LANCASTER | CA | 93539-9999 |
| ROBIN FUTCH | PO BOX 558 | | LAKE HUGHES | CA | 93532-0558 |
| ROBIN GAGNON | PO BOX 2308 | | ROSAMOND | CA | 93560-2308 |
| ROBIN GREEN | 42450 12TH ST W | | LANCASTER | CA | 93534-7082 |
| ROBIN RUIZ | 99 WYOMING ST | | BOULDER CITY | NV | 89005-2803 |
| ROBIN RUIZ | 99 WYOMING ST | | BOULDER CITY | NV | 89005-2803 |
| ROBIN WALTON | 24242 CHAPARRAL AVE | | BORON | CA | 93516-1306 |
| ROBINSON LUCIAN; BARBARA | ROBINSON FAMILY | 35800 106TH ST E | LITTLEROCK | CA | 93543-2800 |
| ROBLES RICHARD E | 40812 GRANITE ST | | PALMDALE | CA | 93551-1806 |
| ROBYN ANDRADE | 47522 80TH ST W | | LANCASTER | CA | 93536-8637 |
| ROCHELLE ROBERSON | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| ROD HERDERSON | 405 W LANCASTER BLVD | | LANCASTER | CA | 93534-2539 |
| RODAH YOUNG | PO BOX 1468 | | ROSAMOND | CA | 93560-1468 |
| RODNEY ELLIS | 15444 SPUNKY CANYON RD # 847 | | AGUA DULCE | CA | 91390-4902 |
| RODNEY KIRSCH | 6175 WILLOW AVE | | ROSAMOND | CA | 93560-6524 |

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|---|---|---|---|---|
| RODNEY METTER | 3151 E AVENUE H | LANCASTER | CA | 93535-1607 |
| RODNEY SAKEMILLER | 12826 MURPHYS LN | PEARBLOSSOM | CA | 93553-3442 |
| RODNEY STILLION | 36663 OLIVER LN | PALMDALE | CA | 93551-7945 |
| RODOLFO ESCOBAR | 4091 ELWOOD AVE | PALMDALE | CA | 93552-3615 |
| RODOLFO ESCOBAR | 5726 OPAL AVE | PALMDALE | CA | 93552-3943 |
| RODOLFO RAMIREZ | 630 N VERNON AVE | AZUSA | CA | 91702-2835 |
| RODRIGO MEZA | 2719 57TH ST W | ROSAMOND | CA | 93560-6923 |
| RODRIGO SANCHEZ | 6727 PISTACHIO PL | PALMDALE | CA | 93551-1930 |
| RODRIGUEZ ARNALDO | 49050 130TH ST W | LANCASTER | CA | 93536-9364 |
| RODRIGUEZ ELENA | 47190 110TH ST W | LANCASTER | CA | 93536-8633 |
| RODRIGUEZ JOSE J | 47400 120TH ST E | LANCASTER | CA | 93535-8008 |
| RODRIGUEZ JUAN C / RODRIGUEZ GABRIELA | 29143 127TH ST E | PEARBLOSSOM | CA | 93553-3444 |
| ROGELIO TORRES | 24312 JUNIPER AVE | BORON | CA | 93516-1364 |
| ROGER BASS | 445 HAMILTON AVE FL 8 | WHITE PLAINS | NY | 10601-1807 |
| ROGER CHRISTIANSEN | PO BOX 416 | ROSAMOND | CA | 93560-0416 |
| ROGER DAMRON | PO BOX 1951 | LANCASTER | CA | 93539-1951 |
| ROGER DAMRON | PO BOX 1951 | LANCASTER | CA | 93539-1951 |
| ROGER GORSKI | 3832 MINERVA AVE | LOS ANGELES | CA | 90066-4023 |
| ROGER KING | 6219 WILLOW AVE | ROSAMOND | CA | 93560-7234 |
| ROGER SCHAEFER | 4540 W AVENUE M8 | QUARTZ HILL | CA | 93536-2939 |
| ROGER SIDES | 49540 55TH ST W | LANCASTER | CA | 93536-9511 |
| ROGERS EDWIN C / ROGERS BARBARA B | 19620 W AVENUE A | LANCASTER | CA | 93536-8908 |
| ROGERS MARVIN A / ROGERS JERRY H | 11819 JUNIPER HILLS RD | LITTLEROCK | CA | 93543-4207 |
| ROLAND VALENTINE | PO BOX 1851 | ROSAMOND | CA | 93560-1851 |
| ROLANDO DOLATRE | 1300 LANCE LN | CAROL STREAM | IL | 60188-3332 |
| ROLANDO LIM | 19140 MERION DR | NORTHRIDGE | CA | 91326-1835 |
| ROLANDO TONG | 3 NORMANDIE | ALISO VIEJO | CA | 92656-7064 |
| ROLF CARLE | PO BOX 13 | ROSAMOND | CA | 93560-0013 |
| ROLYAS | 16956 DESERITA AVE | NORTH EDWARDS | CA | 93523-3413 |
| ROLYAS TRUST | 16956 DESERITA AVE | NORTH EDWARDS | CA | 93523-3413 |
| ROMAN CATHOLIC ARCHBISHOP | 3424 WILSHIRE BLVD | LOS ANGELES | CA | 90010-2202 |
| ROMANA LOPEZ | 14400 MELODY LN | ROSAMOND | CA | 93560-7006 |
| ROMARICO LATUPAN | 13324 FOX ST | EDWARDS | CA | 93523-3248 |
| ROMEO DAVID | 78 AMBERWOOD CIR | S SAN FRAN | CA | 94080-3462 |
| ROMEO PALACIOS | 7318 DINWIDDIE ST | DOWNEY | CA | 90241 |
| ROMULO TAYOBA | 25611 AVENIDA JOLITA | VALENCIA | CA | 91355-2501 |
| RON BANUK | 15259 W ROSAMOND BLVD | ROSAMOND | CA | 93560-7288 |
| RON BIVINS | 13693 BADGER AVE | SYLMAR | CA | 91342-2510 |
| RON CAMMARATA | PO BOX 8935 | CALABASAS | CA | 91372-8935 |
| RON SATEL | PO BOX 2254 | ROSAMOND | CA | 93560-2254 |
| RONALD ARRACHE | PO BOX 2468 | LANCASTER | CA | 93539-2468 |
| RONALD BISSON | 38 KELLY CIR | SIDNEY | ME | 04330-2509 |
| RONALD BRANDINI | 3382 CORPUS CHRISTI ST | SIMI VALLEY | CA | 93063-1406 |
| RONALD CLARK | 18160 SHADOWBROOK WAY | MORGAN HILL | CA | 95037-3559 |
| RONALD GEGOIRE | 905 MISSION CREEK DR | PALM DESERT | CA | 92211-5910 |
| RONALD HARRIS | PO BOX 2117 | ROSAMOND | CA | 93560-2117 |
| RONALD HUNT | 3435 WHISPER SANDS AVE | ROSAMOND | CA | 93560-7807 |
| RONALD HUNT | 536 SAFE LANDING WAY | ROSAMOND | CA | 93560-7387 |
| RONALD LAMB | 1514 57TH ST W | ROSAMOND | CA | 93560-6915 |
| RONALD LARSEN | 5776 JACKSON AVE | ROSAMOND | CA | 93560-6970 |
| RONALD POPPINO | 321 MONTECITO AVE | MONTEREY | CA | 93940-3822 |
| RONALD ROQUEMORE | PO BOX 796 | BORON | CA | 93596-0796 |
| RONALD SHELDON | PO BOX 1789 | ROSAMOND | CA | 93560-1789 |
| RONALD SMILLIE | 9668 W ROSAMOND BLVD | ROSAMOND | CA | 93560-7506 |
| RONALD SPEED | 818 60TH ST W | ROSAMOND | CA | 93560-6910 |
| RONALD STRANGE | PO BOX 1256 | ROSAMOND | CA | 93560-1256 |
| RONG FITZIGIBBONS | 1158 E AVENUE J 5 | LANCASTER | CA | 93535 |
| RONNIE FOX | 24329 TAMARISK AVE | BORON | CA | 93516-1349 |
| RONNIE POUND | 6118 HOLIDAY AVE | ROSAMOND | CA | 93560-6519 |
| ROQUE NOLACIO JR | 44639 27TH STREET EAST | LANCASTER | CA | 93535-1769 |
| RORY BUTTERFIELD | PO BOX 1475 | ROSAMOND | CA | 93560-1475 |
| RORY NAVIS | 37054 BOXLEAF RD | PALMDALE | CA | 93550-7333 |
| ROSA BAEZ | 212 E AVENUE K6 STE 300 | LANCASTER | CA | 93535-4565 |
| ROSA BAEZ | 212 E AVENUE K6 | LANCASTER | CA | 93535-4567 |
| ROSA CASTANEDA | 10107 CONDON AVE | INGLEWOOD | CA | 90304-1438 |
| ROSA CRUZ | 14235 FRIAR ST | VAN NUYS | CA | 91401-2109 |
| ROSA HARO | PO BOX 2505 | ROSAMOND | CA | 93560-2505 |
| ROSA PRODAN | 4375 HUASNA RD | ARROYO GRANDE | CA | 93420-6175 |
| ROSA RAMOS | 616 E AVENUE G | LANCASTER | CA | 93535-5901 |
| ROSA TINTOCALIS | 5620 MAGDA CT | PALMDALE | CA | 93552-6304 |
| ROSALEE CALVERT | 0 49-305 HWY 74 NO 4 | PALM DESERT | CA | 92260 |
| ROSALINA ROBLES | 5798 JACKSON AVE | ROSAMOND | CA | 93560-6970 |
| ROSALINA TAYOBA | 25611 AVENIDA JOLITA | VALENCIA | CA | 91355-2501 |
| ROSALINDA ALATORRE | 5377 ELDER AVE | ROSAMOND | CA | 93560-6904 |
| ROSALVA ARELLANO | 21413 E AVENUE S | PALMDALE | CA | 93591-4519 |
| ROSAMOND | 100 S SUNRISE WAY STE 444 | PALM SPRINGS | CA | 92262-6778 |
| ROSAMOND | 100 S SUNRISE WAY STE 444 | PALM SPRINGS | CA | 92262-6778 |
| ROSARIO BANUELOS | 11635 SATICOY ST | NORTH HOLLYWOOD | CA | 91605-2945 |
| ROSARIO SALAZAR | 12360 GLAMIS ST | PACOIMA | CA | 91331-1649 |
| ROSAS LOPEZ | PO BOX 1201 | ROSAMOND | CA | 93560-1201 |
| ROSE CHANEY | 1832 FLOWER ST | BAKERSFIELD | CA | 93305-4144 |
| ROSE HAWKINS | 24178 SAGE AVE | BORON | CA | 93516-1332 |
| ROSE HERRERA | 13360 GILBERT ST | NORTH EDWARDS | CA | 93523-3430 |
| ROSELIA SANTIBANEZ | 47431 4TH ST W | LANCASTER | CA | 93534-7506 |
| ROSEMARIE BEALE | 6144 W AVENUE K1 | LANCASTER | CA | 93536-1903 |
| ROSEMARIE KING | 13658 E AVENUE K | LANCASTER | CA | 93535-8712 |
| ROSEMARIE MILLER | 1270 NORTHLAND DR STE 200 | MENDOTA HEIGHTS | MN | 55120-1176 |

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| ROSENDO ROBLES | 5798 JACKSON AVE | | ROSAMOND | CA | 93560-6970 |
| ROSETTA CARTER | 24204 JUNIPER AVE | | BORON | CA | 93516-1329 |
| ROSIE COOPER | PO BOX 2 | | AZUSA | CA | 91702-0002 |
| ROSIE HUBBARD | 38128 170TH ST E | | PALMDALE | CA | 93591-3605 |
| ROSS | 24304 CHAPARRAL AVE | | BORON | CA | 93516-1308 |
| ROSS SWINDLEHURST | 24405 TAMARISK AVE | | BORON | CA | 93516-1351 |
| ROSSOLL MALCOLM W | 8754 HOLLISTER RD | | PHELAN | CA | 92371-6488 |
| ROTIMI LAWANI | 1277 W WABASH ST | | RIALTO | CA | 92376-3986 |
| ROTTMAN LARRY W / ROTTMAN L ; K /TR | 6737 W AVENUE H12 | | LANCASTER | CA | 93536-8325 |
| ROWLBACK INVESTMENT GROUP LLC | 5446 LOCKHURST DR | | WOODLAND HILLS | CA | 91367-5734 |
| ROXANN WEBB | 32403 228TH ST E | | LLANO | CA | 93544-1575 |
| ROXANNA RAMEY | 25464 VIA ACORDE | | VALENCIA | CA | 91355-3152 |
| ROXANNA RAMSEY | 25464 VIA ACORDE | | VALENCIA | CA | 91355-3152 |
| ROYAL EWALT | 1000 E AVENUE S # 102 | | PALMDALE | CA | 93550 |
| RUBEN BAEZ | 212 E AVENUE K6 STE 300 | | LANCASTER | CA | 93535-4565 |
| RUBEN BAEZ | 212 E AVENUE K6 | | LANCASTER | CA | 93535-4567 |
| RUBEN LICEA | 9802 VENA AVE | | ARLETA | CA | 91331-4646 |
| RUBEN LOPEZ | 12860 FILMORE ST | | PACOIMA | CA | 91331-1236 |
| RUBEN MAGDALENO | 5838 CHARAN RD | | ROSAMOND | CA | 93560-7381 |
| RUBEN SILVA | 1430 LONGHILL | | HACIENDA HEIGHTS | CA | 91745 |
| RUBEN SOLIZ | 6382 GOBI AVE | | ROSAMOND | CA | 93560-7127 |
| RUDOLPH RCO | 5906 JASPER ST | | RANCHO CUCAMONGA | CA | 91701-1929 |
| RUDOLPH SHEPARD | 31791 VIA PATO | | COTO DE CAZA | CA | 92679-4128 |
| RUDOLPH TURK | PO BOX 865 | | PEARBLOSSOM | CA | 93553-0865 |
| RUFINA VIERNES | 1625 ANDALUSIA WAY | | SAN JOSE | CA | 95125-5004 |
| RUIZ ANTONIO / BETANCOURT ALEJANDRO S | 25757 E AVENUE V | | LLANO | CA | 93544-1535 |
| RUPERTO DOMINGO | 2059 LAS COLINAS AVE | | LOS ANGELES | CA | 90041-2713 |
| RUSSELL | 12100 WILSHIRE BLVD STE 800 | | LOS ANGELES | CA | 90025-7140 |
| RUSSELL BEVERLY | 44655 JEFFERSON ST | | LANCASTER | CA | 93535-2839 |
| RUSSELL CLARK | 6638 CONSTELLATION AVE | | ROSAMOND | CA | 93560-6356 |
| RUSSELL CLAWSON | 5329 W AVENUE C14 | | LANCASTER | CA | 93536-9512 |
| RUSSELL FULLER | 20004 W AVENUE E15 | | LANCASTER | CA | 93536-9078 |
| RUSSELL LANCASTER | PO BOX 1085 | | ROSAMOND | CA | 93560-1085 |
| RUSSELL TERRILL | PO BOX 320 | | BORON | CA | 93596-0320 |
| RUSSELL TINOYAN | 7708 W AVENUE H | | LANCASTER | CA | 93536-8109 |
| RUSSELLENE ANGEL | 4826 COUNTRY WOODS LN | | GREENSBORO | NC | 27410-1814 |
| RUTH BRECKENRIDGE | 24171 CHAPARRAL AVE | | BORON | CA | 93516-1303 |
| RUTH GODDE | 13104 BUCKHORN AVE | | ROSAMOND | CA | 93560-7014 |
| RUTH LAMB | 13038 W SUMMER POPPY ST | | TUCSON | AZ | 85743-7273 |
| RUTH MASSEY | 14235 E AVENUE O | | PALMDALE | CA | 93591-2106 |
| RUTH ODEN | PO BOX 855 | | PEARBLOSSOM | CA | 93553-0855 |
| RUTH WAMBAA | 4325 W 182ND ST APT 17 | | TORRANCE | CA | 90504-4538 |
| RUTITA CHAISAKULCHAI | 1120 PALM AVE | | SAN GABRIEL | CA | 91776-3015 |
| RYAN DUKE | 7010 W AVENUE E4 | | LANCASTER | CA | 93536-8821 |
| RYAN W J ; C D LIVING TRUST | 41 PADDOCK WAY | | LANCASTER | CA | 93536 |
| S HUTH-TANNER | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| SABRINA BOWER | 5531 CHARAN RD | | ROSAMOND | CA | 93560-6952 |
| SAHAGUN VICENTE D | SAHAGUN ENCARNACION A | 47649 70TH ST W | LANCASTER | CA | 93536-8802 |
| SAIRA BHAMANI | 22119 CAJUN CT | | CANOGA PARK | CA | 91303-1896 |
| SAKAGUCHI TOYOKO | 4857 W AVENUE A12 | | LANCASTER | CA | 93536-9557 |
| SALEEM DAOOD | 18154 MEDLEY DR | | ENCINO | CA | 91316-4446 |
| SALINAS LANDESERT RANCH LLC | 2001 PREUSS RD | | LOS ANGELES | CA | 90034-1205 |
| SALINE DAVIES | PO BOX 10 | | VALYERMO | CA | 93563-0010 |
| SALLIE CHATTERTON | PO BOX 190 | | ACTON | CA | 93510-0190 |
| SALLVIN TACIA / SALLVIN TRUST | 29232 106TH ST E | | LITTLEROCK | CA | 93543-4232 |
| SALLY GOOPIO | 6357 105TH ST W | | ROSAMOND | CA | 93560-6933 |
| SALPI HAYTAYAN | 6431 VARNA AVE | | VAN NUYS | CA | 91401-1806 |
| SALVADOR CHAVEZ | 4425 JASPER ST | | LOS ANGELES | CA | 90032-2608 |
| SALVADOR DIAZ | PO BOX 2294 | | ROSAMOND | CA | 93560-2294 |
| SALVADOR GOMEZ | 19903 VANOWEN ST | | WINNETKA | CA | 91306-3931 |
| SALVATORE CARRUBBA | 1834 CARSON MESA RD | | PALMDALE | CA | 93550-9728 |
| SAMPAGUITA SALAZAR | 37741 MENTOR CT | | PALMDALE | CA | 93550-2587 |
| SAMUEL ABRAHAM | 4190 E AVENUE I | | LANCASTER | CA | 93535 |
| SAMUEL HELLER | 28113 SECO CANYON RD UNIT 77 | | SANTA CLARITA | CA | 91390-4242 |
| SAMUEL MONY | 869 BIRCH HILL ST | | THOUSAND OAKS | CA | 91320-4063 |
| SAMULE HARE | 3186 PAWNEE CT | | SIMI VALLEY | CA | 93063-2061 |
| SANCHO MARIA G | 4659 E AVENUE G | | LANCASTER | CA | 93535-7708 |
| SANDEE CHAVEZ | 29857 104TH ST E | | JUNIPER HILLS | CA | 93543-3616 |
| SANDEEP GARG | 475 CROSSPOINT PKWY | | GETZVILLE | NY | 14068-1609 |
| SANDOVAL ARNULFO D / SANDOVAL ESMERALDA | 1002 E AVENUE J | | LANCASTER | CA | 93535-3870 |
| SANDOVAL PIERRE J / RAMIREZ ADRIANA | 44909 110TH ST W | | LANCASTER | CA | 93536-9344 |
| SANDRA ADKINS | PO BOX 351 | | BORON | CA | 93596-0351 |
| SANDRA DINNGER | 800 70TH ST W | | ROSAMOND | CA | 93560-7060 |
| SANDRA GABBANI | 2163 HARRIS AVE | | ROSAMOND | CA | 93560-6520 |
| SANDRA HAMMAN | 24124 CHAPARRAL AVE | | BORON | CA | 93516-1304 |
| SANDRA J. SCHUDER | 254 W 234TH ST | | CARSON | CA | 90745-5213 |
| SANDRA J. SCHUDER | 50260 85TH STREET W | | LANCASTER | CA | 93536 |
| SANDRA JADIDOLLAH | 8605 AIRDROME ST | | LOS ANGELES | CA | 90035-4409 |
| SANDRA JOHNSON | 42444 28TH ST W | | LANCASTER | CA | 93536-4019 |
| SANDRA KNUDSEN | PO BOX 6234 | | LANCASTER | CA | 93539-6234 |
| SANDRA MCCRAE | PO BOX 2423 | | LANCASTER | CA | 93539-2423 |
| SANDRA OSBORNE | PO BOX 233 | | BORON | CA | 93596-0233 |
| SANG CHANG | 328 QUAY ST | | LAKEWOOD | CO | 80226-1700 |
| SANGKYU LEE | 19725 ALYSSA DR | | SANTA CLARITA | CA | 91321-2144 |
| SANJUAN JUAN J JR; ALICIA | SANJUAN FAMILY | 48812 90TH ST E | LANCASTER | CA | 93535-7911 |
| SANJUANITA SERMON | 1340 97TH ST W | | ROSAMOND | CA | 93560 |
| SANTIAGO GUZMAN | 2407 E 109TH ST | | LOS ANGELES | CA | 90059-1409 |

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| SANTIBANEZ ROSELIA / JAGUARES TRUST | 47431 4TH ST W | | LANCASTER | CA | 93534-7506 |
| SANTOS CAPILLA | 6542 GASKELL RD | | ROSAMOND | CA | 93560-7131 |
| SANTOS CASTRO | 321 E 97TH ST | | INGLEWOOD | CA | 90301-4201 |
| SANTOS JUAN C / GARCIA ZOILA | 37361 MANGROVE DR | | PALMDALE | CA | 93551 |
| SARA BOWERMAN | 1558 DAUNTING DR | | EL DORADO HLS | CA | 95762-7658 |
| SARAH DANE | PO BOX 6386 | | LANCASTER | CA | 93539-6386 |
| SARAH NELSON | PO BOX 554 | | BORON | CA | 93596-0554 |
| SAUL PEREZ | 2922 BROADWAY | | HUNTINGTON PARK | CA | 90255-6434 |
| SAXON MORTGAGE SERVICES INC | 155 N LAKE AVE | | PASADENA | CA | 91101-5615 |
| SAXON MTG SVCS INC | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| SAYLES CHRISTOPHER M / SAYLES VICKY E | 29424 123RD ST E | | PEARBLOSSOM | CA | 93553-3408 |
| SCARBOROUGH MARTIN W JR | 321 W AVENUE G | | LANCASTER | CA | 93534-7606 |
| SCARUFFI JOSEPH | 13257 E AVENUE H | | LANCASTER | CA | 93535-8721 |
| SCHAEFFING JAMES; REBECCA | SCHAEFFING FAMILY | 4517 CINNABAR AVE | PALMDALE | CA | 93551-1855 |
| SCHEIRE PUTNAM | 5527 105TH ST W | | WILLOW SPRINGS | CA | 93560-7500 |
| SCHILLING LAWRENCE; MARY | SCHILLING FAMILY | 11317 E AVENUE E | LANCASTER | CA | 93535-8005 |
| SCHLENER PAT | PO BOX 412 | | HAYDEN | ID | 83835-0412 |
| SCHMELKA LOUISE L | 5859 E AVENUE E | | LANCASTER | CA | 93535-7846 |
| SCHNAIDT THEODORE B JR | 17500 E PALMDALE BLVD | | LLANO | CA | 93544-1462 |
| SCHNEIDER PAUL G / SCHNEIDER CINDY D | 7704 W AVENUE H | | LANCASTER | CA | 93536-8109 |
| SCHNELL ROBERT / SCHNELL PEGGY | 36852 ZINNIA ST | | PALMDALE | CA | 93550-7380 |
| SCHOTT DOUGLAS D / SCHOTT DEBORAH L | 8658 E AVENUE H | | LANCASTER | CA | 93535-7903 |
| SCHRAMM LEE T / SCHRAMM LYNN D | 47650 50TH ST E | | LANCASTER | CA | 93535-7704 |
| SCHROEDER CORINNE | 3637 2ND AVE | | LA CRESCENTA | CA | 91214-2433 |
| SCHWEIIIZER JACK A | SCHWEIZER; LEVI /TR | 22711 W AVENUE D13 | LANCASTER | CA | 93536-9109 |
| SCOTT BAILEY | 10937 EL DORADO AVE | | ROSAMOND | CA | 93560-7293 |
| SCOTT BECKETT | 43357 43RD ST W | | QUARTZ HILL | CA | 93536-5522 |
| SCOTT BUTCHER | PO BOX 720193 | | PINON HILLS | CA | 92372-0193 |
| SCOTT CASPER | 44447 VALLEY CENTRAL WAY # 417 | | LANCASTER | CA | 93536-6529 |
| SCOTT EPPS | PO BOX 2423 | | ROSAMOND | CA | 93560-2423 |
| SCOTT HARTER | 2057 100TH ST W | | ROSAMOND | CA | 93560-7054 |
| SCOTT KLING | 1717 HUNTINGTON DR APT 8 | | SOUTH PASADENA | CA | 91030-4832 |
| SCOTT MC DONALD | PO BOX 34 | | MOJAVE | CA | 93502-0034 |
| SCOTT NELSON | 47520 180TH ST W | | LANCASTER | CA | 93536-9721 |
| SCOTT NGUYEN | 5002 W MCFADDEN AVE SPC 3 | | SANTA ANA | CA | 92704-1169 |
| SCOTT NGUYEN | 5002 W MCFADDEN AVE SPC 3 | | SANTA ANA | CA | 92704-1169 |
| SCOTT ROKEY | 1801 65TH ST W | | ROSAMOND | CA | 93560-6521 |
| SCOTT STOGNER | 12235 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| SCOTT ZINN | PO BOX B1 | | ROSAMOND | CA | 93560 |
| SEBASTIAN MALONE | 19574 CASTILLE LN | | SANTA CLARITA | CA | 91350-3875 |
| SECURITY TITLE CALIFORNIA LLC TR | 3053 RANCHO VISTA BLVD # H373 | | PALMDALE | CA | 93551-4823 |
| SEGEH GOSPEL MISSION INC | PO BOX 2868 | | RANCHO CUCAMONGA | CA | 91729-2868 |
| SELENE RMOF REO ACQUISTIONS LL | 9990 RICHMOND AVE # 100 | | HOUSTON | TX | 77042-4559 |
| SERGIO TAMAYO | 2259 DWIGHT CT | | ROSAMOND | CA | 93560-5937 |
| SERRANO ENEDINA | 4600 VIA DOLCE # 2118 | | MARINA DEL REY | CA | 90292-6790 |
| SERRANO PABLO / SERRANO TRINIDAD | 48950 130TH ST W | | LANCASTER | CA | 93536-9722 |
| SETTHA EMPREMSILAPA | 17808 NORAN CIR | | CERRITOS | CA | 90703-8719 |
| SEVERIANO MORALES / SEVERIANO EULALIA | 43504 KIRKLAND AVE | APT 166 | LANCASTER | CA | 93535-4690 |
| SHAFFER TODD W | 3729 140TH ST W | | ROSAMOND | CA | 93560-7485 |
| SHAIK RAFI | 3480 GRANADA AVE APT 193 | | SANTA CLARA | CA | 95051-3426 |
| SHAJEE SIDDIQUI | 4313 MANORVIEW CT | | MOORPARK | CA | 93021-2791 |
| SHALAINE FINK | 24261 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| SHANDA COYLE | 10714 YUCCA AVE | | ROSAMOND | CA | 93560-7516 |
| SHANE ALLEN | 10633 PINECREST MESA RD | | JUNIPER HILLS | CA | 93543-4231 |
| SHANE DUNCAN | 3681 NEVADA AVE | | PAHRUMP | NV | 89048-5975 |
| SHANIE MATEIRO | 12349 SIERRA VIEW ST | | BORON | CA | 93516-1341 |
| SHANNON INGRAM | 2455 VEGAS VIC ST | | HENDERSON | NV | 89002-9300 |
| SHANNON LAREN | PO BOX 105 | | VALYERMO | CA | 93563-0105 |
| SHANNON YAMASHIRO | 4828 LOOP CENTRAL DR | | HOUSTON | TX | 77081-2212 |
| SHANTHA MONY | 869 BIRCH HILL ST | | THOUSAND OAKS | CA | 91320-4063 |
| SHAO WU | 24600 GARDENSTONE LN | | WEST HILLS | CA | 91307-3808 |
| SHAOSHIA LING | 5631 TUFTS ST | | DAVIS | CA | 95618-7216 |
| SHARLENE SZERDI | PO BOX 455 | | LLANO | CA | 93544-0455 |
| SHARON BREWER | 2925 JEFFERIES ST | | ROSAMOND | CA | 93560-7900 |
| SHARON CADUNGOG | 673 FISHER CIR | | FOLSOM | CA | 95630-9541 |
| SHARON DUVERNAY | 20539 E AVENUE R | | PALMDALE | CA | 93591-4500 |
| SHARON HOWARD | 14650 BIG SKY DR | | PEARBLOSSOM | CA | 93553-3437 |
| SHARON MACHLIK | 8501 COLIMA RD | | WHITTIER | CA | 90605-1306 |
| SHARON MC KENNA | 2364 LUPINE TRL | | BULLHEAD CITY | AZ | 86442-8760 |
| SHARON SHAW | PO BOX 903386 | | PALMDALE | CA | 93590-3386 |
| SHARON SMITH | PO BOX 763 | | ROSAMOND | CA | 93560-0763 |
| SHARON TREMBLAY | PO BOX 1910 | | ROSAMOND | CA | 93560-1910 |
| SHAVER CHRISTOPHER D | 4039 E AVENUE L | | LANCASTER | CA | 93535-8200 |
| SHAW CAROL A / SYLVAS LONNIE | 14651 S FRAILEY AVE | | COMPTON | CA | 90221-2511 |
| SHEA NANCY LIVING TRUST | 27710 JUBILEE RUN RD | | PEARBLOSSOM | CA | 93553-3439 |
| SHEELEY TRACY D / SHEELEY JAY T | 4616 CINNABAR AVE | | PALMDALE | CA | 93551-1852 |
| SHEILA AMENTO | BOX 1021 | | NORTH EDWARDS | CA | 93523 |
| SHEILA CARLE | PO BOX 13 | | ROSAMOND | CA | 93560-0013 |
| SHEILA WILSON | 10816 MENDIBURU RD | | CALIF CITY | CA | 93505-2359 |
| SHELBY JONES | 9121 WALPOLE AVE | | CALIF CITY | CA | 93505-2203 |
| SHELLEY DEDAUW | 1520 DISC DR | | SPARKS | NV | 89436-4601 |
| SHELLEY FRANCO | 6316 GOBI AVE | | ROSAMOND | CA | 93560-7127 |
| SHELLEY GAGE | 24303 CHAPARRAL AVE | | BORON | CA | 93516-1307 |
| SHELLY BASSO | PO BOX 2024 | | WARSAW | MO | 65355-2024 |
| SHELLYE ALLEN | 45056 LOGUE CT | | LANCASTER | CA | 93535-2678 |
| SHELMADINE CALL | 26147 E AVENUE U10 | | LLANO | CA | 93544-1586 |
| SHENZHEN VALOR INVESTMENT LLC | 18071 ARENTH AVE | | CITY OF INDUSTRY | CA | 91748-1223 |

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| SHEREE TOMPKINS | 12764 HOLIDAY AVE | | ROSAMOND | CA | 93560-7163 |
| SHERILYN HANSTAD | 269 CAGEL ST | | ROSAMOND | CA | 93560-6905 |
| SHERMAN DOLE | 38610 140TH ST E | | PALMDALE | CA | 93591-2500 |
| SHERRI DUMIN | PO BOX 1348 | | ROSAMOND | CA | 93560-1348 |
| SHERRI TORRES | 3334 78TH ST W | | ROSAMOND | CA | 93560-6995 |
| SHERRY ELLIS | 15444 SPUNKY CANYON RD # 847 | | AGUA DULCE | CA | 91390-4902 |
| SHERRY EUZARRAGA | 555 N EL CAMINO REAL | | SAN CLEMENTE | CA | 92672-6740 |
| SHERRY HARRIS | PO BOX 1497 | | ROSAMOND | CA | 93560-1497 |
| SHERRY NAKAAHIKI | 24286 JUNIPER AVE | | BORON | CA | 93516-1329 |
| SHERVIN BAYAN | 8627 PICKFORD ST APT 6 | | LOS ANGELES | CA | 90035-4450 |
| SHERYL CROFT | 2608 60TH ST W | | ROSAMOND | CA | 93560-6988 |
| SHERYL JENNINGS | PO BOX 2354 | | ROSAMOND | CA | 93560-2354 |
| SHIMEL MARIE P / DAVIDSON JAMES W | 42612 70TH ST E | | PALMDALE | CA | 93552-1100 |
| SHIRLEY ADAM | 2224 50TH ST W | | ROSAMOND | CA | 93560-6488 |
| SHIRLEY EASLER | 5933 HOLIDAY AVE | | ROSAMOND | CA | 93560-6562 |
| SHIRLEY EASLER | 5933 HOLIDAY AVE | | ROSAMOND | CA | 93560-6562 |
| SHIRLEY GERISCH | 2608 60TH ST W | | ROSAMOND | CA | 93560-6988 |
| SHIRLEY HARRINGTON | 614 20TH ST W | | ROSAMOND | CA | 93560-6529 |
| SHIRLEY HUANG | 2089 PASEO NOCHE | | CAMARILLO | CA | 93012-9371 |
| SHIRLEY MACFARLANE | 1521 E AVENUE Q6 | | PALMDALE | CA | 93550-4821 |
| SHIRLEY POWERS | 2410 HIDDEN HILLS LN | | LINCOLN | CA | 95648-8212 |
| SHIRLEY SHOKRIAN | 319 S ROBERTSON BLVD | | BEVERLY HILLS | CA | 90211-3602 |
| SHIRLEY WILLIS L / SHIRLEY GLENDA M | 9740 E AVENUE G10 | | LANCASTER | CA | 93535-8425 |
| SHOU LUNG HUANG | 32857 REGENTS BLVD | | UNION CITY | CA | 94587-5410 |
| SHUCHIN KOU | 995 PASEO LA CRESTA | | PALOS VERDES ESTATES | CA | 90274-2058 |
| SHULTIS REVOCABLE LIVING TR | 6590 CONSTELLATION AVE | | ROSAMOND | CA | 93560-6504 |
| SHULTS JOYCE REV LIV TRUST | PO BOX 537 | | ROSAMOND | CA | 93560-0537 |
| SID ESPINOZA | 123 SUGARBUSH LN | | NORTH LAS VEGAS | NV | 89031-7960 |
| SID FROMBERG | PO BOX 2575 | | LANCASTER | CA | 93539-2575 |
| SIEBERT JEFFREY L / SIEBERT NANCEE J | 19235 W AVENUE C | | LANCASTER | CA | 93536-9282 |
| SIEROTY DONNA A | 39533 VICKER WAY | | PALMDALE | CA | 93551-1025 |
| SIERRA HIGHWAY AND | 23504 OAK VALLEY RD | | CUPERTINO | CA | 95014-6555 |
| SILVER VELOZ | 6427 FIRMAMENT AVE | | ROSAMOND | CA | 93560-6480 |
| SIMENSEN JACK A / SIMENSEN BARBARA J | 29550 118TH ST E | | JUNIPER HILLS | CA | 93543-4259 |
| SIMON CHUNG | 17231 HALSEY ST | | GRANADA HILLS | CA | 91344-2422 |
| SIMON ROBERT J | 17610 BIG PINES HWY | | VALYERMO | CA | 93563 |
| SIMPLICIO MAPPALA | 1251 W 82ND AVE | | ANCHORAGE | AK | 99518-2439 |
| SIMPSON ROBERT A / SIMPSON LUCIANA | 40826 GRANITE ST | | PALMDALE | CA | 93551-1806 |
| SINA HAMIDI | 7210 JORDAN AVE STE B15 | | CANOGA PARK | CA | 91303-1357 |
| SIU LI | 1236 E MARIPOSA AVE | | EL SEGUNDO | CA | 90245-3222 |
| SKINNERJOHN G / SKINNERJOHN GAYLE D | 50240 90TH ST W | | LANCASTER | CA | 93536-9406 |
| SMITH | PO BOX 598 | | ROSAMOND | CA | 93560-0598 |
| SMITH BILLIE M | 9220 W AVENUE I | | LANCASTER | CA | 93536-8001 |
| SMITH CHRISTOPHER J R / SMITH PAULA | 7758 W AVENUE F | | LANCASTER | CA | 93536-8804 |
| SMITH JODY L | 43926 90TH ST W | | LANCASTER | CA | 93536-7702 |
| SMITH LEANTHONY | 13509 E AVENUE P | | PALMDALE | CA | 93591-1607 |
| SMITH LISA | 45124 93RD ST W | | LANCASTER | CA | 93536-7735 |
| SMITH MICHAEL A | 47052 5TH ST W | | LANCASTER | CA | 93534-7501 |
| SMITH MICHAEL W | 14016 FORT TEJON RD | | PEARBLOSSOM | CA | 93553-3407 |
| SMITH ROBERT L ; LELA M / SMITH FAMILY | 47038 4TH ST W | | LANCASTER | CA | 93534-7500 |
| SMITH WOZNIAK | 9909 CHARAN RD | | ROSAMOND | CA | 93560 |
| SMITSKI THERESA | 6248 E AVENUE H4 | | LANCASTER | CA | 93535-8302 |
| SOARING VISTA PROPERTIES INC | 18500 VON KARMAN AVE STE 900 | | IRVINE | CA | 92612-0526 |
| SOCORRO GRIMALDO | 44118 ELM AVE | | LANCASTER | CA | 93534-4431 |
| SOCTT RINDFLEISCH | 3708 MCNAB AVE | | LONG BEACH | CA | 90808-2216 |
| SOFIA RIOS | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| SOFIA VIVAS | 13505 SATICOY ST | APT 1 | PANORAMA CITY | CA | 91402-6437 |
| SOLOMON TERRY | 18348 W AVENUE D | | LANCASTER | CA | 93536-9270 |
| SONIA ACOSTA | 7969 STANSBURY AVE | | PANORAMA CITY | CA | 91402-5216 |
| SOO LEE | 808 W HEADWATERS DR | | EAGLE | ID | 83616-5750 |
| SOO YEE | 8538 LA MADRINA DR | | ROSEMEAD | CA | 91770-4302 |
| SOON DICKY L | 37218 THE GRVS | | PALMDALE | CA | 93551-6234 |
| SORRENTO WEST PROPERTIES INC | 3550 GENERAL ATOMICS CT | | SAN DIEGO | CA | 92121-1122 |
| SOTOMAYOR RAFAEL / SOTOMAYOR MARTA | 37701 STANDISH PL | | PALMDALE | CA | 93551-6951 |
| SOU KERN UNIFIED SCH DIST | 3082 GLENDOWER ST | | ROSAMOND | CA | 93560-7688 |
| SPAIN PETE / SPAIN DIANE | 18741 E PALMDALE BLVD | | PALMDALE | CA | 93591-4305 |
| SPALINGER STEPHEN M | SPALINGER MARILYN A | 12143 E AVENUE H | LANCASTER | CA | 93535-8725 |
| STACEY HUFFORD | PO BOX 1815 | | ROSAMOND | CA | 93560-1815 |
| STACEY LAMB | 1514 57TH ST W | | ROSAMOND | CA | 93560-6915 |
| STACY VOGT | 11941 GASKELL RD | | ROSAMOND | CA | 93560-7055 |
| STALLING MICHAEL L / LAMARR REBECCA L | 31721 213TH ST E | | LLANO | CA | 93544-1552 |
| STAMBACK CRAIG A / STAMBACK SARA J | 50075 280TH ST W | | LANCASTER | CA | 93536-9241 |
| STAN ALBRECHTA | 235 CAGEL ST | | ROSAMOND | CA | 93560-6905 |
| STANLEY BOYKIN | 38237 171ST ST E | | PALMDALE | CA | 93591-3706 |
| STANLEY CARTER | PO BOX 2421 | | ROSAMOND | CA | 93560-2421 |
| STANLEY EVANS | 12400 SIERRA VIEW ST | | BORON | CA | 93516-1343 |
| STANLEY NISHIMURA | 1049 WESTCHESTER PL | | LOS ANGELES | CA | 90019-2014 |
| STANLEY PETERSEN | 8225 ILLAHEE RD NE | | BREMERTON | WA | 98311-9373 |
| STANLEY WALTON | 24242 CHAPARRAL AVE | | BORON | CA | 93516-1306 |
| STAUTER DIANE M | 46701 90TH ST W | | LANCASTER | CA | 93536-8012 |
| STEDMAN KAREN | 51203 110TH ST W | | LANCASTER | CA | 93536-9449 |
| STEELE EXEMPTION TRUST B | 1907 VIA MADONNA | | LOMITA | CA | 90717-3622 |
| STEPHANIE DOZIER | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| STEPHANIE HOUGE | 16869 W SUNSET BLVD | | PACIFIC PALISADES | CA | 90272-3206 |
| STEPHANNIE HUTH | 3500 75TH ST W | | ROSAMOND | CA | 93560-7179 |
| STEPHEN ANDERSON | 9742 VALJEAN AVE | | NORTH HILLS | CA | 91343-1936 |
| STEPHEN BASSO | PO BOX 2024 | | WARSAW | MO | 65355-2024 |

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| STEPHEN BAUER | 11420 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4218 |
| STEPHEN EMERSON | 29475 N CANDLEWOOD DR | | QUEEN CREEK | AZ | 85243-3801 |
| STEPHEN LEE | PO BOX 247 | | LLANO | CA | 93544-0247 |
| STEPHEN PATRICIA K | 8158 W AVENUE J | | LANCASTER | CA | 93536-7713 |
| STEPHEN ROHRBACHER | 6316 GOBI AVE | | ROSAMOND | CA | 93560-7127 |
| STERK FRANK M /LT / STERK MARGARET | 12141 E AVENUE H | | LANCASTER | CA | 93535-8725 |
| STERK JERRY A / STERK J A ; B L /TR | 7847 E AVENUE I | | LANCASTER | CA | 93535-8306 |
| STERLING ANDREW / STERLING JUDITH | 18333 LANCASTER RD | | LANCASTER | CA | 93536-9021 |
| STEVE BISHOP | 6318 105TH ST W | | ROSAMOND | CA | 93560-6933 |
| STEVE BRECKENRIDGE | 24157 CHAPARRAL AVE | | BORON | CA | 93516-1303 |
| STEVE CROSBY | 6672 HOLIDAY AVE | | ROSAMOND | CA | 93560-6569 |
| STEVE MORENO | 5980 VALLEY SAGE RD | | ACTON | CA | 93510-1027 |
| STEVEN BAUER | 14375 BRIGHTSTAR AVE | | ROSAMOND | CA | 93560-7036 |
| STEVEN BERNHEIM | 13211 MULHOLLAND DR | | BEVERLY HILLS | CA | 90210-1143 |
| STEVEN BREWER | 2925 JEFFERIES ST | | ROSAMOND | CA | 93560-7900 |
| STEVEN BREWER | 2925 JEFFERIES ST | | ROSAMOND | CA | 93560-7900 |
| STEVEN DREILING | 357 HACIENDA DR | | PALMDALE | CA | 93551-7811 |
| STEVEN DURHAM | PO BOX 813 | | LAKE HUGHES | CA | 93532-0813 |
| STEVEN FORD | 11580 GENTLEWOOD DR | | MOORPARK | CA | 93021-3753 |
| STEVEN GALE | PO BOX 44 | | ROSAMOND | CA | 93560-0044 |
| STEVEN GRIFFITH | 3391 NW TERRACE DR | | ALBANY | OR | 97321-9366 |
| STEVEN HAGINS | 1231 EUCLID ST APT 6 | | SANTA MONICA | CA | 90404-1037 |
| STEVEN KNUDSEN | PO BOX 6234 | | LANCASTER | CA | 93539-6234 |
| STEVEN LITVAK | 17762 PRESCOTT LN | | HUNTINGTN BCH | CA | 92647-6432 |
| STEVEN MACLENNAN | 8833 SHOSHONE AVE | | NORTHRIDGE | CA | 91325-3122 |
| STEVEN MARCO | 17884 LORRAINE AVE | | NORTH EDWARDS | CA | 93523-3538 |
| STEVEN NORRIS | 13669 FLINT ST | | EDWARDS | CA | 93523-3502 |
| STEVEN PALLOW | PO BOX 395 | | LLANO | CA | 93544-0395 |
| STEVEN RHODEN | PO BOX 1280 | | PEARBLOSSOM | CA | 93553-2280 |
| STEVEN SERLIN | 6501 IRVINE CENTER DR | | IRVINE | CA | 92618-2118 |
| STEVEN SWICK | PO BOX 294 | | PEARBLOSSOM | CA | 93553-0294 |
| STEVEN TRUPP | 47616 DIVISION ST | | LANCASTER | CA | 93535-6502 |
| STEVEN WILSON | 10816 MENDIBURU RD | | CALIF CITY | CA | 93505-2359 |
| STEWART RACING PRODUCTS INC | 99 WYOMING ST | | BOULDER CITY | NV | 89005-2803 |
| STIX DALE W / STIX MELANIE | 40809 SILTSTONE CT | | PALMDALE | CA | 93551-1853 |
| STONE ALICE M / STONE MARILYN | 46703 60TH ST W | | LANCASTER | CA | 93536-8500 |
| STONER DANIEL T / STONER LISA | 48321 70TH ST E | | LANCASTER | CA | 93535-7866 |
| STOUT JASON P / KLEIN STOUT STACY | 42624 MERIDIAN WAY | | LANCASTER | CA | 93536-4555 |
| STRAUSS OLIVER C / STRAUSS CAROLE L | 40807 COBBLESTONE CT | | PALMDALE | CA | 93551-1850 |
| STUART SIMS | PO BOX 1070 | | BORON | CA | 93596-1070 |
| SUBRAMANIAN RON ; C S TRUST | 40810 RIVEROCK LN | | PALMDALE | CA | 93551-1203 |
| SUE POPPINO | 321 MONTECITO AVE | | MONTEREY | CA | 93940-3822 |
| SUE SORENSEN | 1852 MARY RD | | ACTON | CA | 93510-1493 |
| SUMALBAG ERIBERTO P | SUMALBAG GENOVEVA R | 47637 70TH ST W | LANCASTER | CA | 93536-8802 |
| SUN HUI YIM | 30014 233RD ST E | | LLANO | CA | 93544-1570 |
| SUN KIM | 27366 DEARBORN DR | | VALENCIA | CA | 91354-1870 |
| SUNG KO | 4711 ROCKLAND PL | | LA CANADA FLINTRIDGE | CA | 91011-1431 |
| SUNG SHIN | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| SUNG YOON | 1001 STARBUCK ST APT K301 | | FULLERTON | CA | 92833-5704 |
| SUNIL DESILVA | 18924 STRATHERN ST | | RESEDA | CA | 91335-1122 |
| SUSAN AUSTIN | 1612 SUSSEX CT | | PALMDALE | CA | 93550-6998 |
| SUSAN DAVID | 78 AMBERWOOD CIR | | S SAN FRAN | CA | 94080-3462 |
| SUSAN EDWARDS | PO BOX 5863 | | LANCASTER | CA | 93539-5863 |
| SUSAN EVANS | PO BOX 560 | | PEARBLOSSOM | CA | 93553-0560 |
| SUSAN FERNANDEZ | 18427 STUDEBAKER RD APT 250 | | CERRITOS | CA | 90703-5325 |
| SUSAN FORBES | 228 55TH ST W | | ROSAMOND | CA | 93560-6525 |
| SUSAN JENKINS | 7916 GASKELL RD | | ROSAMOND | CA | 93560-7277 |
| SUSAN POWARZYNSKI | 47505 172ND ST W | | LANCASTER | CA | 93536-9000 |
| SUSAN WETZEL | 7738 BACKUS RD | | MOJAVE | CA | 93501-7162 |
| SUSANA MARTINEZ | 11040 LORNE ST | APT 230 | SUN VALLEY | CA | 91352-3976 |
| SUSANA TARAU | PO BOX 2964 | | CORONA | CA | 92878-2964 |
| SUSIE BROOKS | PO BOX 5776 | | LANCASTER | CA | 93539-5776 |
| SUZAN MACISAAC | 2100 POPLAR ST | | ROSAMOND | CA | 93560-7660 |
| SUZANNE JONES | 1967 65TH ST W | | ROSAMOND | CA | 93560-6568 |
| SUZANNE LEONE | 4712 67TH ST W | | ROSAMOND | CA | 93560-9003 |
| SUZI STEFFENS | 5138 60TH ST W | | ROSAMOND | CA | 93560-6551 |
| SYLVESTER JACKSON | PO BOX 2328 | | ROSAMOND | CA | 93560-2328 |
| SYLVIA HARRISON | 24372 JUNIPER AVE | | BORON | CA | 93516-1364 |
| SYLVIA KANATSKY | PO BOX 505 | | RUNNING SPRINGS | CA | 92382-0505 |
| SYLVIA STEGMAN | 4636 E AVENUE H | | LANCASTER | CA | 93535-7718 |
| SYNTHEA JONES | 513 S LA BREA AVE | | INGLEWOOD | CA | 90301-2723 |
| TAKASHI KONO | 35130 SMALL RD | | PALMDALE | CA | 93550-9781 |
| TALMAN AND TALMAN INC | 6725 MESA RIDGE RD STE 204 | | SAN DIEGO | CA | 92121-2925 |
| TAMARA CAUDILL | 41024 16TH ST W | | PALMDALE | CA | 93551-2145 |
| TAMARA MULTHAUPT | 3323 W FAIRCREST DR | | ANAHEIM | CA | 92804-3014 |
| TAMARA VEGA | 496 S COATE RD | | ORANGE | CA | 92869-4701 |
| TAMELA BROWN | 8549 UNDERWOOD AVE | | CALIF CITY | CA | 93505-3857 |
| TAMMY VELAZQUEZ | 30700 106TH ST E | | LITTLEROCK | CA | 93543-3640 |
| TAMRA HALCOMB | 908 60TH ST W | | ROSAMOND | CA | 93560-7238 |
| TANIA CENTENO | 9545 ARRINGTON AVE | | DOWNEY | CA | 90240-3401 |
| TANYA SCHMIDT | PO BOX 123 | | PEARBLOSSOM | CA | 93553-0123 |
| TAPIA BROS INC | 6500 W AVENUE N | | PALMDALE | CA | 93551-2855 |
| TAREK ALY | 3027 S VERMONT AVE | | LOS ANGELES | CA | 90007-3033 |
| TARI PLANTE | PO BOX 2106 | | ROSAMOND | CA | 93560-2106 |
| TATE DAVID A / TATE MADELYN L | 37707 STANDISH PL | | PALMDALE | CA | 93551-6951 |
| TAYLOR SIMON | 10240 E AVENUE F8 | | LANCASTER | CA | 93535-8000 |
| TCIF REO GCM LLC | 1100 VIRGINIA DR | | FORT WASHINGTON | PA | 19034-3204 |

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| TED GREENWOOD | PO BOX 720160 | | PINON HILLS | CA | 92372-0160 |
| TED IVY | 2830 INDIAN SPRINGS DR | | LK HAVASU CTY | AZ | 86406-8517 |
| TEOFILO GERMONO | 744 LINCOLN AVE UNIT A | | ALAMEDA | CA | 94501-3314 |
| TERESA ALICER | 1452 3RD ST | | SIMI VALLEY | CA | 93065-3206 |
| TERESA KINDSCHI | 24168 TAMARISK AVE | | BORON | CA | 93516-1346 |
| TERESA LIPAROTE | 14731 LAKEMONT RD | | LAKE HUGHES | CA | 93532-1322 |
| TERESA LUM | 136 WAVE ST | | LAGUNA BEACH | CA | 92651-1422 |
| TERESA RISPOLI | 503 ANZA PL | | PALMDALE | CA | 93551-7923 |
| TERESA SCOTT | 7330 GILA CT | | PALMDALE | CA | 93551-4719 |
| TERESA VASQUEZ | 2917 VIRGINIA AVE | | SANTA MONICA | CA | 90404-5031 |
| TERRANCE BLACKBURN | 1340 GRAY AVE | APT 16 | YUBA CITY | CA | 95991-3220 |
| TERRANCE O CALLAGHAN | 2382 60TH ST W | | ROSAMOND | CA | 93560-7192 |
| TERRI BARKER | 12235 SIERRA VIEW ST | | BORON | CA | 93516-1339 |
| TERRI GONZALES | PO BOX 1981 | | LANCASTER | CA | 93539-1981 |
| TERRY BEALE | 6144 W AVENUE K1 | | LANCASTER | CA | 93536-1903 |
| TERRY DRONET | PO BOX 1595 | | ROSAMOND | CA | 93560-1595 |
| TERRY JONES | 4343 OCEAN VIEW BLVD APT 253 | | MONTROSE | CA | 91020-1207 |
| TERRY KUCHTA | PO BOX 188 | | PEARBLOSSOM | CA | 93553-0188 |
| TERRY LANDSIEDEL | PO BOX 1467 | | ROSAMOND | CA | 93560-1467 |
| TERRY RILEY | 6110 BRENTWOOD AVE | | LANCASTER | CA | 93536-1790 |
| TERRY ROBERSON | 24140 TAMARISK AVE | | BORON | CA | 93516-1346 |
| TERRY SOLOMON | 18348 W AVENUE D | | LANCASTER | CA | 93536-9270 |
| TESTA RAYMOND R JR / TESTA CARLA A | 29422 125TH ST E | | PEARBLOSSOM | CA | 93553-3483 |
| THACH NGUYEN | 15217 SEVERYNS RD | | TUSTIN | CA | 92782-1797 |
| THADDEUS HERMES | 110 W C ST STE 2101 | | SAN DIEGO | CA | 92101-3910 |
| THALMA HARTZ | 24336 JOSHUA AVE | | BORON | CA | 93516-1356 |
| THEILE KARL / PALENCIA ETNA L | 44705 31ST ST W | | LANCASTER | CA | 93536-8368 |
| THEN CHAU | 3176 DUNWICH CT | | SAN JOSE | CA | 95148-3656 |
| THEODORE BROWNE | 15200 SIERRA HWY | | MOJAVE | CA | 93501-1818 |
| THEODORE EBENKAMP | 1815 DEBANN PL | | ROWLAND HEIGHTS | CA | 91748-3213 |
| THERESA BREHM | 39602 179TH ST E | | PALMDALE | CA | 93591-3308 |
| THERESA COSTELLO | 24178 JUNIPER AVE | | BORON | CA | 93516-1328 |
| THERESA GRIER | 2951 59TH ST W | | ROSAMOND | CA | 93560-6274 |
| THERESA KING | 6209 GOBI AVE | | ROSAMOND | CA | 93560-7133 |
| THERESA LEWANDOWSKI | 5901 CATHY AVE | | ROSAMOND | CA | 93560-7231 |
| THI NGO | 3176 DUNWICH CT | | SAN JOSE | CA | 95148-3656 |
| THO NGUYEN | 2306 EMERALD HILLS CIR | | SAN JOSE | CA | 95131-2620 |
| THOMAS APPLEBY | 1525 60TH ST W | | ROSAMOND | CA | 93560-6574 |
| THOMAS BROWN | 1707 LARK ELLEN DR | | FULLERTON | CA | 92835-2139 |
| THOMAS CAPRICCIO | PO BOX 94 | | LLANO | CA | 93544-0094 |
| THOMAS DE LANO | PO BOX 1211 | | ROSAMOND | CA | 93560-1211 |
| THOMAS DELANO | PO BOX 1211 | | ROSAMOND | CA | 93560-1211 |
| THOMAS FLANAGAN | 9241 W AVENUE A | | ROSAMOND | CA | 93560-7083 |
| THOMAS HOST | 3170 N BUTTERCUP CIR | | FREDERICK | CO | 80516-9456 |
| THOMAS HOUCHEN | 19800 GASKELL RD | | ROSAMOND | CA | 93560-7245 |
| THOMAS HOUCHEN | 19800 GASKELL RD | | ROSAMOND | CA | 93560-7245 |
| THOMAS HUGHES | 303 N BUENA VISTA ST | APT 107 | BURBANK | CA | 91505-3669 |
| THOMAS KEOGH | 15635 FERNVIEW ST | | WHITTIER | CA | 90604-3338 |
| THOMAS L. SCHUDER | 50260 85TH STREET W | | LANCASTER | CA | 93536 |
| THOMAS LA MOUREAUS | 2091 N ST BONITA LN | | CASA GRANDE | AZ | 85122-6541 |
| THOMAS LUCAS | 20336 BASSETT ST | | WINNETKA | CA | 91306-3506 |
| THOMAS MASTIN | 2660 PEARBLOSSOM HWY | | PALMDALE | CA | 93550-9519 |
| THOMAS MC INTOSH | 6201 N 16TH ST APT 105 | | PHOENIX | AZ | 85016-1751 |
| THOMAS MURPHY | 2135 N OXNARD BLVD | | OXNARD | CA | 93036-2362 |
| THOMAS PALUMBO | 1169 CURRY VILLAGE CT | | MERCED | CA | 95340-0696 |
| THOMAS ROSQUIN | 6464 FAVORITO AVE | | ROSAMOND | CA | 93560-6253 |
| THOMAS SEELING | 1476 DOWNING CT | | CORONA | CA | 92882-4776 |
| THOMAS TAYLOR | PO BOX 1450 | | ROSAMOND | CA | 93560-1450 |
| THOMAS VEGA | 3139 E GAINSBOROUGH RD | | ORANGE | CA | 92869-5137 |
| THOMAS WARWICK | PO BOX 454 | | COTTAGE GROVE | OR | 97424-0018 |
| THOMAS WERNER | 4210 COLUMBIA RD STE 4A | | MARTINEZ | GA | 30907-0403 |
| THOMAS WILLIAM R / THOMAS DEBI S | 46126 20TH ST E | | LANCASTER | CA | 93535-6003 |
| THOMPSON ROLAND S / THOMPSON MARCIA L | 50653 60TH ST W | | LANCASTER | CA | 93536-9551 |
| THORO RACE MGMT INVESTMENTS INC | 1436 GLENGARRY RD | | PASADENA | CA | 91105-1331 |
| THRIFTY PAYLESS INC | PO BOX 3165 | | HARRISBURG | PA | 17105-3165 |
| THU KHINPHYU | 10000 JACKSON AVE | | SOUTH GATE | CA | 90280-6404 |
| TIA HUIE | 818 E 109TH ST | | LOS ANGELES | CA | 90059-1016 |
| TIBOR DOBRANSZKY | 8502 ALLENWOOD RD | | LOS ANGELES | CA | 90046-1005 |
| TIEDE EUGENE L | 3147 E LANCASTER BLVD | | LANCASTER | CA | 93535-7719 |
| TIEDE EUGENE L | 3147 E LANCASTER BLVD | | LANCASTER | CA | 93535-7719 |
| TIM NAM | PO BOX 6685 | | ROSEMEAD | CA | 91770-6685 |
| TIM RICE | 2315 E PALMDALE BLVD STE G PMB A-31 | | PALMDALE | CA | 93550-4959 |
| TIM WHEELER | 28827 LONGVIEW RD | | PEARBLOSSOM | CA | 93553-3403 |
| TIMOTHY COYLE | 10714 YUCCA AVE | | ROSAMOND | CA | 93560-7516 |
| TIMOTHY JOHNSON | 6754 E LOWE AVE | | FRESNO | CA | 93727-5823 |
| TIMOTHY LUCKS | 24315 TAMARISK AVE | | BORON | CA | 93516-1349 |
| TIMOTHY MULTHAUPT | 3323 W FAIRCREST DR | | ANAHEIM | CA | 92804-3014 |
| TIMOTHY OCONNOR | 37502 10TH ST W | | PALMDALE | CA | 93551-7702 |
| TIMPLE SANTIAGO A / TIMPLE LUCITA V | 7635 W AVENUE G | | LANCASTER | CA | 93536-8620 |
| TIMUR TSKHVEDIANI | 9141 TOBIAS AVE # B | | VAN NUYS | CA | 91402-1254 |
| TINA DRIVDAHL | 41118 RIMFIELD DR | | PALMDALE | CA | 93551-1843 |
| TINA HATCHER | 7005 E AVENUE G4 | | LANCASTER | CA | 93535-7847 |
| TODD FINK | 24261 CHAPARRAL AVE | | BORON | CA | 93516-1305 |
| TODD LITTRELL | 3678 SUNSET VALLEY RD | | MOORPARK | CA | 93021-9747 |
| TODD MOESSNER | 24262 SAGE AVE | | BORON | CA | 93516-1334 |
| TODD SHAW | 7202 DAWN RD | | ROSAMOND | CA | 93560-6458 |
| TOLEDO NOE / TOLEDO OLGA | 10541 E AVENUE H | | LANCASTER | CA | 93535-8501 |

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| TOM BOURAS | 2307 RICHLAND AVE | | LOS ANGELES | CA | 90027-1343 |
| TOM LOFFLER | PO BOX 67 | | ROSAMOND | CA | 93560-0067 |
| TOM ROSS | PO BOX 86 | | VALYERMO | CA | 93563-0086 |
| TOMAS CARREON | 6210 E AVENUE E | | LANCASTER | CA | 93535-7854 |
| TOMAS CARREON | 6210 E AVENUE E | | LANCASTER | CA | 93535-7854 |
| TOMAS PULIDO | 24360 CHAPARRAL AVE | | BORON | CA | 93516-1308 |
| TOMASA ESCOBAR | 3270 W 83RD ST | | ROSAMOND | CA | 93560 |
| TOMBLIN AND ASSOCIATES | 2501 W 237TH ST | STE E | TORRANCE | CA | 90505-5227 |
| TOMMY CASINGAL | 3005 KIPPER COURT | | LANCASTER | CA | 93535 |
| TOMMY HESTER | 1949 ROYALTY DR | | POMONA | CA | 91767-3023 |
| TOMMY WALKER | 1941 E HUBER ST | | MESA | AZ | 85203-3936 |
| TONI RABANI | 1727 W 1ST ST | | SAN PEDRO | CA | 90732-3106 |
| TONI WEBB | 1561 MUSTANG DR | | HENDERSON | NV | 89002-8744 |
| TONY HEWITT | 512 SIERRA AVE | | MOORPARK | CA | 93021-1732 |
| TONY JARJOURA | 4409 HONEYSUCKLE LN | | COHUTTA | GA | 30710-9317 |
| TONY LIPAROTE | 14731 LAKEMONT RD | | LAKE HUGHES | CA | 93532-1322 |
| TONYA RYKEN | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| TOPOR ELIZABETH A | 22927 W AVENUE D | | LANCASTER | CA | 93536-9263 |
| TORRES MIGUEL / TORRES DIANE | 46208 30TH ST E | | LANCASTER | CA | 93535-7611 |
| TRACEY ROY G SR / TRACEY WANDA R | 46602 20TH ST E | | LANCASTER | CA | 93535-6013 |
| TRACY HART | 1682 60TH ST W | | ROSAMOND | CA | 93560-6957 |
| TRACY LETHGO | PO BOX 1557 | | ROSAMOND | CA | 93560-1557 |
| TRACY PRITCHARD | 8029 HAZEL AVE | | ORANGEVALE | CA | 95662-2104 |
| TRACY THOMPSON | 6723 GASKELL RD | | ROSAMOND | CA | 93560-7132 |
| TRAVERS DAVID / TRAVERS JOYCE L | 2802 EL CABALLO AVE | | BAKERSFIELD | CA | 93304-6220 |
| TRAVIS BELL | 601 5TH AVE | | SCOTTSBLUFF | NE | 69361-3581 |
| TRAVIS DAY | 25907 CHERRYHILL DR | | BORON | CA | 93516-1204 |
| TRAVIS MARKLEY | PO BOX 1612 | | ROSAMOND | CA | 93560-1612 |
| TREMBLAY WALDEN | PO BOX 1910 | | ROSAMOND | CA | 93560-1910 |
| TRENOUTH | 8716 W AVENUE E STE D6 | | LANCASTER | CA | 93536 |
| TRIBUZI JAMES / TRIBUZI ELSY | 48721 227TH ST W | | LANCASTER | CA | 93536-9108 |
| TRIMARK PACIFIC LANCASTER | PO BOX 470 | | AGOURA HILLS | CA | 91376-0470 |
| TRINA HOGE | 20722 WHITE ST | | TEHACHAPI | CA | 93561-8713 |
| TRINIDAD MORENO | 45044 28TH ST E SPC 10 | | LANCASTER | CA | 93535-2818 |
| TRISHA SPEARS | 24314 SAGE AVE | | BORON | CA | 93516-1336 |
| TROY GREEN | 42450 12TH ST W | | LANCASTER | CA | 93534-7082 |
| TRUE HOLINESS CHURCH OF GOD | 6019 DEVONSHIRE DR | | PALMDALE | CA | 93551-1637 |
| TRUPP STEVEN R | 47616 DIVISION ST | | LANCASTER | CA | 93535-6502 |
| TRUST HOLDING SERVICE COMPANY TR | PO BOX 3836 | | CHATSWORTH | CA | 91313-3836 |
| TSANGCHI CHEN | 19970 SCOTLAND DR | | SARATOGA | CA | 95070-5035 |
| TU PHAM | 325 S VICKI LN | | ANAHEIM | CA | 92804-2031 |
| TUAN VO | 3236 GRANADA AVE | | EL MONTE | CA | 91731-3328 |
| TUCKER MARGARET M | 42658 70TH ST E | | PALMDALE | CA | 93552-1100 |
| TUNSTEN LLC | 10100 SANTA MONICA BLVD STE 2430 | | LOS ANGELES | CA | 90067-4141 |
| TURNER GREGORY W / TURNER STEPHANIE R | 30510 101ST ST E | | JUNIPER HILLS | CA | 93543-3666 |
| TWO BOYS LLC AND | 2025 E PALMDALE BLVD | | PALMDALE | CA | 93550-4036 |
| TY NGUYEN | 12314 MAILY MEADOWLANE | | SUGAR LAND | TX | 77478-6170 |
| TYE LOCKARD | 5588 WILLOW AVE | | ROSAMOND | CA | 93560-6731 |
| TYLER BECK | 27600 HARNESS DR | | TEHACHAPI | CA | 93561-6360 |
| TYLER CHARLES W / TYLER BEVERLY A | 18245 LANCASTER RD | | LANCASTER | CA | 93536-9020 |
| TYRONE JONES | 39468 AVIGNON LN | | PALMDALE | CA | 93551 |
| U S BANK NATIONAL ASSN TR | 800 STATE HIGHWAY 121 BYP | | LEWISVILLE | TX | 75067-4180 |
| UBS REAL ESTATE SECURITIES INC | 3476 STATEVIEW BLVD | | FORT MILL | SC | 29715-7203 |
| UJU OGUINE | 11733 KILLIMORE AVE | | NORTHRIDGE | CA | 91326-1511 |
| UKWAMEDUA MARIAN U TRUST | 9110 1/2 LEMONA AVE | | NORTH HILLS | CA | 91343-7818 |
| ULLMAN PAUL S / ULLMAN LYNN S | 7128 W AVENUE D8 | | LANCASTER | CA | 93536-8814 |
| UMSTED FAMILY TRUST | PO BOX 5 | | BORON | CA | 93596-0005 |
| UNION DISCOUNTS LTD | 3700 WILSHIRE BLVD STE 990 | | LOS ANGELES | CA | 90010-3089 |
| UNITED PRINCIPAL INVESTMENT | 47655 WARM SPRINGS BLVD | | FREMONT | CA | 94539-7490 |
| US BANK | 10790 RANCHO BERNARDO RD | | SAN DIEGO | CA | 92127-5705 |
| US DISTRESSED MTG FUND LLC | 1201 24TH ST | | BAKERSFIELD | CA | 93301-2300 |
| VALARO MORRIS | 24196 TAMARISK AVE | | BORON | CA | 93516-1346 |
| VALENCIA ERLINDA / TRUPP STEVEN R | 506 W AVENUE F | | LANCASTER | CA | 93534-7505 |
| VALENZUELA JOEL R / VALENZUELA LENA N | 126 E AVENUE E STE A | | LANCASTER | CA | 93535-6508 |
| VALENZUELA JOEL R / VALENZUELA LENA N | 126 E AVENUE E STE B | | LANCASTER | CA | 93535-6509 |
| VALENZUELA JOEL R / VALENZUELA LENA N | 126 E AVENUE E STE C | | LANCASTER | CA | 93535-6510 |
| VALENZUELA JOEL R / VALENZUELA LENA N | 126 E AVENUE E # D | | LANCASTER | CA | 93535-6507 |
| VALERIE MARLOW | 19859 SANDPIPER PL UNIT 115 | | NEWHALL | CA | 91321-4302 |
| VALERIE MARLOW | 1235 SOLEDAD CANYON RD | | ACTON | CA | 93510-2402 |
| VALERIE MARTINEZ | 775 65TH ST W | | ROSAMOND | CA | 93560-7224 |
| VALERIO CARLOS / VALERIO FLOR M | 39532 VICKER WAY | | PALMDALE | CA | 93551-1024 |
| VALLEY ANTELOPE | 2315 E PALMDALE BLVD STE G | | PALMDALE | CA | 93550-4959 |
| VAN DEREYK CORNELIS / VAN DEREYK /TR | 46723 65TH ST E | | LANCASTER | CA | 93535-7810 |
| VAN HARRALD | PO BOX 252 | | BORON | CA | 93596-0252 |
| VAN NORMAN | 736 80TH ST W | | ROSAMOND | CA | 93560-7025 |
| VANANH NGUYEN | 580 SOBRATO DR | | CAMPBELL | CA | 95008-4620 |
| VANCE POMEROY | 29319 121ST ST E | | JUNIPER HILLS | CA | 93543-4204 |
| VANDAM DELMAR | 7304 E AVENUE F | | LANCASTER | CA | 93535-7823 |
| VANDIVER MARK R / VANDIVER DEBRA | 44001 100TH ST E | | LANCASTER | CA | 93535-8423 |
| VANGURI RAO / VANGURI SWARNA | 40812 SLATE CT | | PALMDALE | CA | 93551-1805 |
| VASSILEV WILLIAM | 9365 W AVENUE I | | LANCASTER | CA | 93536-8010 |
| VELDE VAN DE | 6741 LINCOLN AVE SPC 124 | | BUENA PARK | CA | 90620-5649 |
| VELEZ VICTORIA / VELEZ SANDY | 922 E 43RD PL | | LOS ANGELES | CA | 90011-3512 |
| VENUS MCCARY | 1757 TAPO CANYON RD | | SIMI VALLEY | CA | 93063-3391 |
| VERA ALVISO | PO BOX 1268 | | ROSAMOND | CA | 93560-1268 |
| VERA SHEPHARD | PO BOX 2504 | | ROSAMOND | CA | 93560-2504 |
| VERA STEWART | 24969 MULHOLLAND HWY | | CALABASAS | CA | 91302-2366 |

| | | | | | |
|---|---|---|---|---|---|
| VERA STOVER | 24224 TAMARISK AVE | | BORON | CA | 93516-1348 |
| VERDIE PENN | PO BOX 570 | | LITTLEROCK | CA | 93543-0570 |
| VERL BUTLER | 5675 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-6263 |
| VERN PERRY | 5528 LENORE AVE | | ARCADIA | CA | 91006-5737 |
| VERNA TIPTON | PO BOX 754 | | ROSAMOND | CA | 93560-0754 |
| VERNEDA TILLIS | PO BOX 882 | | LITTLEROCK | CA | 93543-0882 |
| VERNON BEAZEL | 9740 E AVENUE G10 | | LANCASTER | CA | 93535-8425 |
| VERNON DENNY | PO BOX 954 | | MORRISON | CO | 80465-0954 |
| VERNON MULLINS | 115 90TH ST W | | ROSAMOND | CA | 93560-7019 |
| VERONICA FIORELLA | 900 BIRMINGHAM RD | | BURBANK | CA | 91504-1911 |
| VERONICA MUCHMORE | 8409 RADIANT WAY | | LAKE ISABELLA | CA | 93240-9772 |
| VICENTE MURILLO | 10425 DALEROSE AVE | | INGLEWOOD | CA | 90304-1836 |
| VICKI BELL | 44149 BEGONIA ST | | LANCASTER | CA | 93535 |
| VICKI MOFFET | PO BOX 106 | | MANHATTAN | MT | 59741-0106 |
| VICKI STEIN | 2904 LA JARA RD | | ROSWELL | NM | 88201-9124 |
| VICKIE GALE | PO BOX 44 | | ROSAMOND | CA | 93560-0044 |
| VICTOR CARRASCO | 4837 WATT AVE | | NORTH HIGHLANDS | CA | 95660-5108 |
| VICTOR ESCOBAR | PO BOX 41 | | LEBEC | CA | 93243-0041 |
| VICTOR HAMMAN | 4601 SWEETSER RD | | ROSAMOND | CA | 93560-6454 |
| VICTOR KUDELKA | 4160 SUNNYSIDE RD | | SANDPOINT | ID | 83864-8074 |
| VICTOR NERIA | 1501 SUMMIT CIR | | FULLERTON | CA | 92833-1716 |
| VICTOR TRUJILLO | 419 E MAITLAND ST | | ONTARIO | CA | 91761-3316 |
| VICTOR ZUNO | 25186 PATTERSON RD | | LANCASTER | CA | 93536-9606 |
| VICTORIA HANLEY | PO BOX 446 | | RIO LINDA | CA | 95673-0446 |
| VICTORIA MARQUEZ | 809 W 149TH ST | | GARDENA | CA | 90247-2730 |
| VICTORIA STAHOVICH | 2638 57TH ST W | | ROSAMOND | CA | 93560-7254 |
| VICTORIA TALAMO | 42335 50TH ST W STE 101 | | QUARTZ HILL | CA | 93536-3528 |
| VIDRIO CELIA / GARCIA JULIO V | 16645 VALENCIA AVE | APT 1B | FONTANA | CA | 92335-0317 |
| VILLASENOR CESAR Q / VILLASENOR TOMASA | 43201 70TH ST E | | LANCASTER | CA | 93535-8615 |
| VINCENT ROULEAU | 11137 W ROSAMOND BLVD | | ROSAMOND | CA | 93560-7507 |
| VINH DANG | 8021 LUBAO AVE | | WINNETKA | CA | 91306-1930 |
| VIOLA CRABB | 310 S 11TH PL | | ROGERS | AR | 72756-4251 |
| VIOLETA MONTOYA | 2190 STRANG AVE | | SAN LEANDRO | CA | 94578-1144 |
| VIOLETA UNABIA | 1841 S WOOSTER ST | | LOS ANGELES | CA | 90035-4334 |
| VIRGINIA CORDOVA | PO BOX 1145 | | ROSAMOND | CA | 93560-1145 |
| VIRGINIA FARLEY | PO BOX 247 | | PEARBLOSSOM | CA | 93553-0247 |
| VIRGINIA FORREST | 24483 SAGE AVE | | BORON | CA | 93516-1337 |
| VIRGINIA GUTIERREZ | 2081 60TH ST W | | ROSAMOND | CA | 93560-6561 |
| VIRGINIA KELLEY | 30558 MAINMAST DR | | AGOURA | CA | 91301-1909 |
| VIRGINIA MATSUI | 325 S BOYLE AVE | | LOS ANGELES | CA | 90033-3812 |
| VIRGINIA RAMOS | 4708 MERCANTILE DR | | FORT WORTH | TX | 76137-3605 |
| VIRGINIA REED | 4697 GIBBS AVE | | MOJAVE | CA | 93501-7216 |
| VITAL ORTEGA JUAN R / VITAL CARMEN | 9627 W AVENUE B | | LANCASTER | CA | 93536-9420 |
| VIVIAN CELENTANO | PO BOX 1083 | | ROSAMOND | CA | 93560-1083 |
| VLAD HIKIN | 12330 OSBORNE ST UNIT 76 | | PACOIMA | CA | 91331-2043 |
| W MILLHOLLIN | 8758 E BARSTOW AVE | | CLOVIS | CA | 93619-9231 |
| W PENGILLEY | PO BOX 952 | | ROSAMOND | CA | 93560-0952 |
| WACHOVIA BANK TR | 3476 STATEVIEW BLVD # 7801 013 | | FORT MILL | SC | 29715-7203 |
| WAGENBACH WALTRAUD | 320 W TEMPLE ST | FL 8 | LOS ANGELES | CA | 90012-3286 |
| WAKEFIELD RANDALL T | 28556 CRUTHERS CREEK RD | | PEARBLOSSOM | CA | 93553-3423 |
| WALKER GARY P / WALKER LADONNA | 505 S VILLA REAL STE 204 | | ANAHEIM | CA | 92807-3442 |
| WALKER GEORGE / WALKER AUDREY | 36948 165TH ST E | | LLANO | CA | 93544-1138 |
| WALTER EASLER | 5933 HOLIDAY AVE | | ROSAMOND | CA | 93560-6562 |
| WALTER GRABE | PO BOX 57 | | PEARBLOSSOM | CA | 93553-0057 |
| WALTER HEALY | PO BOX 2425 | | ROSAMOND | CA | 93560-2425 |
| WALTER KUENTZ | 13451 W AVENUE A | | ROSAMOND | CA | 93560-7290 |
| WALTER LAMB | 13038 W SUMMER POPPY ST | | TUCSON | AZ | 85743-7273 |
| WALTER LANEY | 12650 INGENUITY DR | | ORLANDO | FL | 32826-2703 |
| WALTER MCCALMAN | 6633 W AVENUE H10 | | LANCASTER | CA | 93536-8414 |
| WALTER MCCALMAN | 6633 W AVENUE H10 | | LANCASTER | CA | 93536-8414 |
| WANDA BEALE | PO BOX 1850 | | ROSAMOND | CA | 93560-1850 |
| WANDA KYLE | 12345 E AVENUE J | | LANCASTER | CA | 93535-8704 |
| WANDA METTER | 3151 E AVENUE H | | LANCASTER | CA | 93535-1607 |
| WANDA STRUTH | 44838 70TH ST E | | LANCASTER | CA | 93535-8312 |
| WANICHA WILLIAMS | 2504 SWAINSONS HAWK ST | | STOCKTON | CA | 95209-4277 |
| WARD JAMES E / WARD ROCILLE M | 6107 W AVENUE G | | LANCASTER | CA | 93536-8507 |
| WARREN BELL | 3955 OLYMPIAD DR | | VIEW PARK | CA | 90043-1131 |
| WASHINGTON MUTUAL BANK FA | 7255 BAYMEADOWS WAY | | JACKSONVILLE | FL | 32256-6851 |
| WATERS JOHN R | 2866 W AVENUE F | | LANCASTER | CA | 93536-9510 |
| WATSON ANTHONY F | 6363 W AVENUE H | | LANCASTER | CA | 93536-8330 |
| WATSON BARRY / WATSON MARIA C | 31375 208TH ST E | | LLANO | CA | 93544-1581 |
| WATSON CLARK / WATSON DARLENE | 48823 100TH ST E | | LANCASTER | CA | 93535-7919 |
| WATSON JUDITH A | 46460 KINGS CANYON RD | | LANCASTER | CA | 93536-9074 |
| WATTS BRENDA J | 11660 CHURCH ST | APT 282 | RCH CUCAMONGA | CA | 91730-8934 |
| WAYNE HAND | PO BOX 431 | | ROSAMOND | CA | 93560-0431 |
| WAYNE ROWLEY | 6588 BRABHAM AVE | | ROSAMOND | CA | 93560 |
| WAYNE SCOTT | 2263 BUSS CT | | ROSAMOND | CA | 93560-5939 |
| WAYNE WIRT | PO BOX 253 | | LLANO | CA | 93544-0253 |
| WEALTHPOINT EQUITY VENTURES GR | 9135 RESEDA BLVD STE A # 235 | | NORTHRIDGE | CA | 91324-3050 |
| WELLS FARGO | 1270 NORTHLAND DR STE 200 | | MENDOTA HEIGHTS | MN | 55120-1176 |
| WELLS FARGO BANK NA | 1820 E 1ST ST STE 220 | | SANTA ANA | CA | 92705-4063 |
| WELLS MICHAEL / WELLS JANICE | 9663 W AVENUE I | | LANCASTER | CA | 93536-8005 |
| WEN JAVIER | 849 LEHIGH AVE | | CHULA VISTA | CA | 91913-2714 |
| WENDI WASHINGTON | 18930 SATICOY ST | | RESEDA | CA | 91335-1759 |
| WENDY BAILEY | PO BOX 1525 | | LITTLEROCK | CA | 93543-5525 |
| WENDY WELBORN | 24136 JUNIPER AVE | | BORON | CA | 93516-1328 |
| WENTWORTH WOODYE | 4161 DON JOSE DR | | LOS ANGELES | CA | 90008-2805 |

| | | | | | |
|---|---|---|---|---|---|
| WERNER FRED / WERNER KAREN | 49408 85TH ST W | | LANCASTER | CA | 93536-9444 |
| WERTH NORMAN S / WERTH MARGARET A | 48881 190TH ST W | | LANCASTER | CA | 93536-9081 |
| WES BUTLER | 8847 W AVENUE C14 | | LANCASTER | CA | 93536-9435 |
| WESLEY GEIGER | 7963 ROLAND AVE | | ROSAMOND | CA | 93560-7057 |
| WEST JEROMEC / WEST JAMES T | 4308 W AVENUE A | | ROSAMOND | CA | 93560-7108 |
| WEST ROBERT O / REYES MAGDALENA | 2329 EVENING PRIMROSE AVE | | PALMDALE | CA | 93551-4184 |
| WESTERN PACIFIC HOUSING INC | 21300 VICTORY BLVD STE 700 | | WOODLAND HLS | CA | 91367-7726 |
| WHEELER RUSSELL / WHEELER MARIA M | 9045 E AVENUE E | | LANCASTER | CA | 93535-7936 |
| WHITEHOUSE RICHARD L | WHITEHOUSE SHEILA W | 30401 104TH ST E | LITTLEROCK | CA | 93543-3613 |
| WHITESIDE EARL D | 45408 160TH ST W | | LANCASTER | CA | 93536-9038 |
| WILFREDO ORANTES | 284 55TH ST W | | ROSAMOND | CA | 93560-6525 |
| WILFREDO SEVILLA | 36050 32ND ST E | | PALMDALE | CA | 93550-9213 |
| WILFREDO VELAZQUEZ | 30700 106TH ST E | | LITTLEROCK | CA | 93543-3640 |
| WILKINS MARK E | PO BOX 418 | | LITTLEROCK | CA | 93543-0418 |
| WILLAIM BALTZER | 3437 BONNIE HILL DR | | LOS ANGELES | CA | 90068-1325 |
| WILLARD SLONEY | 22510 E AVENUE Q | | PALMDALE | CA | 93591-4708 |
| WILLETTA MAUPIN | PO BOX 900007 | | PALMDALE | CA | 93590-0007 |
| WILLEY | 5792 TEHACHAPI WILLOW SPRINGS RD | | ROSAMOND | CA | 93560-7521 |
| WILLIAM BORN | PO BOX 1908 | | ROSAMOND | CA | 93560-1908 |
| WILLIAM BOWER | 5531 CHARAN RD | | ROSAMOND | CA | 93560-6952 |
| WILLIAM BRANES | 27011 BARNES RANCH RD | | LANCASTER | CA | 93536-9713 |
| WILLIAM BRIDE | 5330 SULTANA AVE | | TEMPLE CITY | CA | 91780-3049 |
| WILLIAM CHASTEEN | PO BOX 2638 | | BEVERLY HILLS | CA | 90213-2638 |
| WILLIAM CORDOVA | PO BOX 1145 | | ROSAMOND | CA | 93560-1145 |
| WILLIAM COZBY | PO BOX 1 | | VALYERMO | CA | 93563-0001 |
| WILLIAM DOUTHITT | PO BOX 55214 | | VALENCIA | CA | 91385-0214 |
| WILLIAM DRIVDAHL | 41118 RIMFIELD DR | | PALMDALE | CA | 93551-1843 |
| WILLIAM EDMONDS | 3601 REDLANDS DR | | BAKERSFIELD | CA | 93306-2123 |
| WILLIAM FORREST | 24483 SAGE AVE | | BORON | CA | 93516-1337 |
| WILLIAM GUTIERREZ | 10332 MAYBROOK AVE | | WHITTIER | CA | 90603-2619 |
| WILLIAM HASTINGS | 6359 SWEETSER RD | | ROSAMOND | CA | 93560-6555 |
| WILLIAM HAYES | 33456 STEELE ST | | AGUA DULCE | CA | 91390-2728 |
| WILLIAM HEFFERNAN | PO BOX 165 | | PEARBLOSSOM | CA | 93553-0165 |
| WILLIAM HITT | 78-1056 BISHOP RD | | HOLUALOA | HI | 96725-9700 |
| WILLIAM JENNINGS | PO BOX 2354 | | ROSAMOND | CA | 93560-2354 |
| WILLIAM KIPP | PO BOX 35508 | | SAN DIEGO | CA | 92163 |
| WILLIAM KOOKEN | PO BOX 385 | | PEARBLOSSOM | CA | 93553-0385 |
| WILLIAM LA ROUX | 1854 N CARLSBAD ST | | ORANGE | CA | 92867-3367 |
| WILLIAM LEWIS | 887 VIA MANZANAS | | SAN LORENZO | CA | 94580-2835 |
| WILLIAM MAYNARD | 1333 HIDALGO CIR | | ROSEVILLE | CA | 95747-7238 |
| WILLIAM MC LAIN | PO BOX 1909 | | ROSAMOND | CA | 93560-1909 |
| WILLIAM MCAFEE | 46047 100TH ST E | | LANCASTER | CA | 93535-8422 |
| WILLIAM MILLER | 12401 EL MIRAGE ST | | BORON | CA | 93516-1318 |
| WILLIAM MILLER | 27095 JEROME ST | | BORON | CA | 93516-1631 |
| WILLIAM MOORE | 7801 GALLUP DR | | BAKERSFIELD | CA | 93309-7537 |
| WILLIAM MOORE | 7801 GALLUP DR | | BAKERSFIELD | CA | 93309-7537 |
| WILLIAM SAUNDERS | 823 FORESTON DR | | ACTON | CA | 93510-1837 |
| WILLIAM SHOOP | PO BOX 3452 | | EL SEGUNDO | CA | 90245-8591 |
| WILLIAM SIFFERMAN | 5308 W AVENUE L6 | | QUARTZ HILL | CA | 93536-4444 |
| WILLIAM SLATTERY | 2701 LOKER AVE W STE 140 | | CARLSBAD | CA | 92010-6637 |
| WILLIAM STAROSTKA | 39166 240TH ST E | | PALMDALE | CA | 93591-4700 |
| WILLIAM UTVICH | PO BOX 367 | | ROSAMOND | CA | 93560-0367 |
| WILLIAM WHEELER | 1204 E SANTA PAULA ST | | SANTA PAULA | CA | 93060-2237 |
| WILLIAM WOODS | 180 CABRINI BLVD APT 19 | | NEW YORK | NY | 10033-1147 |
| WILLIAMS JEFFERSON N | WILLIAMS NATASHA A | 13200 DOTY AVE APT 205 | HAWTHORNE | CA | 90250-6253 |
| WILLIAMS MARIA A | 23415 W AVENUE C | | LANCASTER | CA | 93536-9289 |
| WILLIAMS MARY O | 18300 E AVE S | | PALMDALE | CA | 93591 |
| WILLIAMS NANETTE | 11030 CIMA MESA RD | | LITTLEROCK | CA | 93543-3606 |
| WILLIS HADDOX | 12721 JUNIPER HILLS RD | | PEARBLOSSOM | CA | 93553-3452 |
| WILLOW SPRINGS CO | 4040 MANLY RD | | ROSAMOND | CA | 93560-6930 |
| WILMA ODELL | 861 W BARREL SPRINGS RD | | PALMDALE | CA | 93551-7916 |
| WILMA REASOR | 38909 180TH ST E | | PALMDALE | CA | 93591-3500 |
| WILSON | 24333 JOSHUA AVE | | BORON | CA | 93516-1324 |
| WILSON | 12165 DEL ORO ST | | BORON | CA | 93516-1357 |
| WILSON ANDREW J / WILSON TRUST | 40801 SLATE CT | | PALMDALE | CA | 93551-1805 |
| WILSON JOHN J SR | 47815 40TH ST W | | LANCASTER | CA | 93536-9568 |
| WILSON LEE JR / WILSON DONNA L | 18130 W AVENUE F | | LANCASTER | CA | 93536-9058 |
| WILSON PLUMMER | PO BOX 6194 | | LANCASTER | CA | 93539-6194 |
| WINIFRED OLIVER | 12428 EL MIRAGE ST | | BORON | CA | 93516-1319 |
| WINONA QUIRK | 36517 HAROLD FIRST ST | | PALMDALE | CA | 93550-9347 |
| WINSTON MADALE | 7485 NEW HORIZON WAY BLDG 3 | | FREDERICK | MD | 21703-8388 |
| WINTER LONNIE E | 30100 235TH ST E | | LLANO | CA | 93544-1519 |
| WINTERS RAE E; JANET L | WINTERS RAE; JANET /TR | 51260 100TH ST W | ROSAMOND | CA | 93560-7165 |
| WINTRESS BRYANT | 1103 E GLADWICK ST | | CARSON | CA | 90746-3824 |
| WM TIERNEY | 24315 SAGE AVE | | BORON | CA | 93516-1335 |
| WOLAK MICHAEL A | 2827 W PILLSBURY ST | | LANCASTER | CA | 93536-6499 |
| WOLFE JAMES D / WOLFE DAWN | 4118 E AVENUE I | | LANCASTER | CA | 93535-8239 |
| WOLFESNTEIN JOHN / WOLFESNTEIN JAMIE | 5816 AVENIDA ESPLENDIDA | | PALMDALE | CA | 93551-1188 |
| WOOD RICHARD / WOOD VIVIAN | 4100 WATERVILLE CT | | PALMDALE | CA | 93551-5383 |
| WOOD RICHARD A | 45763 90TH ST E | | LANCASTER | CA | 93535-8402 |
| WOODIE SAVAGE | 12415 SIERRA VIEW ST | | BORON | CA | 93516-1344 |
| WOODS JOHN A ; BETHEL I / WOODS FAMILY | 46047 20TH ST E | | LANCASTER | CA | 93535-6002 |
| WOODWARD DEBRA S | 2017 W AVENUE K10 | | LANCASTER | CA | 93536-4608 |
| WOOLFORK ROBERT C / WOOLFORK RUTH P | 47459 27TH ST W | | LANCASTER | CA | 93536-9570 |
| WORLEY EDWARD L | 11866 JUNIPER HILLS RD | | LITTLEROCK | CA | 93543-4207 |
| WORRELL ELIZABETH A / WORRELL ROBERT C | 51310 280TH ST W | | LANCASTER | CA | 93536-9238 |
| XEROX LEASE EQUIPMENT LLC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |

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|---|---|---|---|---|---|
| YAHRAUS BILL / YAHRAUS ; ROSENTHAL /TR | 11300 MANZANITA MESA RD | | LITTLEROCK | CA | 93543-4229 |
| YALE/CHASE MATERIALS HANDLING INC | PO BOX 6333 | | MAGNA | UT | 84044-6333 |
| YAN TAN | 128 LOOMIS RD | | SOUTH WINDSOR | CT | 06074-3649 |
| YANG LEE | 625 S BERENDO ST APT 205 | | LOS ANGELES | CA | 90005-1737 |
| YANG YANG | 5353 SAN VICENTE BLVD | APT 33 | LOS ANGELES | CA | 90019-2731 |
| YEGANHE JENNIFER L | 44062 42ND ST W | | LANCASTER | CA | 93536-5869 |
| YOGESH GORADIA | 32063 PACIFICA DR | | RANCHO PALOS VERDES | CA | 90275-5763 |
| YOLANDA BENITEZ | 39031 230TH ST E | | PALMDALE | CA | 93591-4707 |
| YOLANDA CHAHIN | 2500 N VERDUGO RD | | GLENDALE | CA | 91208-2337 |
| YOLANDA DREILING | 357 HACIENDA DR | | PALMDALE | CA | 93551-7811 |
| YOLANDA SANCHEZ | 310 W ALONDRA BLVD | | COMPTON | CA | 90220-3713 |
| YOON PARK | 27328 ENGLISH OAK CT | | CANYON COUNTRY | CA | 91387-6869 |
| YOONJI KIM | 10225 HILLHAVEN AVE APT 101 | | TUJUNGA | CA | 91042-3647 |
| YORK ROBERT A / YORK SHARRON | 44758 45TH ST W | | LANCASTER | CA | 93536-7603 |
| YOSEMITE HOLDINGS INC | 500 S GRAND AVE STE 1900 | | LOS ANGELES | CA | 90071-2668 |
| YOUNG OH | 19151 LA QUINTA PL | | APPLE VALLEY | CA | 92308-2700 |
| YOUNGSOOK KIM | 28648 DEER SPRINGS DR | | SANTA CLARITA | CA | 91390-5741 |
| YUNG CHAR | 1115 JARROW AVE | | HACIENDA HTS | CA | 91745-2020 |
| YVONNE ALLISON | 11985 GASKELL RD | | ROSAMOND | CA | 93560-7055 |
| YVONNE MORADO | 1363 RIDGEMONT CT | | OCEANSIDE | CA | 92056-6621 |
| YVONNE MORGAN | 2053 65TH ST W | | ROSAMOND | CA | 93560-6535 |
| ZACK NAIAD / ZACK JEANNETTE | 22110 W AVENUE E11 | | LANCASTER | CA | 93536-9192 |
| ZAHER KHALAF | 18566 DERBY CIR | | HUNTINGTON BEACH | CA | 92648-1565 |
| ZAMRZLA JOHNNY; PAMELLA | ZAMRZLA FAMILY | 48910 80TH ST W | LANCASTER | CA | 93536-8740 |
| ZAPPULLA THERESA C | 3775 ACACIA CT | | PALMDALE | CA | 93551 |
| ZEIDAN JIHAD M | 3346 TWINCREEK CT | | PALMDALE | CA | 93551-1080 |
| ZENEIDA HOUCHEN | 19738 GASKELL RD | | ROSAMOND | CA | 93560-7243 |
| ZENY MINDANAO | 10954 BRADDOCK DR | | CULVER CITY | CA | 90230-4211 |
| ZETTA GRIFFIN | 13855 E WILDCAT WAY | | PRESCOTT VALLEY | AZ | 86315-9731 |
| ZHIHUA SHEN | PO BOX 1661 | | PALO ALTO | CA | 94302-1661 |
| ZIMMERMAN HENRY JR | 3353 W AVENUE C | | LANCASTER | CA | 93536-9500 |
| ZOO YANG | 2530 GREENFIELD AVE | | ARCADIA | CA | 91006-5229 |

# EXHIBIT D

**EXHIBITS B & D: NON-APPEARING PARTIES**

| Name | Answer / Appearance Date | DKT No |
|---|---|---|
| Romo Lake Los Angeles Partnership | 12/8/2005 | |
| Unison Investment, LLC | 1/12/2006 | |
| Landfield, Richard E. | 11/13/2006 | 333 |
| Kaufman, Lilian | 12/20/2006 | 368 |
| Kaufman, Lilian, trustee of Lilian Kaufman Trust | 12/20/2006 | 368 |
| Schwartz, Martin B., trustee of Burroughs Family Trust | 12/21/2006 | 372 |
| Cumming, Ruth A. as Ttee of the Cumming Family Trust | 12/21/2006 | 373 |
| Gabuya, Rodrigo L. | 12/27/2006 | 379 |
| David A, And Dorothy Kagon | 12/27/2006 | 380 |
| Kahlo, Jack D | 12/27/2006 | 382 |
| Gorrindo, Maria B. | 12/27/2006 | 383 |
| Bowers, David L. | 12/28/2006 | 388 |
| Recht, Patricia Anne | 12/28/2006 | 390 |
| Bowers, Ronald E. | 12/28/2006 | 391 |
| Gabrych, Eugene | 12/28/2006 | 392 |
| Gabrych, Marian | 12/28/2006 | 393 |
| Qarmout, Elias | 12/28/2006 | 394 |
| Airtrust Singapore Private | 12/28/2006 | 395 |
| ABC Williams Enterprises, LP | 12/28/2006 | 396 |
| Myers, Marilyn Burgess | 12/28/2006 | 397 |
| Katz, Marianne, trustee of the Katz Trust | 12/29/2006 | 399 |
| Katz, Herbert, trustee of the Katz Trust | 12/29/2006 | 401 |
| Hui, John | 12/29/2006 | 402 |
| United Holdings Corp. | 12/29/2006 | 403 |
| Loving, Robert A. | 12/29/2006 | 404 |
| Riggins, Patricia | 12/29/2006 | 406 |
| Jung, N. Tom | 1/2/2007 | 410 |
| Epsilon Development Co. | 6/25/2007 | |
| Prewoznik, Marilyn J. | 5/22/2007 | 638 |
| Prewoznik, Marilyn J., trustee of Prewoznik Trust | 5/22/2007 | 638 |
| Anaverde LLC | 6/20/2007 | 673 |
| Harris, Steven | 7/9/2007 | 737 |
| Britton Associates LLP | 7/9/2007 | 737 |
| Shokrian, Elias | 7/10/2007 | 741 |
| Bujulian Brothers | 1/8/2008 | 1103 |
| Antelope Valley Country Club | 2/7/2008 | 1173 |
| Cameron Properties | 3/7/2008 | 1218 |
| Gateway Triangle Properties | 9/26/2008 | 2065 |
| Bloom, Melody | 9/13/2008 | 2014 |
| Saloman, Franklin R., trustee Frankie Salomon Trust | 9/23/2008 | 2051 |
| EnXco Development Co | 9/23/2008 | 2054 |
| Eastly, Phillip | 9/24/2008 | 2058 |
| Gillman, Melinda | 9/30/2008 | 2095 |
| Melvin T. & Margaret E. Andrews, trusttees Andrews Trust | 10/3/2008 | 2131 |

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|---|---|---|
| Max Webb Trust | 10/20/2008 | 2161 |
| John and Dora Buruchin | 10/27/2008 | 2196 |
| Robert D. and Shirley B. Raney | 10/27/2008 | 2196 |
| Three Arklin LLC | 10/29/2008 | 2201 |
| Mountain Brook Ranch LLC | 10/29/2008 | 2202 |
| Shakib, Kamram | 12/2/2008 | 2299 |
| Andrews, Franklin | 6/23/2009 | 2923 |
| Andrews, Treba | 6/23/2009 | 2924 |
| Lebata Inc. | 7/8/2009 | 2965 |
| Murphy, Patty | 7/26/2009 | 3011 |
| Balice, Norman | 7/28/2009 | 3013 |
| Balice, Maria | 7/28/2009 | 3013 |
| Chan, Hawk Nin | 9/9/2009 | 3095 |
| Collicut. Ikuko | 9/9/2009 | 3096 |
| Cabahug, Arlene | 9/17/2009 | 3099 |
| Cernicky, Florence, trustee of Cernicky Trust | 10/27/2009 | 3171 |
| Angelo And Dolores M. Cassara, Trustees Cassara Trust | 10/27/2009 | 3171 |
| Gaskell Suntower, LLC | 7/8/2010 | 3689 |
| Arklin Brother Enterprises | 12/21/2010 | 4183 |
| E.C. Wheeler | 3/7/2011 | 4319 |
| Cal Golf Inc. | 12/10/2012 | 5398 |
| Davis, Robert Glen | 7/10/2014 | 9029 |
| Antelope Valley Progressive Club | 8/13/2014 | 9115 |
| Annette And Bennie E. Moore | 9/3/2014 | 9215 |
| M&M Peach Ranch | 10/3/2014 | 9342 |
| Goodyork Corp | 8/6/2015 | 10295 |
| Lancaster Summit Properties, LTD. | 8/6/2015 | 10295 |
| Hooshpack Dev Inc. | 9/28/2015 | 10677 |
| Renassiance Perinatal Medical Group | 9/28/2015 | 10677 |
| Jones, Robert A. | 9/22/2005 | 1 |
| Godde, Forrest | 9/22/2005 | 1 / 411 |
| Calandri, B.J. | 11/28/2005 | 45 / 411 |
| Calandri, Barbara J. | 12/13/2007 | 1068 |
| Godde, Lawrence | 11/28/2005 | 45 / 411 |
| Kootenai Properties | 11/28/2005 | 45 / 411 |
| Kyle, James | 11/28/2005 | 45 / 411 |
| Kyle, Wanda E. | 11/28/2005 | 45 / 411 |
| Hines Family trust | 3/17/2006 | 174 / 411 |
| Malloy Family Partners | 3/17/2006 | 174 / 411 |
| Santoro, Marygrace H. | 3/17/2006 | 174 / 411 |
| Stathatos, Helen | 3/17/2006 | 174 / 411 |
| Stathatos, Savas | 3/17/2006 | 174 / 411 |
| Groven, Dennis L. | 12/1/2006 | 341 / 411 |
| Groven, Majorie E. | 12/1/2006 | 341 /411 |
| Harter, Scott S. | 12/1/2006 | 341 /411 |
| Harter, Kay B. | 12/1/2006 | 341 /411 |
| Javadi, Habod | 12/1/2006 | 341 /411 |

| | | |
|---|---|---|
| Kindig, Beverly A. | 12/1/2006 | 341 / 411 |
| Kindig, Eugene V. | 12/1/2006 | 341 /411 |
| Kindig, Paul S. | 12/1/2006 | 341 /411 |
| Kindig, Sharon R. | 12/1/2006 | 341 /411 |
| Tobias, Beverly | 1/2/2007 | 411 |
| Simi, Leo | 1/2/2007 | 411 |
| William Barnes & Eldora Barnes Fam Trust | 1/2/2007 | 411 |
| Gorrindo Family Trust | 12/10/2010 | 4069 |
| Cameo Ranching Co. | 1/28/2011 | 4250 |
| Kremen, Dr. Samuel | 2/10/2011 | 4270 |
| Son Rise Farms | 1/18/2012 | 4758 |
| Chavez, Luz | 1/18/2012 | 4758 |
| Zomorodi, Ramin | 1/18/2012 | 4758 |
| Genz Development & Castle Ranch Estate | 1/18/2012 | 4758 |
| Barnes, William | 1/18/2012 | 4758 |
| Barnes, Julie | 1/18/2012 | 4758 |
| Gorrindo, Robert | 1/18/2012 | 4758 |
| Gorrindo, Phillip | 1/18/2012 | 4758 |
| Healy Farms | 1/18/2012 | 4758 |
| Nelson, Michael | 1/18/2012 | 4758 |
| Wilson, Harold | 2/6/2012 | 4814 |
| Ritter, Edgar | 11/28/2005 | 45 |
| Paula Ritter | 11/28/2005 | 45 |
| Paula Ritter, as Trustee of the Ritter Family Trust | 11/28/2005 | 45 |
| Mark Ritter, successor trustee of the Ritter Family Trust | 9/3/2015 | 10388 |

# Appendix M
## Acoustical Assessment

ESA

# ACOUSTICAL ASSESSMENT
# for the
# AVEP Project

## Rosamond, California

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**July 6, 2020**

JN 162189

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# DEFINITIONS OF COMMONLY USED TERMS IN NOISE CONTROL

The definitions that follow are in general agreement with those contained in publications of various professional organizations, including the American National Standards Institute (ANSI); the American Society for Testing and Materials (ASTM); the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); the International Organization for Standardization (ISO); and the International Electrotechnical Commission (IEC).

## TERMINOLOGY

**acoustic; acoustical:** *Acoustic* is usually used when the term being qualified designates something that has the properties, dimensions, or physical characteristics associated with sound waves (e.g., acoustic power); *acoustical* is usually used when the term which it modifies does not explicitly designate something that has the properties, dimensions, or physical characteristics of sound (e.g., acoustical material).

**ambient noise:** The all-encompassing noise associated with a given environment at a specified time, usually being a composite of sound from many sources arriving from many directions, near and far; no particular sound is dominant.

**attenuation:** The decrease in level of sound, usually from absorption, divergence, scattering, or the cancellation of the sound waves.

**average sound level** ($L_{eq}$): The level of a steady sound which, in a stated time period and at a stated location, has the same A-weighted sound energy as the time-varying sound. *Unit:* decibel.

**A-weighted sound level** ($L_A$): The sound level measured with a sound-level meter using A-weighting. *Unit*: decibel (dBA).

**background noise:** The total noise from all sources other than a particular sound that is of interest (e.g., other than the noise being measured or other than the speech or music being listened to).

**decibel** (dB): A unit of level which denotes the ratio between two quantities that are proportional to power; the number of decibels correspond to the logarithm (to the base 10) of this ratio. [In many sound fields, the sound pressure ratios are not proportional to the corresponding power ratios, but it is common practice to extend the use of the decibel to such cases. One decibel equals one-tenth of a *bel*.]

**equivalent continuous sound level (average sound level)** ($L_{eq}$): The level of a steady sound which, in a stated time period and at a stated location, has the same A-weighted sound energy as the time-varying sound. *Unit*: decibel (dBA).

**frequency** ($f$): Of a periodic function, the number of times that a quantity repeats itself in one second, i.e., the number of cycles per second. *Unit*: hertz (Hz).

**noise:** Any disagreeable or undesired sound, i.e., unwanted sound.

**noise level:** Same as sound level. Usually used to describe the sound level of an unwanted sound.

**noise reduction** (NR): The difference in sound pressure level between any two points along a path of sound propagation.

**sound**: (1) A change in air pressure that is capable of being detected by the human ear. (2) The hearing sensation excited by a change in air pressure.

**sound level**: Ten times the logarithm to the base 10 of the square of the ratio of the frequency-weighted (and time-averaged) sound pressure to the reference sound pressure of 20 micropascals. The frequency-weightings and time-weighting employed should be specified; if they are not specified, it is understood that A-frequency-weighting is used and that an averaging time of 0.125 is used. *Unit*: decibel (dBA).

# SYMBOLS, ABBREVIATIONS, AND ACRONYMS

ADT.....Average Daily Traffic

ANSI.....American National Standards Institute

AM.....Ante Meridiem

APN.....Assessor's Parcel Number

CEQA.....California Environmental Quality Act

CNEL .....Community Noise Equivalent Level

dB .....decibel

dBA .....A-weighted decibel

EPA .....United States Environmental Protection Agency

FHWA.....Federal Highway Administration

FTA.....Federal Transit Administration

INCE.....Institute of Noise Control Engineering

HVAC .....heating, ventilation, and air conditioning

in/sec .....inches per second

Ldn .....average day/night sound level

Leq.....equivalent sound level

Lmax .....maximum noise level

Lmin.....minimum noise level

Ln.....exceedance level

MPH.....miles per hour

PM .....Post Meridiem

PPV.....peak particle velocity

STC.....sound transmission class

VdB.....velocity decibels

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# EXECUTIVE SUMMARY

The purpose of this Acoustical Assessment is to evaluate potential short- and long-term noise impacts resulting from implementation of the proposed AVEP Solar Project ("Project").

The Project is located within the Antelope Valley, approximately seven miles west of the City of Rosamond, in the southeast potion of unincorporated Kern County. The Antelope Valley is within the western portion of the Mojave Desert and is bounded by the Tehachapi Mountains to the northwest and the San Gabriel Mountains to the southwest. Land uses in the Project area include undeveloped desert, fallow and active agriculture, low-density residences, and energy development (e.g., solar and wind). Noise sources in the Project area consist of periodic vehicle traffic and operation of agricultural equipment.

The Project will construct, operate and eventually decommission two solar photovoltaic (PV) power generating facilities ("Facilities") that would be capable of delivering a total of up to approximately 250 megawatts of alternating current (MW-ac) electricity. The Project consists of two non-contiguous Facilities, the Rabbitbrush Solar Facility (125 MW-ac) and the Chaparral Solar Facility (125 MW-ac) totaling 1,406 acres of private lands in southeastern Kern County.

Temporary Construction Noise. Project implementation would result in potentially increased short-term construction noise levels at nearby sensitive receptors compared to existing conditions. Mitigation measures have been recommended to reduce temporary construction noise levels at off-site receptors.

Long-Term Operational Noise. Long-term operational noise levels from the Project would not exceed Kern County's noise standards.

Cumulative Temporary Impacts. Due to other reasonably foreseeable projects in the surrounding area that may be undergoing construction at the same time, depending upon the precise timing and location of the construction of those other projects, the Project's construction activities could potentially contribute to a cumulative noise impact. Mitigation measures, as noted above, are recommended to reduce the Project's temporary construction noise levels. However, assuming a "worst case scenario" where multiple projects are being constructed at the same time, short-term construction noise generated during Project construction activities may be cumulatively considerable.

Cumulative Long-Term Impacts. Long-term noise levels associated with operation and maintenance of the Project would not exceed Kern County's noise standards. Therefore, the Project would not contribute to a long-term cumulative noise impact.

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# 1.0 INTRODUCTION

The purpose of this Acoustical Assessment is to evaluate potential short- and long-term noise impacts resulting from implementation of the proposed AVEP Solar Project ("Project").

## 1.1 PROJECT LOCATION

The Project site is located approximately seven miles west of the unincorporated community of Rosamond in the western portion of the Antelope Valley, in the northwestern portion of the Mojave Desert. It is located approximately 50 miles southeast of the City of Bakersfield in the Antelope Valley. The region surrounding the Project site – and characteristic of the Antelope Valley – includes open desert, fallow agriculture, active agriculture (irrigated and dry land), low-density residential, transmission infrastructure and renewable energy development refer to Exhibit 1, *Regional Vicinity*. The major north-south route in the region is State Route 14 (SR-14), a four-lane highway located east of the Project site. The major east-west route near the Project site is State Route 138 (SR-138), which is a two-lane road, and intersects with SR-14 approximately eight miles east of the Project area. Other roads serving the Project site include Rosamond Boulevard to the south and 100th Street West to the east. Paved and unpaved roadways, generally following section lines, are located throughout the area.

## 1.2 PROJECT DESCRIPTION

The Project will construct, operate and eventually decommission two solar photovoltaic (PV) power generating facilities that would be capable of delivering a total of up to approximately 250 megawatt alternating current (MW-ac)[1] Megawatt (MW) of electricity. The Project consists of two non-contiguous Facilities, the Chaparral Solar Facility (125 MW-ac) and the Rabbitbrush Solar Facility (125 MW-ac) totaling 1,406 acres of private lands in southeastern Kern County. Refer to Exhibit 2, *Site Vicinity*, for a depiction of the Project boundaries and surrounding uses. The individual Solar Facilities and components of the Project are shown in Exhibits 3a and 3b, *Conceptual Site Plan*. Refer to Exhibit 4, *SCE Interconnection*, for the Project's interconnection to the Southern California Edison (SCE) Whirlwind Substation.

[1] To deliver 250 MW-ac of electricity at the point of interconnection, the Project needs to be overbuilt to address parasitic load, AC system losses, step-up transformer losses and transmission line losses.




Michael Baker INTERNATIONAL

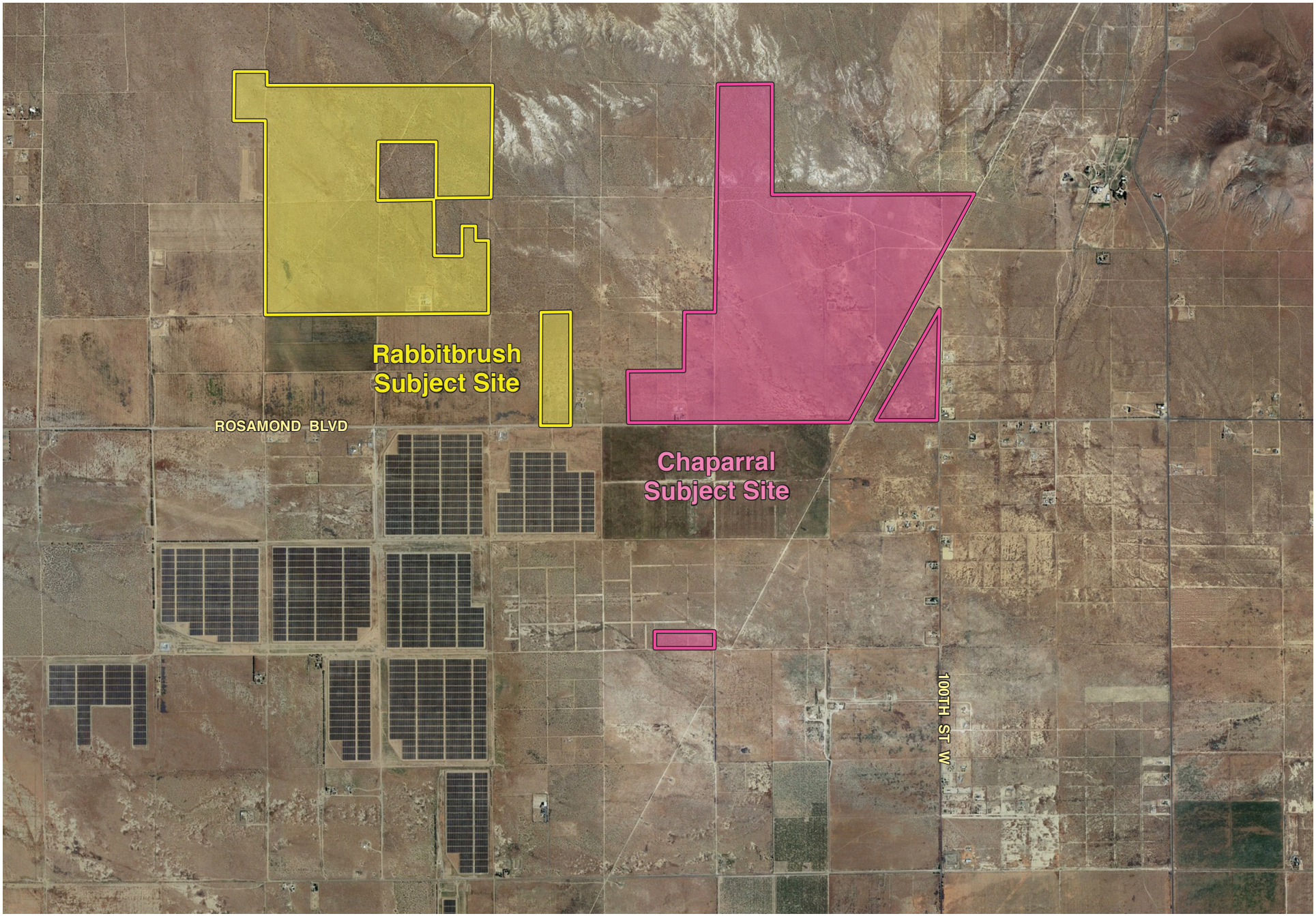
not to scale

06/20 JN 162189

AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Regional Vicinity

Exhibit 1




Source: Google Earth Pro, March 2018

Michael Baker INTERNATIONAL

not to scale

06/20 JN 162189

AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Site Vicinity

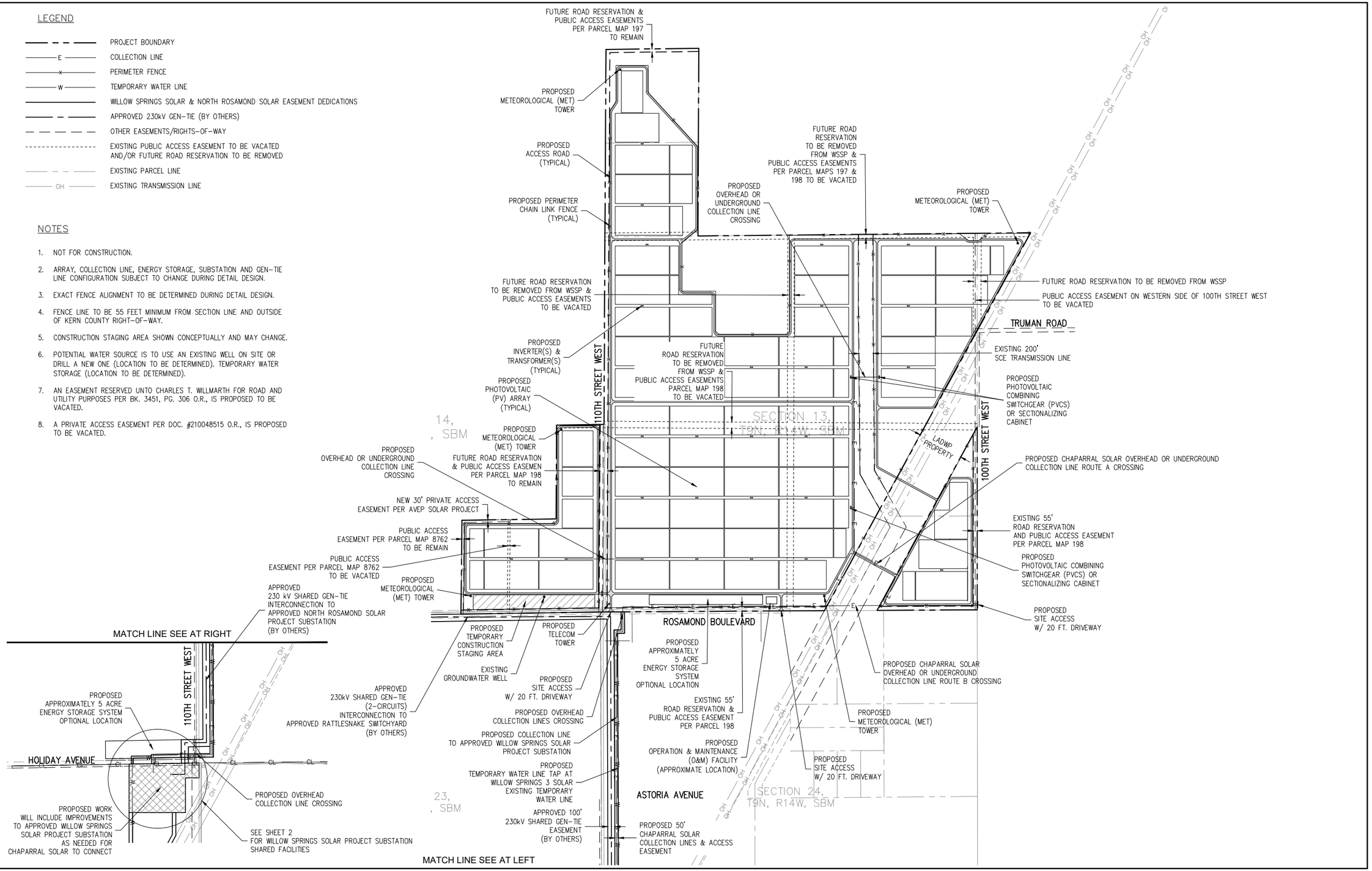
Exhibit 2

## LEGEND

- PROJECT BOUNDARY
- E — COLLECTION LINE
- x — PERIMETER FENCE
- W — TEMPORARY WATER LINE
- WILLOW SPRINGS SOLAR & NORTH ROSAMOND SOLAR EASEMENT DEDICATIONS
- APPROVED 230kV GEN-TIE (BY OTHERS)
- OTHER EASEMENTS/RIGHTS-OF-WAY
- EXISTING PUBLIC ACCESS EASEMENT TO BE VACATED AND/OR FUTURE ROAD RESERVATION TO BE REMOVED
- EXISTING PARCEL LINE
- OH — EXISTING TRANSMISSION LINE

## NOTES

1. NOT FOR CONSTRUCTION.
2. ARRAY, COLLECTION LINE, ENERGY STORAGE, SUBSTATION AND GEN-TIE LINE CONFIGURATION SUBJECT TO CHANGE DURING DETAIL DESIGN.
3. EXACT FENCE ALIGNMENT TO BE DETERMINED DURING DETAIL DESIGN.
4. FENCE LINE TO BE 55 FEET MINIMUM FROM SECTION LINE AND OUTSIDE OF KERN COUNTY RIGHT-OF-WAY.
5. CONSTRUCTION STAGING AREA SHOWN CONCEPTUALLY AND MAY CHANGE.
6. POTENTIAL WATER SOURCE IS TO USE AN EXISTING WELL ON SITE OR DRILL A NEW ONE (LOCATION TO BE DETERMINED). TEMPORARY WATER STORAGE (LOCATION TO BE DETERMINED).
7. AN EASEMENT RESERVED UNTO CHARLES T. WILLMARTH FOR ROAD AND UTILITY PURPOSES PER BK. 3451, PG. 306 O.R., IS PROPOSED TO BE VACATED.
8. A PRIVATE ACCESS EASEMENT PER DOC. #210048515 O.R., IS PROPOSED TO BE VACATED.




Source: First Solar, Inc., April 2020

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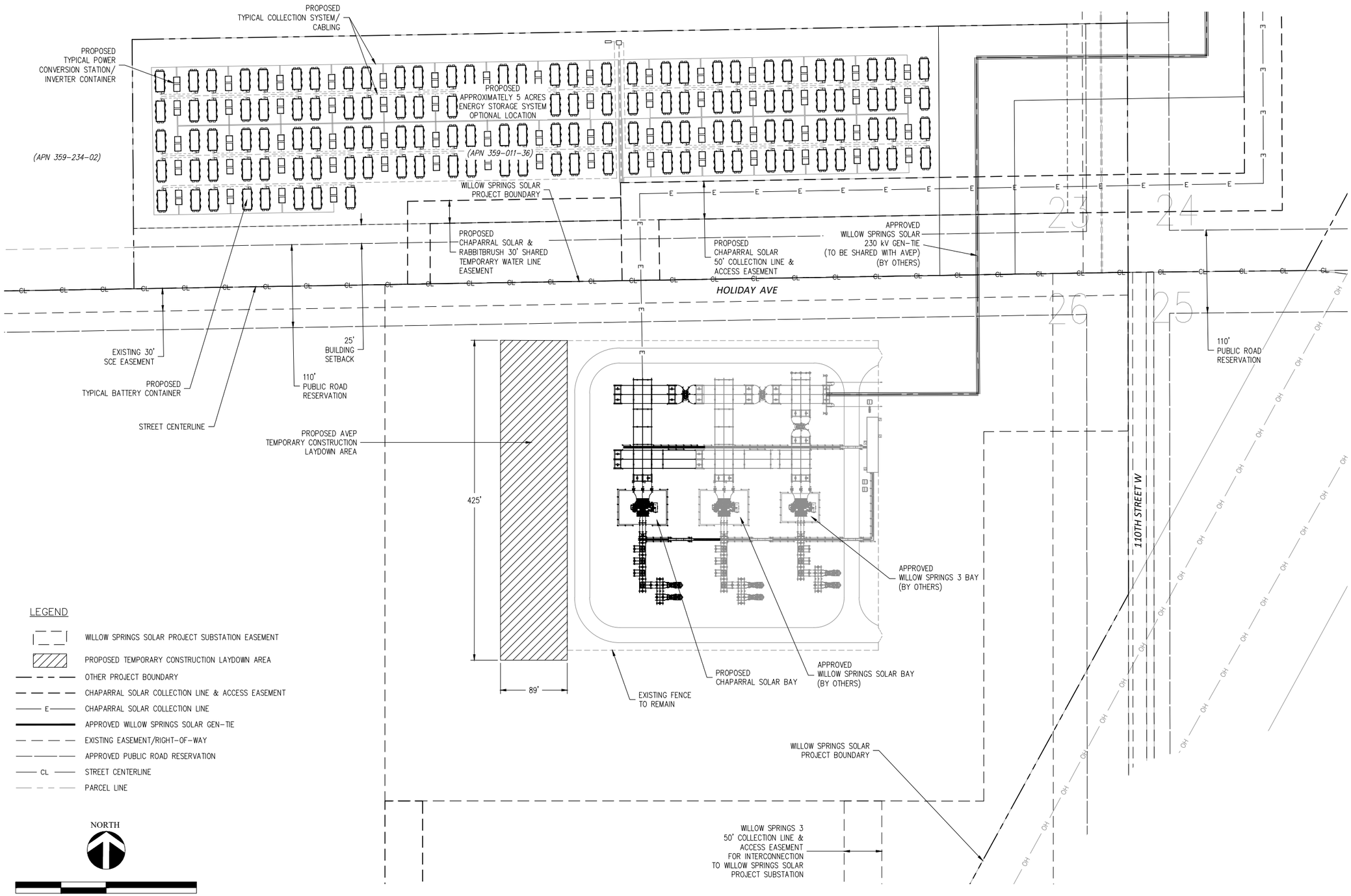
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AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Conceptual Site Plan: Chaparral Solar Facility

**Exhibit 3a (Sheet 1 of 2)**




Source: First Solar, Inc., April 2020

Michael Baker INTERNATIONAL

not to scale

06/2020 JN 162189

AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Conceptual Site Plan: Chaparral Solar Facility

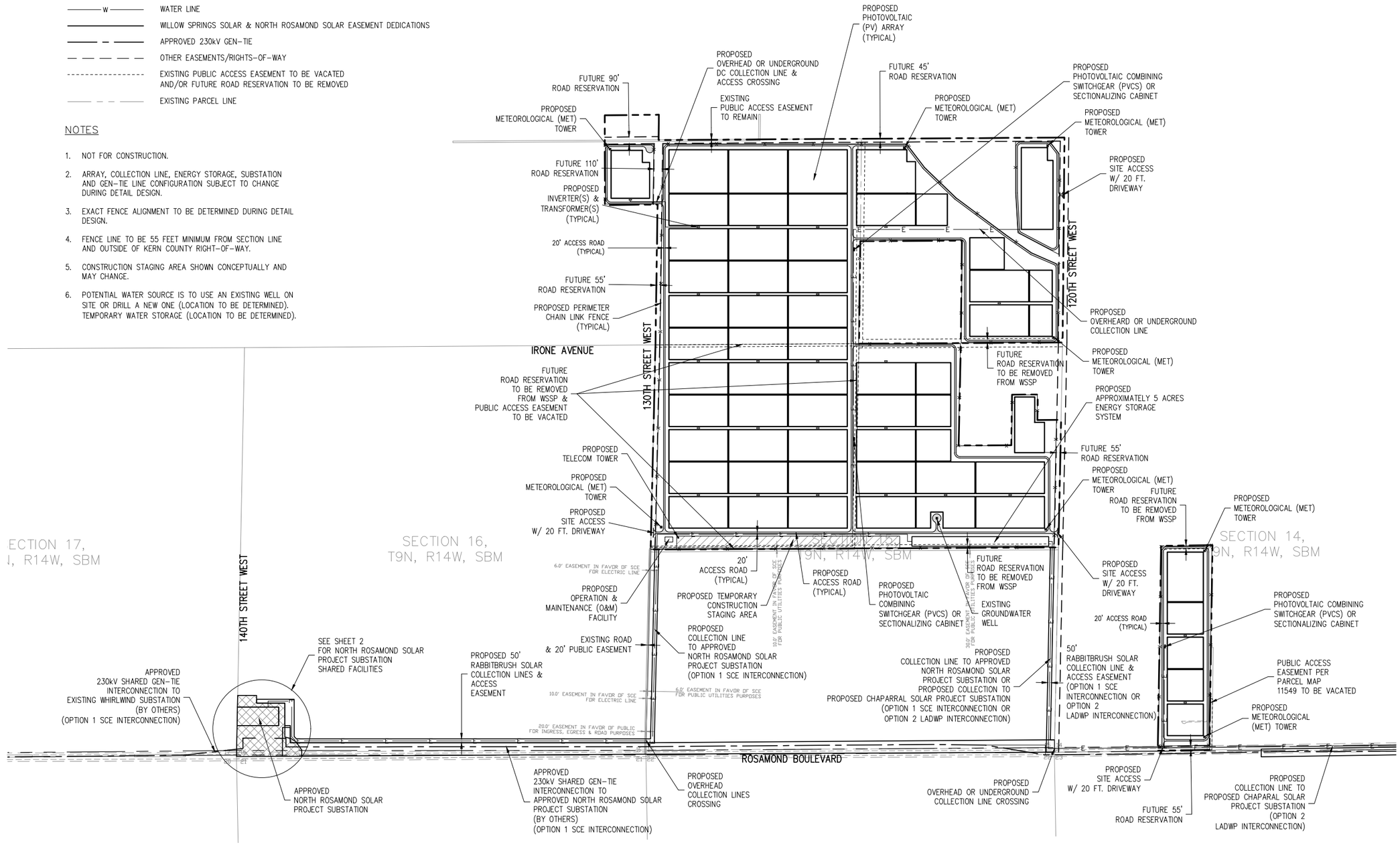
**Exhibit 3a (Sheet 2 of 2)**

LEGEND

- PROJECT BOUNDARY
- COLLECTION LINE
- PERIMETER FENCE
- WATER LINE
- WILLOW SPRINGS SOLAR & NORTH ROSAMOND SOLAR EASEMENT DEDICATIONS
- APPROVED 230kV GEN-TIE
- OTHER EASEMENTS/RIGHTS-OF-WAY
- EXISTING PUBLIC ACCESS EASEMENT TO BE VACATED AND/OR FUTURE ROAD RESERVATION TO BE REMOVED
- EXISTING PARCEL LINE

NOTES

1. NOT FOR CONSTRUCTION.
2. ARRAY, COLLECTION LINE, ENERGY STORAGE, SUBSTATION AND GEN-TIE LINE CONFIGURATION SUBJECT TO CHANGE DURING DETAIL DESIGN.
3. EXACT FENCE ALIGNMENT TO BE DETERMINED DURING DETAIL DESIGN.
4. FENCE LINE TO BE 55 FEET MINIMUM FROM SECTION LINE AND OUTSIDE OF KERN COUNTY RIGHT-OF-WAY.
5. CONSTRUCTION STAGING AREA SHOWN CONCEPTUALLY AND MAY CHANGE.
6. POTENTIAL WATER SOURCE IS TO USE AN EXISTING WELL ON SITE OR DRILL A NEW ONE (LOCATION TO BE DETERMINED). TEMPORARY WATER STORAGE (LOCATION TO BE DETERMINED).




Source: First Solar, Inc., June 2019

Michael Baker INTERNATIONAL

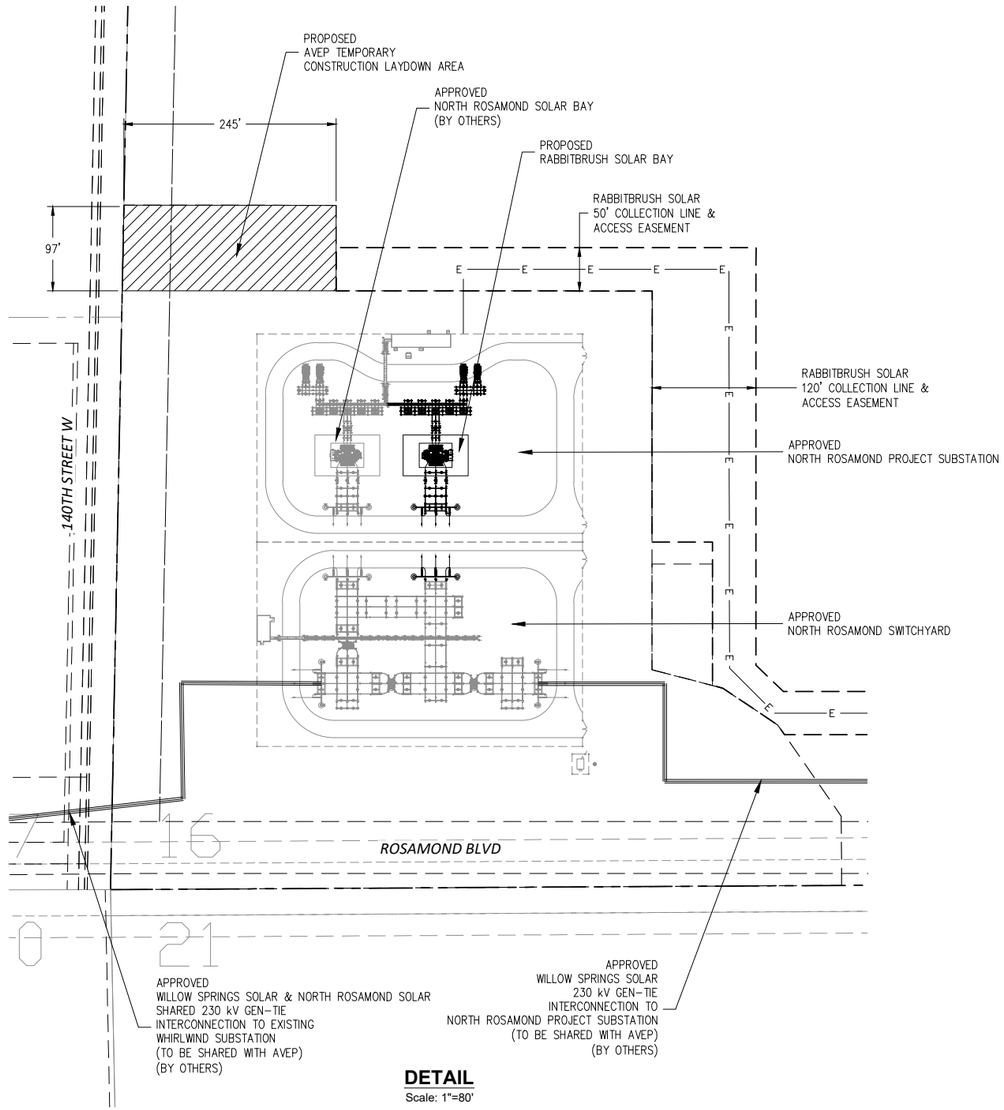
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AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Conceptual Site Plan: Rabbitbrush Solar Facility

**Exhibit 3b (Sheet 1 of 2)**




**DETAIL**
Scale: 1"=80'

LEGEND

- NORTH ROSAMOND SOLAR PROJECT SUBSTATION & SWITCHYARD EASEMENT
- PROPOSED TEMPORARY CONSTRUCTION LAYDOWN AREA
- OTHER PROJECT BOUNDARY
- RABBITBRUSH SOLAR COLLECTION LINE & ACCESS EASEMENT
- E — RABBITBRUSH SOLAR COLLECTION LINE
- APPROVED WILLOW SPRINGS SOLAR GEN-TIE
- EXISTING EASEMENT/RIGHT-OF-WAY
- APPROVED PUBLIC ROAD RESERVATION
- PARCEL LINE

NORTH

160' 80' 0 160'

Source: First Solar, Inc., June 2019

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AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

# Conceptual Site Plan: Rabbitbrush Solar Facility

**Exhibit 3b (Sheet 2 of 2)**

LEGEND

- RABBITBRUSH SOLAR
- CHAPPARAL SOLAR
- APPROVED PROJECTS
- PROPOSED COLLECTION LINE
- PROPOSED CHAPARRAL SOLAR & RABBITBRUSH SOLAR TEMPORARY WATER LINE
- PROPOSED RABBITBRUSH SOLAR TEMPORARY WATER LINE
- APPROVED GEN-TIE
- EXISTING TRANSMISSION LINE

CHAMPAGNE AVE

Existing SCE Transmission Line

Existing SCE Transmission Line

DAWN RD

80TH STREET W

Proposed Rabbitbrush Solar Collection Line

HAMILTON RD

Existing SCE Transmission Line

TEHACHAPI WILLOW SPRINGS RD

Existing LADWP Transmission Line

Proposed Rabbitbrush Solar Collection Line to Approved North Rosamond Solar Project Substation

AVENUE OF THE STARS

110TH STREET W

170TH STREET W

140TH STREET W

130TH STREET W

120TH STREET W

Rabbitbrush Solar

IRONE AVE

Rabbitbrush Solar

Chaparral Solar

TRUMAN RD

FISHER AVE

Proposed Chaparral Solar Collection Line Route A to Approved Willow Springs Solar Project Substation

Existing SCE Whirlwind Substation

North Rosamond Solar

100TH STREET W

ROSAMOND BLVD

Approved North Rosamond Solar and Willow Springs Solar Gen-tie to be shared with Rabbitbrush Solar and Chaparral Solar

Approved North Rosamond Solar Project Substation to be shared with Rabbitbrush Solar and Chaparral Solar

Approved Willow Springs Solar Gen-tie to be shared with Chaparral Solar

North Rosamond Solar

Proposed Rabbitbrush Solar Temporary Water Line

Proposed Chaparral Solar Collection Line Route B to Approved Willow Springs Solar Project Substation

Proposed Chaparral Solar Collection Line to Approved Willow Springs Solar Project Substation

HOLIDAY AVE

Willow Springs Solar

Approved Willow Springs Solar Project Substation to be shared with Chaparral Solar

Proposed Chaparral Solar and Rabbitbrush Solar Temporary Water Line

GASKELL RD

Willow Springs Solar

WEST AVENUE A

Source: First Solar, Inc., June 2019

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not to scale

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AVEP SOLAR PROJECT • ACOUSTICAL ASSESSMENT

**SCE Interconnection**

**Exhibit 4**

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Chaparral Solar Facility. The 125 MW-ac[2] Chaparral Solar Facility comprises approximately 774 contiguous acres and is generally bordered by Rosamond Boulevard to the south, 100th Street West to the east, Avenue of the Stars to the north and 110th Street West to the west. The Chaparral Solar Facility's interconnection to the SCE Whirlwind Substation is described in more detail in Section 1.3, *Interconnection to the Statewide Grid*.

Rabbitbrush Solar Facility. The 125 MW-ac Rabbitbrush Solar Facility comprises approximately 632 acres in two proximate but non-contiguous land areas (eastern and western) and is generally bordered by Rosamond Boulevard to the south, 115th Street West to the east, Avenue of the Stars to the north and 130th Street West to the west. The Rabbitbrush Solar Facility's interconnection to the SCE Whirlwind Substation is described in more detail in Section 1.3.

The Applicants will install arrays of solar PV modules to convert solar energy to electrical power to supply the existing electrical grid. The solar PV modules convert sunlight to direct current (DC) power, which is subsequently transformed to alternating current (AC) power through the use of inverters. Transformers will increase AC voltage for collection and then additional transformers will further increase AC voltage for transmission and interconnection to the electrical grid.

The Facilities would utilize high-efficiency commercially available solar PV modules that are Underwriters Laboratory (UL) listed or approved by another nationally recognized testing laboratory. Materials commonly used for solar PV modules include monocrystalline silicon, polycrystalline silicon, amorphous silicon, cadmium telluride (CdTe), and copper indium selenide/sulfide. The Applicants are considering using First Solar's proprietary thin film solar PV modules. The principal materials incorporated into the PV modules include glass, steel, and various semiconductor metals, including CdTe.

The PV modules will be mounted either on fixed-tilt systems, horizontal tracker systems, or a combination thereof. The mounting system for the modules will be supported by steel posts driven into the ground. Depending upon soil and hydrologic conditions, the posts would be driven into the soil up to ten feet deep, however other embedded foundation designs may be utilized depending on final engineering design.

The Facilities will have multiple rows of mounted solar PV modules installed in arrays which, in combination, make up the solar field. Tracker rows will be arranged in north-south rows, fixed tilt rows will be arranged in east-west rows as shown in Exhibit 3a and 3b.

Tracker systems will have additional meteorological towers and battery or generator backup located at each power conversation station (PCS). The PCS is where the inverter and medium voltage step up transformer are located. The Facilities will have diesel, propane, or battery powered backup generators as required by applicable County or local codes for emergency

[2] Each of the two Facilities is currently projected to generate approximately 125 MW-ac of nominal electric generating capacity. With advancements in module technology (i.e., higher efficiency modules), however, the ability to generate more power with the same modules may increase and, therefore, lead to an increase in nominal electric generating capacity beyond 125 MW-ac for the same footprint and layout, and corresponding impacts analysis. Thus, we expect that, by the time of construction, each Facility will be able to exceed 125 MW-ac but, at this time, have included this conservative generating capacity based on current technology.

backup power during Project operations for stowing the trackers, or to maintain critical electronic equipment that is used for operation of the plant.

Each Facility will have a collection system connecting PV modules to the substation which includes a combination of underground, aboveground cable trays and overhead (poles or H frame structures) DC and AC electrical and communication cables. DC electrical collection lines would connect the PV modules to the inverter. Inverters will convert the DC power into AC power. AC electrical lines will connect inverters to transformers. Transformers will increase the AC power to medium voltage (MV). MV AC electrical lines will connect MV transformers to the high voltage (HV) transformer(s) in the substation. PV combining switchgear (PVCS), Sectionalizing Cabinets (SC) or other electrical combiner boxes may be installed to combine electrical lines on the collection system.

The overhead collection system may contain single or multiple three phase electrical circuits and communication lines on the same structures. Overhead collection systems typically consist of wood or steel poles on monopoles or H frame structures. The height for the collection system structures is approximately 75 feet but may vary based on voltage, minimum height to avoid shading over modules, ground elevation, crossing of existing or proposed facilities, National Electric Safety code and right-of-way requirements. The off-site collection system, substation and gen-tie line options will vary for each Facility as described below.

Energy Storage Systems. The Project may have up to two Energy Storage Systems (ESS) (one on each Facility site) taking up approximately 5 acres per Facility. The Chaparral Solar ESS has two potential locations which are dependent on final design. Preliminary ESS locations and areas are shown on Exhibits 3a and 3b.

Each Facility's ESS would consist of self-contained battery storage modules placed in racks, converters, switchboards, inverters, transformers, controls, and integrated heating, ventilation, and air conditioning (HVAC) units, all enclosed in one or more buildings or in prefabricated metal containers. If the ESS uses prefabricated metal containers, each container will be an ISO 40-foot x 8-foot container, with side-doors accessibility to the battery racks that are installed inside. Adjacent to one or two DC battery containers will be one PCS (PCS) container (20'x7'9"x8'6" standard) that will hold the inverter and Medium voltage transformer. The containers will be shipped and placed on a concrete foundation at the ESS. Approximately 100 DC battery containers and approximately 50 20-foot PCS containers will be installed. The battery storage modules would use proven storage technologies such as Lithium Ion, Sodium-Sulphur, Vanadium-Redox-Flow, Zinc-based, or Iron-based batteries. More containers may be required due to the lower energy density of some of the technologies. The enclosures or building would have appropriate fire suppression systems built to applicable state and local code requirements. The final design would include appropriate containment features to prevent the escape of liquids or spills from the ESS site.

## 1.3 INTERCONNECTION TO THE STATEWIDE GRID

The Project will interconnect to the existing Southern California Edison (SCE) Whirlwind Substation, as shown on Exhibit 4. The Project will share off-site substations and gen-tie lines associated with the existing Willow Springs Solar and Rosamond Solar Projects.

Chaparral Solar Interconnection. The Chaparral Solar Facility will interconnect into the SCE Whirlwind Substation through shared access over the existing gen-tie line for the Willow Springs Solar Project and Rosamond Solar Project.

Chaparral Solar will construct an off-site collection line to run electricity generated by Chaparral Solar from the southwest corner of the Chaparral Solar Facility approximately one mile south along 110th Street West to the existing Willow Springs Solar Project substation, located on the southwest corner of 110th Street West and Holiday Avenue. One or more additional transformers and associated equipment will be added to the Willow Springs Solar Project substation to accommodate the Chaparral Solar Facility, to step up voltage to 230 kilovolt (kV). From the Willow Springs Project Substation, 230 kV electricity, including electricity generated by Chaparral Solar, will travel on the Willow Springs Project gen-tie line to the Rosamond Solar Project (North Rosamond Solar, LLC) substation and then travel on the shared Rosamond Solar/Willow Springs Solar Projects' gen-tie line to the SCE's Whirlwind Substation.

No additional construction on the Willow Springs Solar/Rosamond Solar Projects' gen-tie line will be required to accommodate delivery of the electricity generated by the Chaparral Solar Facility, however, modifications will be required at the Willow Springs Solar Project substation, Rosamond Project substation, and at the SCE Whirlwind Substation. These modifications are described in the *Willow Springs Solar Project Substation Modifications*, *Rosamond Solar Project Substation Modifications*, and *SCE Substation Modifications*, sections below.

Rabbitbrush Solar Interconnection. The Rabbitbrush Solar Facility will interconnect into the SCE Whirlwind Substation through shared access over the existing gen-tie line for the Willow Springs Solar Project and Rosamond Solar Project.

Rabbitbrush Solar will construct off-site collection lines to run electricity generated by Rabbitbrush Solar from the eastern and western portions of the Rabbitbrush Solar Facility to the existing Rosamond Solar Project substation. The off-site collection line will run from the eastern portion of the Rabbitbrush Solar Facility approximately a quarter mile west along Rosamond Boulevard, then run north approximately a half mile along 120th Street West to the southeastern corner of the western portion of the Rabbitbrush Solar Facility. Once the eastern portion's collection lines enter the western portion they will become part of the on-site collection lines. From southwestern corner of the western portion of Rabbitbrush Solar Facility, the eastern and western portions' off-site collection lines will run approximately a half mile south along 130th Street West, then run approximately one mile west along Rosamond Boulevard across the Rosamond Solar Project, via private easement, to the existing Rosamond Project Solar Project substation.

One or more additional transformers and associated equipment will be added to the Rosamond Solar Project substation to accommodate the Rabbitbrush Solar Facility to step up voltage to 230 kV. From the Rosamond Solar Project substation, the 230kV electricity, including electricity generated by Rabbitbrush Solar, will then travel on the shared Rosamond Solar and Willow Springs Solar Projects 230 kV gen-tie line to the SCE's Whirlwind Substation.

No additional construction on the Willow Springs Solar/Rosamond Solar Projects' gen-tie line will be required to accommodate delivery of the electricity generated by the Rabbitbrush Solar Facility, however, modifications will be required at the Rosamond Project substation, and at the SCE Whirlwind Substation. These modifications are described in the *Rosamond Solar Project Substation Modifications* and *SCE Substation Modifications*, sections below.

The Project will share use of the following facilities: from the Willow Springs Solar Project Substation on the Willow Springs Solar Project site, the existing 230 kV gen-tie line runs for approximately one mile north along 110th Street West, then runs west for approximately three miles along Rosamond Boulevard to the Rosamond Solar Project Substation. The Rosamond Solar Project Substation is located on the corner of 140th Street West and Rosamond Boulevard on the Rosamond Solar Project. From the Rosamond Solar Project Substation, the existing 230 kV gen-tie line travels for approximately three and a quarter mile west along Rosamond Boulevard to the existing SCE Whirlwind Substation on the corner of 170th Street West and Rosamond Boulevard.

Willow Springs Solar Project Substation Modifications. New 230 kV HV transformer(s), breakers, buswork, site control centers (SCC) and other associated equipment may be installed or modified in the existing Willow Springs Solar Project Substation for Chaparral Solar. New equipment will be installed on new concrete pads or precast concrete foundations. Expansion of the substation fence and grounding grid will be required. A temporary construction area for the substation expansion may be located next to the Willow Springs Solar Project Substation on Willow Springs Solar Project property.

Rosamond Solar Project Substation Modifications. New 230 kV HV transformer(s), breakers, buswork, site control centers (SCC) and other associated equipment may be installed or modified in the Rosamond Solar Project Substation for Rabbitbrush Solar. A temporary construction area for substation expansion may be located next to the Rosamond Solar Project Substation on Rosamond Solar Project property.

SCE Whirlwind Substation Modifications. Project interconnection will require SCE to install new interconnection-related components at the Whirlwind Substation such as additional control equipment and may also include ground disturbance to construct poles or lattice towers up to approximately 120 feet in height that would be located on SCE property prior to the gen-tie entering into the Whirlwind Substation proper and associated telecommunication communication lines. Approval of the SCE Interconnection Facilities is within the sole discretionary permitting jurisdiction of the California Public Utilities Commission (CPUC). However, because CEQA requires analysis of the environmental impacts of the full Project, the Project description includes the SCE Interconnection Facilities related to the proposed Project for this purpose.

## 1.4 CONSTRUCTION

As discussed above, the Project will consist of two solar PV power generating Facilities with the capability of delivering a total of approximately 125 MW-ac of power each. Project construction activities will include site preparation and clearing/grading, collection system installation, foundations, PV system installation, testing, and site cleanup/restoration work.

Construction of the Project is anticipated to take 12 to 24 months. Each Facility will have different completion dates depending upon power procurement contracts. The on-site construction workforce will consist of laborers, artisans, supervisory personnel, support personnel, and construction management personnel.

Construction activities would be conducted consistent with Kern County Ordinance Section 8.36.020 regarding hours of construction or as approved by Kern County. Certain activities such as high-voltage system modifications may need to occur at nighttime and will be performed with shielded, temporary lighting. Nighttime construction activities would not require the use of noise-generating heavy-duty machinery or equipment.

Construction of the Project will require the following temporary facilities:

- One or more construction staging areas on the Project site consisting of construction trailers for offices and first aid station, parking, portable toilets or a septic system, temporary generators, truck loading and unloading and material staging and assembly area, and storage materials and trash;
- A construction staging area to be used for substation modifications on Rosamond Solar and/or Willow Springs Solar Project property;
- Construction workforce parking area with adequate parking spaces for the workforce necessary for construction of the Project;
- Off-site stringing and pulling sites and temporary construction areas at each new structure for the Chaparral Solar and Rabbitbrush Solar collection lines;
- Off-site stringing and pulling sites and temporary construction areas at each new structure for the new shared Chaparral Solar 230 kV gen-tie line; and
- Temporary lined basins or aboveground tanks to hold water during construction and temporary water lines.

Sediment and erosion controls will be installed in accordance with a Kern County approved erosion and sediment control plan. Existing structures and debris will be removed. Materials will be recycled where feasible, with remaining disposal in landfills in compliance with applicable laws.

Within the solar field areas, a combination of mowing, "disk-and-roll" techniques and, where necessary, conventional grading may be used to prepare the site for array installation. In areas

where mowing will not yield a satisfactory work surface, disk-and-roll techniques may be utilized. Disk-and-roll site preparation uses tractors pulling disking equipment to till under vegetation. Grading will be minimized to the extent practical. Conventional grading techniques may be used for access roads, parking areas, substations, energy storage systems, building or equipment foundations, detention and retention ponds, and laydown areas.

Construction will begin with the installation of fencing around the perimeter of each individual Facility. The perimeter fence will also include signs providing directions to primary site access. Road corridors, buried electrical lines, PV array locations, and the locations of other facilities may be flagged and staked in order to guide construction activities.

Each individual solar PV Facility installation will include site preparation to accommodate the placement of PV arrays, concrete for foundations, the substation (if a part of final design), access roads, and drainage features.

The construction of the solar field will proceed in array blocks and will include the following:

- Installation of steel posts and mounting system;
- Installation of PV modules;
- Installation of concrete pads or precast vaults for PCS, PVCS, or other electrical equipment;
- Installation of overhead, aboveground, or underground collection system cable and associated equipment on concrete pads, vaults, posts or poles; and
- Concrete foundations for substation equipment, ESS, and operation and maintenance (O&M) buildings. Final concrete specifications will be determined during detailed design engineering in accordance with applicable building codes. These concrete foundations may be precast or cast in place.

The substation will be fenced to provide required security around the high-voltage electrical equipment. Equipment installation associated with the transformers, breakers, bus-work, and metal dead-end structures (i.e., structures where a line ends, which require a design capable of carrying heavier tension) will follow at the existing substations. The mineral oil-filled transformers may arrive pre-filled or may be filled on-site. There will be a site control center (SCC) equipment building(s), located in or next to the existing substations, which will house substation and plant control equipment, meters, backup generators (diesel, propane or battery powered), and other electrical equipment.

The Project may have up to two on-site Energy Storage System (ESS) (one for each Facility developed). Each ESS will be composed of battery storage modules placed in multiple prefabricated enclosures or in a building near the on-site substation. The area would be graded, compacted, and leveled, followed by the application of an aggregate rock base. The ESS area will be separately fenced. If placed in prefabricated enclosures, the construction will include moving the ESS enclosures with a crane or forklift to the appropriate location. If a building is used it will

be assembled on site. The final location of the ESS enclosures is dependent on final design and may require construction of a vault or other form of supporting foundation.

The Project may include up to two O&M areas, one for each Facility. Each O&M area may include a permanent one-story O&M building approximately 1,000 square feet that will house administrative, operation, and maintenance equipment along with sanitary facilities. Concrete foundations will be poured to support the permanent O&M building, and a 1,500 square-foot area adjacent to each building will be graveled or paved for employee parking. Aboveground water storage tank, permanent water lines to the Facility water source, septic system and other associated facilities will be constructed in the O&M area. Storage enclosures may be installed on concrete pads. The design and construction of the O&M building(s) will comply with applicable County building standards.

Construction activities for the proposed Project is anticipated to require approximately 600 acre-feet of water. Temporary lined storage ponds may be excavated or aboveground water storage tanks may be used to store the water used for construction on-site. Water storage tanks for domestic water may also be installed on-site.

## CONSTRUCTION SCHEDULE AND EQUIPMENT

The two different solar facilities are anticipated to be constructed in one continuous build cycle with no phasing over a period of 12 to 24 months. The on-site construction workforce will consist of laborers, craftsmen, supervisory personnel, support personnel, and construction management personnel. Each Solar Facility will have different completion dates depending upon power procurement contracts. Therefore, both Facilities may be built at the same time or they may be constructed in sequence.

Table 1, *Chaparral Construction Duration and Equipment by Activity* and Table 2, *Rabbitbrush Construction Duration and Equipment by Activity*, list the timeline for the different construction activities at each Solar Facility and the construction equipment that is planned to be used at each Facility. The construction information shown in Table 1 and Table 2 was provided by First Solar, Inc.

## Table 1
## Chaparral Construction Duration and Equipment by Activity

| Activity[1,2] | Duration (working days)[1] | Equipment[2] | Number of Pieces |
|---|---|---|---|
| Move-on (Laydown, construction trailers, and parking area) | 10 days | Graders | 1 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 1 |
| | | Rubber Tired Loaders | 1 |
| | | Tractors/Loaders/Backhoes | 1 |
| | | Skid Steer Loaders | 1 |
| | | Generator Sets (30kW) | 1 |
| | | Generator Sets (45kW)[3] | 0.5 |
| Substation Construction | 172 days | Other General Industrial Equipment | 1 |
| | | Tractors/Loaders/Backhoes | 1 |
| | | Cranes | 1 |
| | | Rough Terrain Forklifts | 2 |
| | | Aerial Lifts | 1 |
| | | Graders | 1 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 1 |
| | | Rubber Tired Loaders | 1 |
| | | Excavators | 1 |
| | | Tractor/Loaders/Backhoes | 1 |
| Gen-tie Line installation | 128 days | Tractor/Loaders/Backhoes | 1 |
| | | Cranes | 1 |
| | | Crawler Tractors | 1 |
| | | Bore/Drill Rigs | 1 |
| | | Rough Terrain Forklifts | 1 |
| | | Other Construction Equipment | 1 |
| | | Generator Sets | 1 |
| Site preparation and Grading | 107 days | Pumps (Water Pull) | 2 |
| | | Graders | 2 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 3 |
| | | Rubber Tired Loaders | 3 |
| | | Tractor/Loaders/Backhoes (Tractor Buster) | 2 |
| | | Tractor/Loaders/Backhoes (Tractor Disk) | 2 |
| | | Rollers | 1 |
| | | Skid Steer Loaders | 2 |
| | | Generator Sets (30kW) | 1 |
| | | Generator Sets (45 kW)[3] | 1 |
| Underground work (trenching) | 131 days | Tractor/Loaders/Backhoes (Cable plow) | 1 |
| | | Trenchers (Cable Trenchers) | 1 |
| | | Plate Compactors | 1 |
| | | Excavators | 1 |
| | | Trenchers | 4 |
| | | Crushing/Processing Equipment (Padder) | 1 |
| | | Tractors/Loaders/Backhoes | 2 |
| | | Rollers | 2 |
| System Installation | 109 days | Rough Terrain Forklifts | 5 |
| | | Aerial Lifts | 3 |
| | | Skid Steer Loaders | 10 |
| | | Air Compressors | 1 |
| | | Other Construction Equipment (Post Machines) | 7 |
| | | Generator Sets (30 kW) | 1 |
| | | Generator Sets (45kW)[3] | 1 |
| Cleanup/Testing/Restoration | 105 days | Tractors/Loaders/Backhoes | 1 |
| | | Graders | 1 |
| | | Scrapers | 2 |

Notes:
1. Construction duration is conservatively estimated to be within a 12-month rolling period with some of the activities overlapping.
2. It is conservatively assumed that decommissioning and repowering activities would result in noise levels similar to Chaparral Solar Facility construction activities. As such, the equipment in this table would also apply to the decommissioning and repowering activities; refer to the analysis in Impact NOI-1.
3. The Generator Sets (45kW) equipment would be in operation for approximately 6 hours per day and would not operate for an entire construction day during the Move-on (Laydown, construction trailers, and parking area) phase.

## Table 2
## Rabbitbrush Construction Duration and Equipment by Activity

| Activity[1,2] | Duration (working days)[1] | Equipment[2] | Number of Pieces |
|---|---|---|---|
| Move-on (Laydown, construction trailers, and parking area) | 10 days | Graders | 1 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 1 |
| | | Rubber Tired Loaders | 1 |
| | | Tractors/Loaders/Backhoes | 1 |
| | | Skid Steer Loaders | 1 |
| | | Generator Sets (30kW) | 1 |
| | | Generator Sets (45kW)[3] | 0.5 |
| Substation Construction | 0 days | Other General Industrial Equipment | 1 |
| | | Tractors/Loaders/Backhoes | 1 |
| | | Cranes | 1 |
| | | Rough Terrain Forklifts | 2 |
| | | Aerial Lifts | 1 |
| | | Graders | 1 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 1 |
| | | Rubber Tired Loaders | 1 |
| | | Excavators | 1 |
| | | Tractor/Loaders/Backhoes | 1 |
| Gen-tie Line installation | 0 days | Tractor/Loaders/Backhoes | 1 |
| | | Cranes | 1 |
| | | Crawler Tractors | 1 |
| | | Bore/Drill Rigs | 1 |
| | | Rough Terrain Forklifts | 1 |
| | | Other Construction Equipment | 1 |
| | | Generator Sets | 1 |
| Site preparation and Grading | 107 days | Pumps (Water Pull) | 2 |
| | | Graders | 2 |
| | | Rubber Tired Dozers | 1 |
| | | Scrapers | 3 |
| | | Rubber Tired Loaders | 3 |
| | | Tractor/Loaders/Backhoes (Tractor Buster) | 2 |
| | | Tractor/Loaders/Backhoes (Tractor Disk) | 2 |
| | | Rollers | 1 |
| | | Skid Steer Loaders | 2 |
| | | Generator Sets (30kW) | 1 |
| | | Generator Sets (45 kW)[3] | 1 |
| Underground work (trenching) | 131 days | Tractor/Loaders/Backhoes (Cable plow) | 1 |
| | | Trenchers (Cable Trenchers) | 1 |
| | | Plate Compactors | 1 |
| | | Excavators | 1 |
| | | Trenchers | 4 |
| | | Crushing/Processing Equipment (Padder) | 1 |
| | | Tractors/Loaders/Backhoes | 2 |
| | | Rollers | 2 |
| System Installation | 109 days | Rough Terrain Forklifts | 5 |
| | | Aerial Lifts | 3 |
| | | Skid Steer Loaders | 10 |
| | | Air Compressors | 1 |
| | | Other Construction Equipment (Post Machines) | 7 |
| | | Generator Sets (30 kW) | 1 |
| | | Generator Sets (45kW)[3] | 1 |
| Cleanup/Testing/Restoration | 105 days | Tractors/Loaders/Backhoes | 1 |
| | | Graders | 1 |
| | | Scrapers | 2 |

Notes:
1. Construction duration is conservatively estimated to be within a 12-month rolling period with some of the activities overlapping.
2. It is conservatively assumed that decommissioning and repowering activities would result in noise levels similar to Rabbitbrush Solar Facility construction activities. As such, the equipment in this table would also apply to the decommissioning and repowering activities; refer to the analysis in Impact NOI-1.
3. The Generator Sets (45kW) equipment would be in operation for approximately 6 hours per day and would not operate for an entire construction day during the Move-on (Laydown, construction trailers, and parking area) phase.

## OPERATION AND MAINTENANCE ACTIVITIES

The operation and maintenance of each Solar Facility will require up to 10 full-time equivalent (FTE) personnel (or personnel hours totaling ten FTE positions) consisting of plant operators and maintenance technicians totaling 20 FTEs for the Project. Operations and maintenance staff will typically work during regular business hours Monday through Friday. During periods when non-routine maintenance or major repairs are in progress, the maintenance staff will typically work nights when the Project is not generating power to the grid. The Project may utilize 24-hour security.

Preventive maintenance kits and certain critical spare equipment will typically be stored on-site, while all other components will be readily available from a remote warehouse facility.

The Project's operational water consumption is expected to be approximately 20 acre-feet per year to be used for O&M buildings (toilets and hand washing facilities), and potentially used for PV solar panel washing. Water storage tanks may be installed at the O&M areas to provide water for fire protection and operations. Additional potable water may be delivered for O&M staff consumption.

Operational water for the two solar Facilities will be supplied from wells on each individual facility site and/or wells shared by one or more of the two facilities, or wells on the Willow Springs Solar Project site.

## DECOMMISSIONING AND REPOWERING

Solar equipment has an expected lifespan of over 30 years. The Project expects to sell the renewable energy produced by the Project under the terms of a long-term Power Purchase Agreement (PPA) with a utility, commercial entity or other power off taker. Upon completion of the PPA term, the Project owner may, at its discretion, choose to enter into a subsequent PPA or decommission and remove the system and its components. Upon decommissioning, the solar site could be converted to other uses in accordance with applicable land use regulations in effect at that time.

It is anticipated that, during Project decommissioning, Project structures that would not be needed for subsequent use would be removed from the Project site. Above-ground equipment that may be removed would include module posts and support structures, on-site transmission poles that are not shared with third parties and the overhead collection system within the Project site, inverters, transformers, electrical wiring, equipment on the inverter pads, and related equipment and concrete pads. The substations would be removed if it is owned by the Project. However, if a public or private utility assumes ownership of the substations, the substations may remain on-site to be used as part of the utility service to supply other applications.

Equipment would be de-energized prior to removal, salvaged (where possible), and shipped off-site to be recycled or disposed of at an appropriately licensed disposal facility. Once the solar modules are removed, the racks would be disassembled, and the structures supporting the racks would be removed. Site infrastructure would be removed, including fences, and concrete pads

that may support the inverters, transformers and related equipment. The demolition debris and removed equipment may be cut or dismantled into pieces that can be safely lifted or carried by standard construction equipment. The fence and gates would be removed, and all materials would be recycled to the extent practical. Project roads would be restored unless they may be used for subsequent land use. The area would be thoroughly cleaned and all debris removed. Most materials would be recycled to the extent feasible, with the remainder disposed of in landfills in compliance with all applicable laws.

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# 2.0 DESCRIPTION OF NOISE METRICS

## 2.1 STANDARD UNIT OF MEASUREMENT

Sound is described in terms of the loudness (amplitude) of the sound and frequency (pitch) of the sound. The standard unit of measurement of the loudness of sound is dB. Since the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale has been devised to relate noise to human sensitivity. The A-weighted decibel scale (dBA) performs this compensation by differentiating among frequencies in a manner approximating the sensitivity of the human ear.

Decibels are based on the logarithmic scale. The logarithmic scale compresses the wide range in sound pressure levels to a more usable range of numbers in a manner similar to the Richter scale used to measure earthquakes. In terms of human response to noise, a sound 10 dBA higher than another is perceived to be twice as loud and 20 dBA higher is perceived to be four times as loud, and so forth. Everyday sounds normally range from 30 dBA (very quiet) to 100 dBA (very loud). Examples of various sound levels in different environments are illustrated on Exhibit 5, *Common Environmental Noise Levels*.

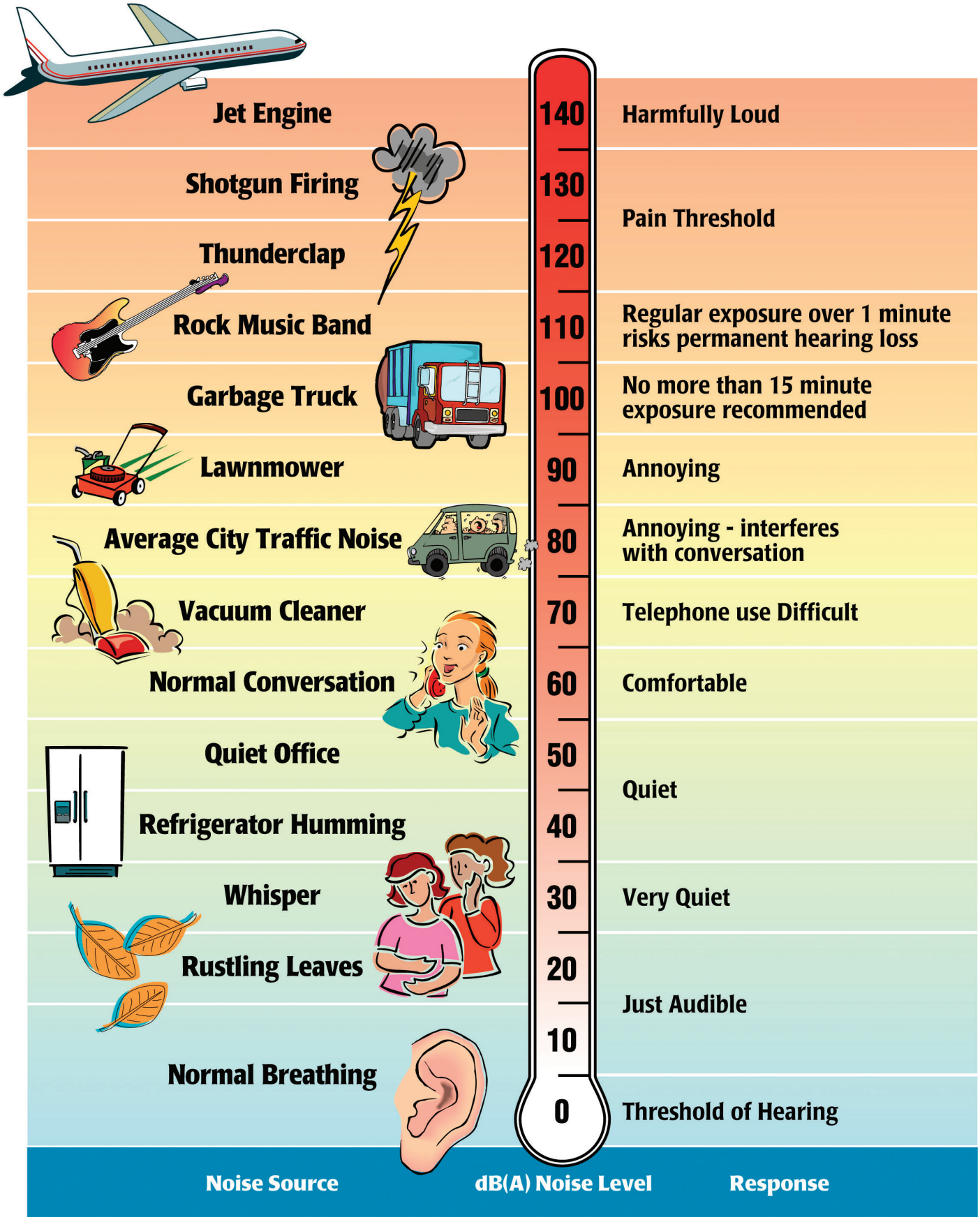
Many methods have been developed for evaluating community noise to account for, among other things:

- The variation of noise levels over time;
- The influence of periodic individual loud events; and
- The community response to changes in the community noise environment.

Table 3, *Noise Descriptors*, provides a listing of methods to measure sound over a period of time.

## 2.2 HEALTH EFFECTS OF NOISE

Human response to sound is highly individualized. Annoyance is the most common issue regarding community noise. The percentage of people claiming to be annoyed by noise generally increases with the environmental sound level. However, many factors also influence people's response to noise. The factors can include the character of the noise, the variability of the sound level, the presence of tones or impulses, and the time of day of the occurrence. Additionally, non-acoustical factors, such as the person's opinion of the noise source, the ability to adapt to the noise, the attitude towards the source and those associated with it, and the predictability of the noise, all influence people's response. As such, response to noise varies widely from one person to another and with any particular noise, individual responses would range from "not annoyed" to "highly annoyed."




**Source:**

Environmental Protection Agency, *Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (EPA/ONAC 550/9-74-004),* March 1974.

**Table 3**
**Noise Descriptors**

| Term | Definition |
|---|---|
| Decibel (dB) | The unit for measuring the volume of sound equal to 10 times the logarithm (base 10) of the ratio of the pressure of a measured sound to a reference pressure (20 micropascals). |
| A-Weighted Decibel (dBA) | A sound measurement scale that adjusts the pressure of individual frequencies according to human sensitivities. The scale accounts for the fact that the region of highest sensitivity for the human ear is between 2,000 and 4,000 cycles per second (hertz). |
| Equivalent Sound Level ($L_{eq}$) | The sound level containing the same total energy as a time varying signal over a given time period. The $L_{eq}$ is the value that expresses the time averaged total energy of a fluctuating sound level. |
| Maximum Sound Level ($L_{max}$) | The highest individual sound level (dBA) occurring over a given time period. |
| Minimum Sound Level ($L_{min}$) | The lowest individual sound level (dBA) occurring over a given time period. |
| Community Noise Equivalent Level (CNEL) | A rating of community noise exposure to all sources of sound that differentiates between daytime, evening, and nighttime noise exposure. These adjustments are +5 dBA for the evening, 7:00 PM to 10:00 PM, and +10 dBA for the night, 10:00 PM to 7:00 AM. |
| Day/Night Average ($L_{dn}$) | The $L_{dn}$ is a measure of the 24-hour average noise level at a given location. It was adopted by the U.S. Environmental Protection Agency for developing criteria for the evaluation of community noise exposure. It is based on a measure of the average noise level over a given time period called the $L_{eq}$. The $L_{dn}$ is calculated by averaging the $L_{eq}$'s for each hour of the day at a given location after penalizing the "sleeping hours" (defined as 10:00 PM to 7:00 AM) by 10 dBA to account for the increased sensitivity of people to noises that occur at night. |
| Exceedance Level ($L_n$) | The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% ($L_{01}$, $L_{10}$, $L_{50}$, $L_{90}$, respectively) of the time during the measurement period. |

Source: Cyril M. Harris, *Handbook of Noise Control*, 1979.

When the noise level of an activity rises above 70 dBA, the chance of receiving a complaint is possible, and as the noise level rises, dissatisfaction among the public steadily increases. However, an individual's reaction to a particular noise depends on many factors, such as the source of the sound, its loudness relative to the background noise, and the time of day. The reaction to noise can also be highly subjective; the perceived effect of a particular noise can vary widely among individuals in a community.

The effects of noise are often only transitory, but adverse effects can be cumulative with prolonged or repeated exposure. The effects of noise on the community can be organized into six broad categories:

- Noise-Induced Hearing Loss;
- Interference with Communication;
- Effects of Noise on Sleep;
- Effects on Performance and Behavior;
- Extra-Auditory Health Effects; and
- Annoyance.

Although it often causes discomfort and sometimes pain, noise-induced hearing loss usually takes years to develop. Noise-induced hearing loss can impair the quality of life through a reduction in the ability to hear important sounds and to communicate with family and friends. Hearing loss is one of the most obvious and easily quantified effects of excessive exposure to

noise. While the loss may be temporary at first, it could become permanent after continued exposure. When combined with hearing loss associated with aging, the amount of hearing loss directly caused by the environment is difficult to quantify. Although the major cause of noise-induced hearing loss is occupational, substantial damage can be caused by non-occupational sources.

According to the United States Public Health Service, nearly ten million of the estimated 21 million Americans with hearing impairments owe their losses to noise exposure. Noise can mask important sounds and disrupt communication between individuals in a variety of settings. This process can cause anything from a slight irritation to a serious safety hazard, depending on the circumstance. Noise can disrupt face-to-face communication and telephone communication, and the enjoyment of music and television in the home. It can also disrupt effective communication between teachers and pupils in schools and can cause fatigue and vocal strain in those who need to communicate in spite of the noise.

Interference with communication has proved to be one of the most important components of noise-related annoyance. Noise-induced sleep interference is one of the critical components of community annoyance. Sound level, frequency distribution, duration, repetition, and variability can make it difficult to fall asleep and may cause momentary shifts in the natural sleep pattern, or level of sleep. It can produce short-term adverse effects on mood changes and job performance, with the possibility of more serious effects on health if it continues over long periods. Noise can cause adverse effects on task performance and behavior at work, and non-occupational and social settings. These effects are the subject of some controversy, since the presence and degree of effects depends on a variety of intervening variables. Most research in this area has focused mainly on occupational settings, where noise levels must be sufficiently high and the task sufficiently complex for effects on performance to occur.

Recent research indicates that more moderate noise levels can produce disruptive after-effects, commonly manifested as a reduced tolerance for frustration, increased anxiety, decreased incidence of "helping" behavior, and increased incidence of "hostile" behavior. Noise has been implicated in the development or exacerbation of a variety of health problems, ranging from hypertension to psychosis. As with other categories, quantifying these effects is difficult due to the amount of variables that need to be considered in each situation. As a biological stressor, noise can influence the entire physiological system. Most effects seem to be transitory, but with continued exposure some effects have been shown to be chronic in laboratory animals.

Annoyance can be viewed as the expression of negative feelings resulting from interference with activities, as well as the disruption of one's peace of mind and the enjoyment of one's environment. Field evaluations of community annoyance are useful for predicting the consequences of planned actions involving highways, airports, road traffic, railroads, or other noise sources. The consequences of noise-induced annoyance are privately held dissatisfaction, publicly expressed complaints to authorities, and potential adverse health effects, as discussed above. In a study conducted by the United States Department of Transportation, the effects of annoyance to the community were quantified. In areas where noise levels were consistently above 60 dBA CNEL, approximately nine percent of the community is highly annoyed. When levels exceed 65 dBA CNEL, that percentage rises to 15 percent. Although evidence for the

various effects of noise have differing levels of certainty, it is clear that noise can affect human health. Most of the effects are, to a varying degree, stress related.

## 2.3 GROUND-BORNE VIBRATION

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. The peak particle velocity (PPV) or the root mean square (RMS) velocity is usually used to describe vibration amplitudes. PPV is defined as the maximum instantaneous peak or vibration signal, while RMS is defined as the square root of the average of the squared amplitude of the signal.[3] PPV is typically used for evaluating potential building damage, whereas RMS is typically more suitable for evaluating human response. Typically, ground-borne vibration, generated by man-made activities, attenuates rapidly with distance from the source of vibration. Man-made vibration issues are therefore usually confined to short distances (i.e., 500 feet or less) from the source.

Both construction and operation of development projects can generate ground-borne vibration. In general, demolition of structures preceding construction generates the highest vibrations. Construction equipment such as vibratory compactors or rollers, pile drivers, and pavement breakers can generate perceptible vibration during construction activities. Heavy trucks can also generate ground-borne vibrations that vary depending on vehicle type, weight, and pavement conditions.

[3] Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

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# 3.0 ENVIRONMENTAL SETTING

## 3.1 NOISE MEASUREMENTS AND SENSITIVE RECEPTORS

### SENSITIVE RECEPTORS

Typically, sensitive receptors on noise-sensitive lands include residences, hospitals, places of worship, libraries and schools, nature and wildlife preservers, and parks. Noise sensitive land uses located in the vicinity of the proposed Project include rural residences; refer to Table 4, *Sensitive Receptors*, and Exhibit 6, *Sensitive Receptor Locations*.

**Table 4**
**Sensitive Receptors**

| Type | AVEP Solar Facility | Sensitive Receptor # | Distance from Project Site (feet)[1] | Direction from Project Site | Location |
|---|---|---|---|---|---|
| Rural Residential (very low density) | Chaparral | 1 | 165 | East | 3300 100th St W, Rosamond, CA 93560 |
| | | 2 | 175 | East | 3144 100th St W, Rosamond, CA 93560 |
| | | 3 | 120 | East | 3022 100th St W, Rosamond, CA 93560 |
| | | 4 | 500 | East | 2929 100th St W, Rosamond, CA 93560 |
| | | 5 | 850 | East | 2860 100th St W, Rosamond, CA 93560 |
| | | 6 | 775 | Southeast | 9865-9837 Sahara Ave, Rosamond, CA 93560 |
| | | 7 | 1,575 | Southeast | 8550-8458 Rosamond Blvd, Rosamond, CA 93560 |
| | | 8 | 1,800 | East | 9668 Rosamond Blvd, Rosamond, CA 93560 |
| | | 9 | 2,200 | East | 9580 Rosamond Blvd, Rosamond, CA 93560 |
| | | 10 | 2,200 | Northeast | 4105 Manly Rd, Rosamond, CA |
| | | 11 | 2,000 | South | 2613-2559 100th St W, Rosamond, CA 93560 |
| | | 12 | 2,100 | South | 10117-10214 Leslie Ave, Rosamond, CA 93560 |
| | | 13[2] | - | - | 8768 Rosamond Blvd, Rosamond, CA 93560 |
| | Discontinuous 10-acre parcel and Willow Springs Substation Improvements | 39 | 2,250 | Northwest | Northeast of the Abarth Ave and 117th St W intersection |
| | Rabbitbrush | 14 | 900 | Southwest | 11936 Rosamond Blvd, Rosamond, CA 93560 |
| | | 15 | 3,100 | South | 12567 Sahara Ave, Rosamond, CA 93560 |
| | | 16 | 3,000 | South | 9184 Rosamond Blvd, Rosamond, CA 93560 |
| | | 17 | 170 | West | 130th St W, Rosamond, CA 93560 |
| | | 18 | 3,100 | North | Hamilton Rd, Rosamond, CA 93560 |
| | | 19 | 170[3] | East | APN's: 358-152-06-4, 358-152-07-2 |
| | Rosamond Substation Improvements | 36[4] | 480 | South | 13956 W Rosamond Blvd, Rosamond CA 93560 |
| | | 37 | 1,615 | Southwest | 14154 W Rosamond Blvd, Rosamond CA 93560 |
| | | 38 | 1,600 | West | 14271 W Rosamond Blvd, Rosamond CA 93560 |

Notes:
1. Distances are measured from the exterior of the Solar Facilities boundary only and not from individual construction projects/areas within the interior of the Solar Facilities.
2. Receptor #13 would be acquired as part of the proposed Project and therefore is not evaluated in this Acoustical Assessment. Receptor #13 is included in Table 6 for informational purposes only.
3. APN's 358-152-06-04 and 358-152-07-2 do not have registered street addresses and are classified as vacant lots per the Kern County Assessor-Recorder. However, based off Google Earth imagery, these parcels of land have development on-site. Thus, it is conservatively assumed in this analysis that these parcels of land have sensitive receptors on-site.
4. Gap in numbering reflects change in project footprint (removal of "Tumbleweed Solar Facility") made after initial noise study completed – numbering carries through to other project documents therefore will remain as originally identified.

Source: Google Earth 2018.

### NOISE MEASUREMENTS

Three noise measurements were conducted on Monday, April 10, 2017, and Tuesday, April 11, 2017, to obtain baseline sound pressure level (SPL) measurements in the Project area. Table 5, *Ambient Noise Measurements*, provides the measured noise levels at three locations in the Project area, global positioning system (GPS) locations for each noise measurement, and time of each

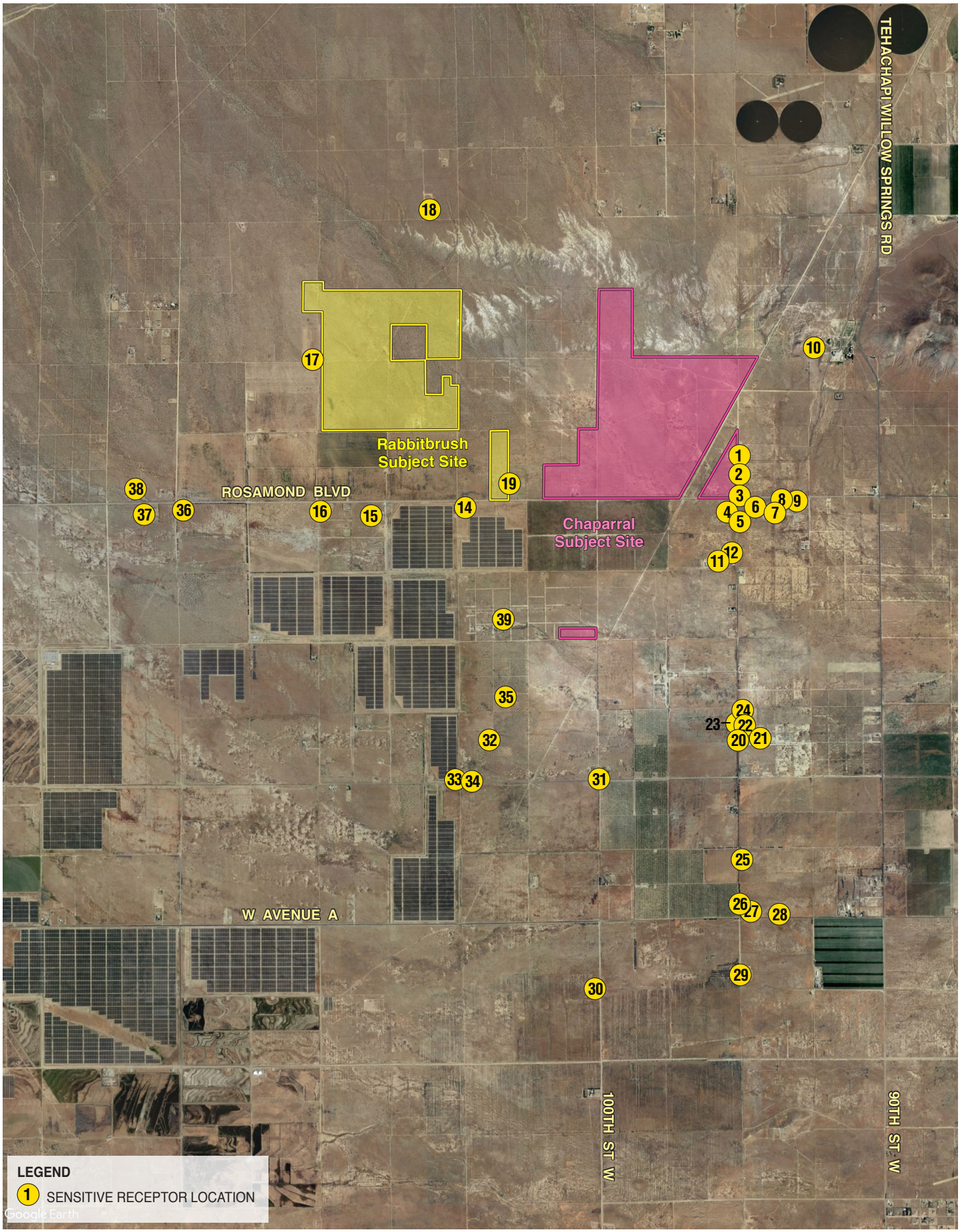
measurement taken. The noise measurement locations are also portrayed in Exhibit 7, *Noise Measurement Locations*. SPLs were measured and recorded using American National Standard Institute (ANSI) Type I sound level meters. Measurements were collected for approximately 15-minute durations at each location. Measurements were collected in data sheets to record all site-specific information.

**Table 5**
**Ambient Noise Measurements**

| Noise Measurement Number[1] | Noise Measurement Location/ GPS Coordinates[1] | Time[1] | Equivalent Noise Level (dBA $L_{eq}$)[1] |
|---|---|---|---|
| 1 | GPS Coordinates: 34.870375 North 118.350851 West | 3:14 p.m. | 33.2 |
| 2 | GPS Coordinates: 34.892603 North 118.307958 West | 08:05 a.m. | 47.2 |
| 3 | GPS Coordinates: 34.819925 North 118.308520 West | 11:28 a.m. | 48.7 |

Notes:
1. Noise measurements were taken by Ecology and Environment, Inc., on April 10-11, 2017. Refer to Appendix A, *Noise Data*.

High-density foam windscreens meant for long-term outdoor service were used to protect the sound level meters from rain and self-induced wind noise. Additionally, the sound level meters were located approximately four feet above ground. Sound level information was immediately recorded on field data sheets and saved electronically in the sound analyzer following each sampling period. Field notations were used to identify other noise sources in the area at each measurement location. Accurate measurement locations were identified using a portable GPS device.




Source: Google Earth Pro, July, 2019

Michael Baker INTERNATIONAL

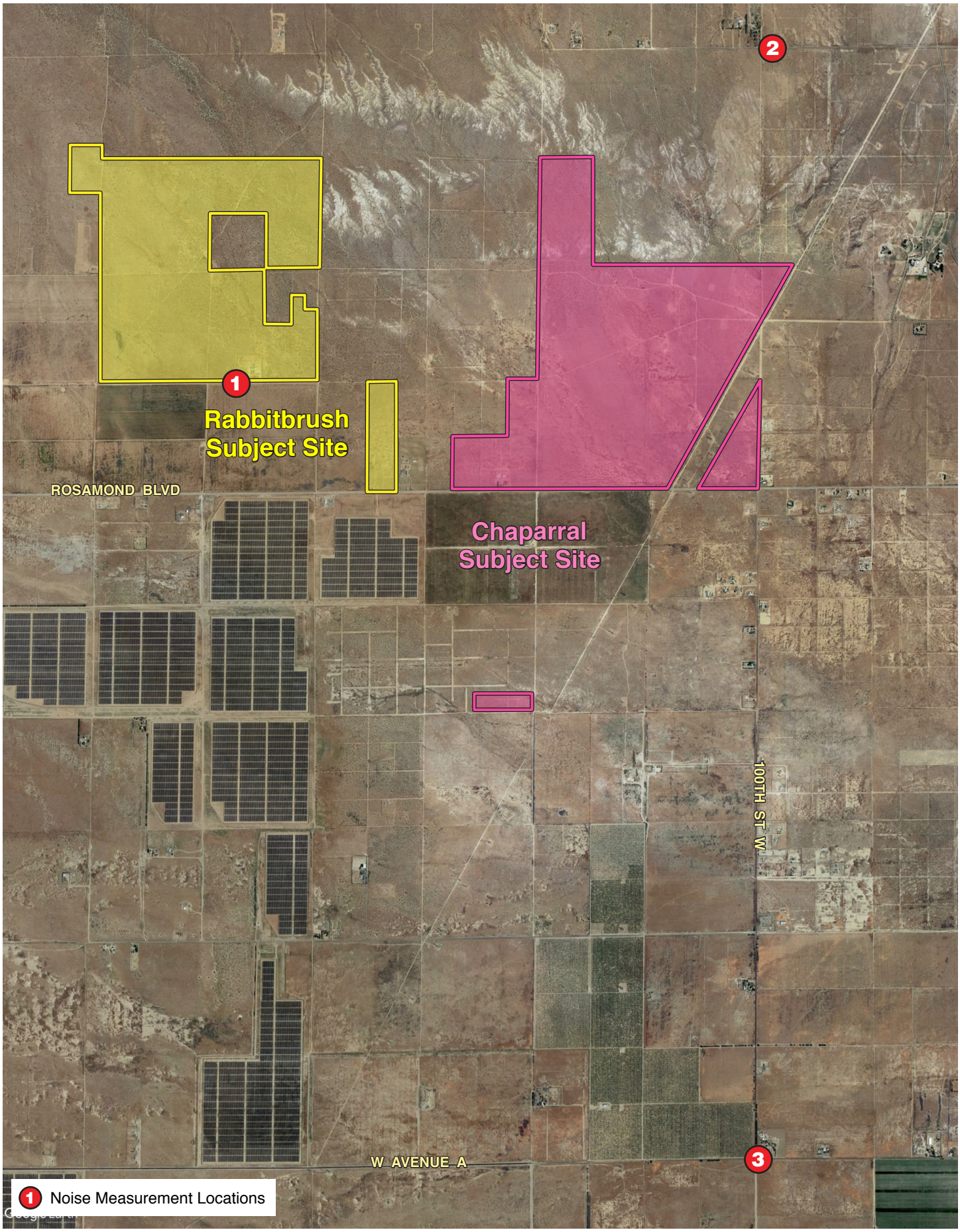
not to scale

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# Sensitive Receptor Locations

Exhibit 6




Source: Google Earth Pro, March 2018

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not to scale

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# Noise Measurement Locations

Exhibit 7

# 4.0 REGULATORY SETTING

## 4.1 FEDERAL

### NOISE

Under the Occupational Safety and Health Act of 1970 (OSHA) (29 U.S.C. §651 et seq.), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) adopted regulations (29 CFR §1926.52) designed to protect workers against the effects of occupational noise exposure. These regulations list limits on noise exposure levels as a function of the amount of time during which the worker is exposed, as shown in Table 6, *OSHA Permissible Noise Exposure Standards*. The regulations further specify requirements for a hearing conservation program (§1926.52(d)(1)), and a hearing protection program (§1926.101) whenever it is not feasible to reduce the noise levels or duration of exposures to those specified in Table 7. There are no federal laws governing community noise.

**Table 6**
**OSHA Permissible Noise Exposure Standards**

| Duration of Noise (Hours/Day) | A-Weighted Noise Level (dBA) |
|---|---|
| 8 | 90 |
| 6 | 92 |
| 4 | 95 |
| 3 | 97 |
| 2 | 100 |
| 1.5 | 102 |
| 1 | 105 |
| 0.5 | 110 |
| 0.25 or less | 115 |

Source: USEPA, 29 CFR §1926.52(d)(1), Table D-2.

### VIBRATION

Kern County does not have any adopted standards, guidelines, or thresholds relative to ground-borne vibration. As such, available guidelines from the Federal Transit Administration (FTA) are utilized to assess impacts from ground-borne vibration. As discussed above, in most circumstances common ground-induced vibrations related to roadway traffic and construction activities pose no threat to buildings or structures.[4]

The FTA's *Transit Noise and Vibration Impact Assessment Manual* (FTA Noise and Vibration Manual) (September 2018) provides ground-borne vibration impact criteria with respect to building damage during construction activities. According to the FTA Noise and Vibration Manual, a vibration criterion of 0.20 PPV should be considered as the significant impact level for non-engineered timber and masonry buildings. Structures or buildings constructed of reinforced concrete, steel, or timber, have a vibration damage criterion of 0.50 PPV pursuant to the FTA Noise and Vibration Manual.

[4] Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

## 4.2 STATE

### NOISE

California Government Code §65302 encourages each local government entity to implement a noise element as part of its general plan. In addition, the California Office of Planning and Research (OPR) has developed guidelines for preparing noise elements, which include recommendations for evaluating the compatibility of various land uses as a function of community noise exposure. The recommendations established by OPR are listed in Table 7, *Land Use Compatibility for Community Noise Environments*.

### VIBRATION

Kern County does not have any adopted standards, guidelines, or thresholds for human annoyance relative to ground-borne vibration. Based on the California Department of Transportation (Caltrans) guidance, construction vibration would cause human annoyance if an exceedance of the 0.4 inch-per-second PPV criteria would occur.

**Table 7**
**Land Use Compatibility for Community Noise Environments**

| Land Use Category | Community Noise Exposure (CNEL) | | | |
|---|---|---|---|---|
| | Normally Acceptable | Conditionally Acceptable | Normally Unacceptable | Clearly Unacceptable |
| Residential-Low Density, Single-Family, Duplex, Mobile Homes | 50 – 60 | 55 - 70 | 70 – 75 | 75 – 85 |
| Residential – Multiple Family | 50 – 65 | 60 – 70 | 70 – 75 | 70 – 85 |
| Transient Lodging – Motel, Hotels | 50 – 65 | 60 – 70 | 70 – 80 | 80 – 85 |
| Schools, Libraries, Churches, Hospitals, Nursing Homes | 50 – 70 | 60 – 70 | 70 – 80 | 80 – 85 |
| Auditoriums, Concert Halls, Amphitheaters | NA | 50 – 70 | NA | 65 – 85 |
| Sports Arenas, Outdoor Spectator Sports | NA | 50 – 75 | NA | 70 – 85 |
| Playgrounds, Neighborhood Parks | 50 – 70 | NA | 67.5 – 77.5 | 72.5 – 85 |
| Golf Courses, Riding Stables, Water Recreation, Cemeteries | 50 – 70 | NA | 70 – 80 | 80 – 85 |
| Office Buildings, Business Commercial and Professional | 50 – 70 | 67.5 – 77.5 | 75 – 85 | NA |
| Industrial, Manufacturing, Utilities, Agriculture | 50 – 75 | 70 – 80 | 75 – 85 | NA |

CNEL = community noise equivalent level; NA = not applicable

NORMALLY ACCEPTABLE: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

CONDITIONALLY ACCEPTABLE: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features have been included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning, will normally suffice.

NORMALLY UNACCEPTABLE: New construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise-insulation features must be included in the design.

CLEARLY UNACCEPTABLE: New construction or development should generally not be undertaken.

Source: Office of Planning and Research, California, *General Plan Guidelines,* October 2003.

## 4.3 LOCAL

### KERN COUNTY GENERAL PLAN

The Kern County General Plan Noise Element was updated in June 2004. The Noise Element identifies goals, policies, and implementation measures that are used to guide development with regard to noise. The Kern County General Plan Noise Element identifies both residential and park/recreational areas as noise sensitive. In noise sensitive areas, the noise generated by new projects is to be mitigated to 65 dB $L_{dn}$ or less in outdoor activity areas and 45 dB $L_{dn}$ or less within

interior living spaces. The following General Plan goals and policies are applicable to the proposed Project:

### Goals

Goal 1. Ensure that residents of Kern County are protected from excessive noise and that moderate levels of noise are maintained.

### Policies

Policy 1. Review discretionary industrial, commercial, or other noise-generating land use projects for compatibility with nearby noise-sensitive land uses.

Policy 2. Require noise level criteria applied to all categories of land uses to be consistent with the recommendations of the California Division of Occupational Safety and Health (DOSH).

Policy 4. Utilize good land use planning principles to reduce conflicts related to noise emissions.

Policy 5. Prohibit new noise-sensitive land uses in noise-impacted areas unless effective mitigation measures are incorporated into the project design. Such mitigation shall be designed to reduce noise to the following levels:

a. 65 dB $L_{dn}$ or less in outdoor activity areas.

b. 45 dB $L_{dn}$ or less within living spaces or other noise sensitive interior spaces.

Policy 6. Ensure that new development in the vicinity of airports will be compatible with existing and projected airport noise levels as set forth in the ALUCP.

Policy 7. Employ the best available methods of noise control.

Policy 10. The County should require acoustical analysis for energy project proposals that might impact sensitive and highly-sensitive uses in accordance with the Noise Element of the General Plan.

### Implementation Measures

Measure A. Utilize zoning regulations to assist in achieving noise-compatible land use patterns.

Measure C. Review discretionary development plans, programs and proposals, including those initiated by both the public and private sectors, to ascertain and ensure their conformance to the policies outlined in this element.

Measure F. Require proposed commercial and industrial uses or operations to be designed or arranged so that they will not subject residential or other noise sensitive land uses to exterior noise levels in excess of 65 dB $L_{dn}$ and interior noise levels in excess of 45 dBA $L_{dn}$.

Measure G. At the time of any discretionary approval, such as a request for a General Plan Amendment, zone change or subdivision, the developer may be required to submit an acoustical report indicating the means by which the developer proposes to comply with the noise standards. The acoustical report shall:

a. Be the responsibility of the applicant.

b. Be prepared by a qualified acoustical consultant experienced in the fields of environmental noise assessment and architectural acoustics.

c. Be subject to the review and approval of the Kern County Planning Department and the Environmental Health Services Department. All recommendations therein shall be complied with prior to final approval of the project.

Measure I. Noise analyses shall include recommended mitigation measure, if required, and shall:

a. Include representative noise level measurements with sufficient sampling periods and location to adequately describe local conditions.

b. Include estimated noise levels, in terms of CNEL, for existing and projected future (10–20 years hence) conditions, with a comparison made to the adopted policies of the Noise Element.

c. Include recommendations for appropriate mitigation to achieve compliance with the adopted polices and standards of the Noise Element.

d. Include estimates of noise exposure after the prescribed mitigation measures have been implemented. If compliance with the adopted standards and policies of the Noise Element will not be achieved, a rationale for acceptance of this project must be provided.

Measure J. Develop implementation procedures to ensure that requirements imposed pursuant to the findings of an acoustical analysis are conducted as part of the project permitting process.

### KERN COUNTY NOISE ORDINANCE

The Noise Control Ordinance in the Kern County Code (Section 8.36.020 et seq.) prohibits a variety of nuisance noises. Construction-related noise is regulated by means of a limitation on the hours of construction activity for projects located within 1,000 feet of an occupied residential dwelling. In such cases, construction is prohibited between the hours of 9:00 p.m. and 6:00 a.m. on weekdays and 9:00 p.m. and 8:00 a.m. on weekends. However, the following exceptions are permitted:

1. The resource management director or his designated representative may for good cause exempt some construction work for a limited time.

2. Emergency work is exempt from this chapter.

## WILLOW SPRINGS SPECIFIC PLAN

The Willow Springs Specific Plan Update establishes a maximum desired ambient noise level standard of 65 CNEL for sensitive uses. For new industrial uses, the noise levels shall be measured from the property line closest to residences or planned residential areas.

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# 5.0 SIGNIFICANCE CRITERIA

## 5.1 CEQA CRITERIA

Appendix G of the *State CEQA Guidelines* contains analysis guidelines related to the assessment of noise impacts. These guidelines have been utilized as thresholds of significance for this analysis. As stated in Appendix G, a project would create a significant environmental impact if it would:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies (refer to Impact NOI-1);
- Generation of excessive groundborne vibration or groundborne noise levels (refer to Impact NOI-2); and
- For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels (refer to Impact NOI-3).

## 5.2 METHODOLOGY

Due to the localized nature of noise and proximity to sensitive receptors, noise impacts associated with each individual Solar Facility are analyzed in this report. In addition, the combined acoustical effect of the simultaneous construction and operation of both Solar Facilities (i.e., the "Project") is provided. The Appendix G CEQA thresholds were used to analyze if the two individual Solar Facilities and the Project would have a significant noise impact.

### CONSTRUCTION

Noise and vibration generated during construction of each individual Solar Facility and the proposed Project were assessed using a number of variables, including construction activity locations, equipment types, duration of construction, vehicular access, workforce, and distances to nearest sensitive receptors. Construction noise levels were calculated using the construction equipment load factors and horsepower information from the Federal Highway Administration's (FHWA's) Roadway Construction Model User's Guide (January 2006). Typical construction equipment noise and vibration levels are provided and are projected at the nearest sensitive receptors in relation to the closest construction activity area. In general, construction equipment noise and vibration levels significantly attenuate with an increase in distance to the nearest sensitive receptor. Construction duration at various locations in the Project area was also given consideration to assess noise and vibration exposure to sensitive receptors. Workforce and vehicular traffic generated during construction are discussed to assess the potential for traffic noise impacts on local roadways and sensitive receptors in the Project area. All potential construction noise impacts are compared to the thresholds and provisions of the County of Kern

Noise Ordinance and Noise Element, and CEQA significance thresholds to determine the severity of impacts.

## OPERATION

Noise impacts from operational activities associated with each individual Solar Facility and the proposed Project were analyzed based on the type, location, and anticipated noise levels of on-site solar equipment and other equipment, distances to the nearest sensitive receptors, gen-tie line operation, and hours of operation. Operational noise levels were manually calculated using reference noise levels and distance attenuation based on the estimated source-receptor distance. Combined noise levels were manually calculated using logarithmic scale. The noise levels related to operational activities associated with each individual Solar Facility and the proposed Project are compared to the provisions of the County of Kern Noise Ordinance and Noise Element, and applicable CEQA thresholds and significance criteria.

# 6.0 ACOUSTICAL ANALYSIS

## NOI-1 GENERATION OF A SUBSTANTIAL TEMPORARY OR PERMANENT INCREASE IN AMBIENT NOISE LEVELS IN THE VICINITY OF THE PROJECT IN EXCESS OF STANDARDS ESTABLISHED IN THE LOCAL GENERAL PLAN OR NOISE ORDINANCE, OR APPLICABLE STANDARDS OF OTHER AGENCIES.

*(This impact statement corresponds with checklist items a and c of the Kern County Environmental Checklist Form Noise section)*

### CHAPARRAL SOLAR FACILITY

### Construction

Construction activities associated with the Chaparral Solar Facility would include move-on (laydown, construction trailers, and parking area), site preparation and grading, underground work (trenching), substation construction, electrical line installation, system installation, and cleanup/testing/restoration. Construction activities would generally occur in defined construction areas with noise emanating from various points rather than occurring over the entire Facility simultaneously. Noise levels would attenuate as construction activity moves further away from the Facility boundaries due to distance divergence factors. Construction activities for Chaparral Solar Facility is anticipated to take 12 months and would comply with the provisions of County Municipal Code Chapter 8.36.020.

Assuming a conservative scenario where all construction equipment per activity would be operating simultaneously and in the same location, construction noise levels for the noisiest phase of construction (system installation) could reach up to 93 dBA $L_{eq}$ 50 feet from the source; refer to Table 8, *Chaparral Solar Construction Noise Levels*. The nearest sensitive receptors (residential uses) would be located approximately 120 to 1,295 feet from the closest construction area (depending on which construction activity is occurring). As shown in Table 8, construction noise levels would range from 62 dBA $L_{eq}$ to 85 dBA $L_{eq}$ at the closest sensitive receptors during construction of the Chaparral Solar Facility assuming all construction equipment would be operating simultaneously and performing work along the construction area boundary nearest the receptor. However, this is a conservative estimate as equipment and trucks would be moving across the site at various times and distances from nearest sensitive receptors, reducing the composite construction noise perceived off-site.

Construction noise would be short-term in nature and cease upon completion of the construction phase. In addition, the County does not have construction noise limits. As such, construction of the Chaparral Solar Facility would not result in a substantial temporary increase in ambient noise levels noise levels in excess of local noise standards. However, as shown in Table 8, noise levels at nearby sensitive receptors would be increased compared to existing conditions (see Table 5) during construction of the Chaparral Solar Facility. Therefore, it is recommended the Chaparral Solar Facility implement Mitigation Measure NOI-1 to reduce short-term construction noise levels. Mitigation Measure NOI-1 includes a Noise Control Plan (to be implemented during Chaparral Solar Facility construction activities) that would reduce short-term noise levels at

sensitive receptors through various noise reduction and control measures. Such measures include positioning equipment staging areas away from noise-sensitive receptors; limiting heavy equipment activity adjacent to residences or other sensitive receptors to the shortest possible period required to complete the work activity; minimizing construction equipment idling; and complying with the allowable construction hours established in County Municipal Code Chapter 8.36.020, among others.

**Table 8**
**Chaparral Solar Construction Noise Levels**

| Construction Activity | Combined Noise Level (dBA $L_{eq}$) at 50 feet[1] | Nearest Sensitive Receptor[2] | Distance to Nearest Receptor (feet)[3] | Combined $L_{eq}$ at Nearest Sensitive Receptor[4] |
|---|---|---|---|---|
| Move-on (laydown, construction trailers, and parking area) | 89 | #19 | 1,295 | 62 |
| Gen-Tie/Electrical Collection Line Installation | 88 | #1 | 585 | 65 |
| Site Preparation and Grading | 92 | #3 | 120 | 85 |
| Underground Work (trenching) | 88 | #3 | 120 | 80 |
| System Installation | 93 | #3 | 120 | 85 |
| Cleanup/Testing/Restoration | 87 | #3 | 120 | 79 |

Notes:
1. Assuming a conservative scenario where all construction equipment per activity would be operating simultaneously and in the same location.
2. These receptors correspond with those shown in Table 4 and Exhibit 6.
3. Distance measured from the closest Chaparral construction area to the central portion of the sensitive receptor's outdoor activity area (e.g., backyard, front yard, swimming pool area, etc.). These distances may differ compared to those shown in Table 4 based on the location of the specific construction activity occurring.
4. Construction noise levels would diminish rapidly with distance from each construction site at a rate of approximately 6 dBA per each doubling of the distance, with additional attenuation from topography, ground conditions, and presence of man-made (e.g., buildings, walls) and/or natural barriers located in the line of sight between the noise source and the nearest sensitive receptor.

Source: Federal Highway Administration, *Roadway Construction Noise Model (FHWA-HEP-05-054)*, January 2006.

## Operation and Maintenance

Operation and maintenance of the Chaparral Solar Facility would include permanent and temporary noise sources associated with the solar PV systems, electrical collection lines, O&M building, parking area, aboveground water storage tank, permanent water lines, septic system, and other associated facilities, such as the Energy Storage Systems (ESS).

The solar PV arrays could include operation of single axis trackers. Noise from each tracker motor ranges from approximately 62 dBA to 63 dBA at 1-meter distances.[5] This is considered an appropriate reference noise level due to the low intensity of the motor. Each set of tracker motors would operate for a short period of time (normally two seconds each per tracker) and pauses for a longer period of time (about five minutes) before operating again. This process only occurs during daylight hours. Due to the dispersed layout of tracker motors, their distance from sensitive receptors, and the intermittent noise generating activity, composite noise levels were not calculated. The nearest sensitive noise receptor to any tracker would be residences (Receptors #1, #2, and #3) located approximately 200 feet to the east of the closest Chaparral Solar Facility PV array. At this distance, tracker noise would be approximately 27.3 dBA and would not exceed the County's 65 dBA $L_{dn}$ noise level standard for residential uses.

The new electrical on-site and off-site collection lines connecting to the Chaparral Solar Facility would also generate audible corona noise. Audible noise transmission and distribution lines are

[5] County of San Diego, *Desert Green Solar Farm Noise Assessment*, February 20, 2013.

a function of the line voltage, the conductor design, and weather conditions. Corona noise from 230 kV lines has been reported at 40 dBA right below the line. Even though any electrical transmission or distribution line that would be installed on-site and off-site as part of the Chaparral Solar Facility would have the potential to emit electrical discharge (or corona discharge), audible noise from corona discharge is expected to be within the range of 40 dBA or below; therefore, it would be also below the Kern County noise standard of 65 dBA $L_{dn}$ for residential uses. These levels are expected to be insignificant compared to other higher voltage lines currently existing and under construction in the area.

Additional permanent noise sources from the Chaparral Solar Facility would include small-scale inverters, medium voltage transformers, and ESS. Small-scale inverters and medium voltage transformers would emit nominal noise levels that would attenuate over distance, resulting in inaudible noise at the nearest sensitive receptors (over 100 feet away). The primary noise source associated with ESS operations would be the use of HVAC units (the ESS does not generate noise itself). The Chaparral Solar Facility would utilize an ESS capable of storing up to 1000 MWh, which would require approximately 155 HVAC units to operate simultaneously. Standard HVAC units for similar energy storage projects produce 68 dBA at a distance of 50 feet during full operation. The nearest sensitive receptor to the proposed ESS area at the Chaparral Solar Facility is located approximately 2,205 feet to the northwest[6] (Receptor #39). At this distance, noise levels from the ESS HVAC units would be approximately 35.1 dBA, which is below the County's 65 dBA $L_{dn}$ outdoor noise standard for residential uses.

Chaparral Solar Facility operations would require up to 10 full-time equivalent (FTE) personnel (or personnel hours totaling 10 FTE positions) consisting of plant operators and maintenance technicians. The FTE staff would conduct routine visits for panel cleaning and repairs; panel washing could be done one or two times per year. Limited deliveries would be necessary for replacement PV modules and equipment during Chaparral Solar Facility operations. These activities are not expected to occur on a daily basis and would not generate a significant amount of traffic or create a substantial increase of vehicular noise in the area. Any increase in traffic would be minimal and sporadic; therefore, impacts from vehicular noise would be minimal.

The operation of solar trackers, new electrical collection lines, inverters, medium voltage transformers, substation, and ESS would not generate permanent noise levels in excess of noise standards or create a substantial increase in ambient noise levels within the Chaparral Solar Facility. In addition, operational maintenance activities would generate minimal noise.

## WILLOW SPRINGS SUBSTATION IMPROVEMENTS

As discussed in Section 1.3, *Interconnection to the Statewide Grid*, new 230 kV HV transformer(s), breakers, buswork, site control centers (SCC) and other associated equipment may be installed or modified in the Willow Springs Solar Project Substation for the Chaparral Solar Facility. The closest sensitive receptor (Receptor #39) is located approximately 0.50-mile to the northwest of

[6] This is the approximate distance from the receptor to the proposed ESS area located to the northwest of the 110th Street West and Holiday Avenue intersection.

the Willow Springs Substation. At this distance, construction and operational noise levels associated with improvements to the Willow Springs Substation would be inaudible.

### Decommissioning

At such time the Chaparral Solar Facility is decommissioned, equipment operation and site restoration activities would result in a temporary increase in ambient noise levels in the Project area. Given the fact that much of the construction equipment necessary to construct the Chaparral Solar Facility would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Chaparral Solar Facility construction activities. Similar to the construction noise analysis above, decommissioning of the Chaparral Solar Facility would result in potentially increased noise levels compared to existing conditions. Therefore, it is recommended that Mitigation Measure NOI-1 be implemented during decommissioning activities to reduce temporary noise levels at off-site receptors.

## RABBITBRUSH SOLAR FACILITY

### Construction

Construction activities associated with the Rabbitbrush Solar Facility would include move-on (laydown, construction trailers, and parking area), electrical collection line installation, site preparation and grading, underground work (trenching), system installation, and cleanup/ testing/restoration. Construction activities would generally occur in defined construction areas with noise emanating from various points rather than occurring over the entire Rabbitbrush Solar Facility simultaneously. Noise levels would attenuate as construction activity moves further away from the Rabbitbrush Solar Facility boundaries due to distance divergence factors. Construction activities for Rabbitbrush Solar Facility is anticipated to take 12 months and would comply with the provisions of County Municipal Code Chapter 8.36.020. Assuming a conservative scenario where all construction equipment per activity would be operating simultaneously and in the same location, construction noise levels for the noisiest phase of construction (system installation) could reach up to 93 dBA $L_{eq}$ 50 feet from the source; refer to Table 9, *Rabbitbrush Solar Construction Noise Levels*.

**Table 9**
**Rabbitbrush Solar Construction Noise Levels**

| Construction Activity | Combined Noise Level (dBA $L_{eq}$) at 50 feet[1] | Nearest Sensitive Receptor[2] | Distance to Nearest Receptor (feet)[2] | Combined $L_{eq}$ at Nearest Sensitive Receptor[3] |
|---|---|---|---|---|
| Move-on (laydown, construction trailers, and parking area) | 89 | #17 | 2,760 | 55 |
| Site Preparation and Grading | 92 | #17, #19 | 170 | 82 |
| Underground Work (trenching) | 88 | #17, #19 | 170 | 77 |
| System Installation | 93 | #17, #19 | 170 | 82 |
| Cleanup/Testing/Restoration | 87 | #17, #19 | 170 | 76 |

Notes:
1. Assuming a conservative scenario where all construction equipment per activity would be operating simultaneously and in the same location.
2. These receptors correspond with those shown in Table 4 and Exhibit 6.
3. Distance measured from the closest Rabbitbrush construction area to the central portion of the sensitive receptor's outdoor activity area (e.g., backyard, front yard, swimming pool area, etc.). These distances may differ compared to those shown in Table 4 based on the location of the specific construction activity occurring.
4. Construction noise levels would diminish rapidly with distance from each construction site at a rate of approximately 6 dBA per each doubling of the distance, with additional attenuation from topography, ground conditions, and presence of man-made (e.g., buildings, walls) and/or natural barriers located in the line of sight between the noise source and the nearest sensitive receptor.

Source: Federal Highway Administration, *Roadway Construction Noise Model (FHWA-HEP-05-054)*, January 2006.

The nearest sensitive receptor (residences, Receptors #17 and #19) would be located approximately 170 to 2,760 feet from the closest Rabbitbrush Solar Facility construction area (depending on which construction activity is occurring). As shown in Table 9, construction noise levels would range from 55 dBA $L_{eq}$ to 82 dBA $L_{eq}$ at this receptor during construction of the Rabbitbrush Solar Facility assuming all construction equipment would be operating simultaneously and performing work along the construction area boundary nearest the receptor. However, this is a conservative estimate as equipment and trucks would be moving across the site at various times and distances from nearest sensitive receptors, reducing the composite construction noise perceived off-site.

Construction noise would be short-term in nature and cease upon completion of the construction phase. In addition, the County does not have construction noise limits. As such, construction of the Rabbitbrush Solar Facility would not result in a substantial temporary increase in ambient noise levels noise levels in excess of local noise standards. However, as shown in Table 9, noise levels at nearby sensitive receptors would be increased compared to existing conditions (see Table 5) during construction of Rabbitbrush Solar Facility. Therefore, it is recommended the Rabbitbrush Solar Facility implement Mitigation Measure NOI-1 to reduce short-term construction noise levels. Mitigation Measure NOI-1 includes a Noise Control Plan (to be implemented during Rabbitbrush Solar Facility construction activities) that would reduce short-term noise levels at sensitive receptors through various noise reduction and control measures. Such measures include positioning equipment staging areas away from noise-sensitive receptors; limiting heavy equipment activity adjacent to residences or other sensitive receptors to the shortest possible period required to complete the work activity; and minimizing construction equipment idling, among others.

## Operation and Maintenance

Operation and maintenance of the Rabbitbrush Solar Facility would include permanent and temporary noise sources associated with the solar PV systems, electrical collection lines, O&M building, parking area, aboveground water storage tank, permanent water lines, septic system, and other associated facilities, such as the ESS.

The solar PV arrays could include operation of single axis trackers. Noise from each tracker motor ranges from 62 dBA to 63 dBA at 1-meter distances. This is considered an appropriate reference noise level due to the low intensity of the motor. Each set of tracker motors would operate for a short period of time (normally two seconds each per tracker) and pauses for a longer period of time (about five minutes) before operating again. This process only occurs during daylight hours. Due to the dispersed layout of tracker motors, their distance from sensitive receptors, and the intermittent noise generating activity, composite noise levels were not calculated. The nearest sensitive noise receptor to any tracker would be residences (Receptors #17 and #19) located approximately 170 feet to the east and west of the Rabbitbrush Solar Facility. The attenuated sound levels (from the trackers as a point source) at this distance would be approximately 28.7 dBA, which is below the County's 65 dBA $L_{dn}$ outdoor noise level standard for residential uses.

The new electrical on-site and off-site collection lines connecting to the Rabbitbrush Solar Facility would also generate audible corona noise. Audible noise transmission and distribution lines are a function of the line voltage, the conductor design, and weather conditions. Corona noise from 230 kV lines has been reported at 40 dBA right below the line. Even though any electrical transmission or distribution line that would be installed on-site and off-site as part of the Rabbitbrush Solar Facility would have the potential to emit electrical discharge (or corona discharge), audible noise from corona discharge is expected to be within the range of 40 dBA or below; therefore, it would be also below the Kern County noise standard of 65 dBA $L_{dn}$. These levels are expected to be insignificant compared to other higher voltage lines currently existing and under construction in the area.

Additional permanent noise sources from the Rabbitbrush Solar Facility would include small-scale inverters, medium voltage transformers, and ESS. Small-scale inverters and medium voltage transformers would emit nominal noise levels that would attenuate over distance, resulting in inaudible noise at the nearest sensitive receptors (over operational noise below the Kern County noise standard of 65 dBA $L_{dn}$ at the nearest sensitive receptors (approximately 170 feet away). The primary noise source associated with ESS operations would be the use of HVAC units (the ESS does not generate noise itself). The Rabbitbrush Solar Facility would utilize an ESS capable of storing up to 1000 MWh, which would require approximately 155 HVAC units to operate simultaneously. Standard HVAC units for similar energy storage projects produce 68 dBA at a distance of 50 feet during full operation. The nearest sensitive receptor to the proposed ESS area at the Rabbitbrush Solar Facility is located approximately 0.54-mile to the south along Rosamond Boulevard (Receptor #14). At this distance, noise levels from the ESS HVAC units would be 32.9 dBA, which is below the County's 65 dBA $L_{dn}$ outdoor noise standard for residential uses.

Rabbitbrush Solar Facility operations would require up to 10 full-time equivalent (FTE) personnel (or personnel hours totaling 10 FTE positions) consisting of plant operators and maintenance technicians. The FTE staff would conduct routine visits for panel cleaning and repairs; panel washing could be done one or two times per year. Limited deliveries would be necessary for replacement PV modules and equipment during Rabbitbrush Solar Facility operation. These activities are not expected to occur on a daily basis and would not generate a significant amount

of traffic or create a substantial increase of vehicular noise in the area. Any increase in traffic would be minimal and sporadic; therefore, impacts from vehicular noise would be minimal.

The operation of solar trackers, new electrical collection lines, inverters, medium voltage transformers, substation, and ESS would not generate permanent noise levels in excess of noise standards or create a substantial increase in ambient noise levels within the Rabbitbrush Solar Facility. In addition, operational maintenance activities would generate minimal noise.

## ROSAMOND SUBSTATION IMPROVEMENTS

New 230 kV HV transformer(s), breakers, buswork, site control centers SCC and other associated equipment may be installed or modified in the Rosamond Springs Solar Project Substation for the Rabbitbrush Solar Facility. The closest sensitive receptor is a residence (Receptor #36) located approximately 480 feet south of where construction work will occur at the Rosamond Substation. At this distance, it is estimated that construction noise levels associated with the proposed Rosamond Substation improvements could reach up to 70 dBA $L_{eq}$ at this receptor assuming all construction equipment would be operating simultaneously and performing work along the Project boundary nearest the receptor.[7] As such, noise levels from Rosamond Substation Improvements could temporarily exceed existing ambient noise levels (see Table 5) at nearby sensitive receptors. Therefore, it is recommended that Mitigation Measure NOI-1 be implemented during Rosamond Substation construction activities to reduce short-term construction noise levels at off-site receptors. Mitigation Measure NOI-1 includes a Noise Control Plan that would reduce short-term noise levels at sensitive receptors through various noise reduction and control measures. Such measures include positioning equipment staging areas away from noise-sensitive receptors; limiting heavy equipment activity adjacent to residences or other sensitive receptors to the shortest possible period required to complete the work activity; minimizing construction equipment idling; and complying with the allowable construction hours established in County Municipal Code Chapter 8.36.020, among others.

Due to the minor improvements to the Rosamond Substation, operational noise levels from the new 230 kV HV transformer(s), breakers, buswork, and SCC would nominally increase compared to existing conditions and are not expected to exceed the County's 65 dBA $L_{dn}$ noise level standard.

### Decommissioning

At such time the Rabbitbrush Solar Facility is decommissioned, equipment operation and site restoration activities would result in a temporary increase in ambient noise levels in the Project area. Given the fact that much of the construction equipment necessary to construct the Rabbitbrush Solar Facility would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Rabbitbrush Solar Facility construction activities. Similar to the construction noise analysis above, decommissioning of the Rabbitbrush Solar Facility would result in potentially increased noise levels compared to existing conditions. Therefore, it is recommended that Mitigation Measure

[7] This is a conservative estimate as equipment and trucks would be moving across the site at various times and distances from nearest sensitive receptors, reducing the composite construction noise perceived off-site.

NOI-1 be implemented during decommissioning activities to reduce temporary noise levels at off-site receptors.

## AVEP PROJECT IMPACT

### Construction

Assuming both Solar Facilities would be constructed simultaneously,[8] the combined effect of construction activities at Chaparral and Rabbitbrush Facilities may expose sensitive receptors (residential uses) to increased noise levels over a span of 12 to 24 months. However, most residential uses in the Project area would only be exposed to construction noise from one of the Solar Facilities (i.e., either Chaparral or Rabbitbrush) due to their location and distance to the other Facilities. The most impacted sensitive receptor would be a residence (Receptor #19) located approximately 170 feet east of the Rabbitbrush Solar Facility, 1,250 feet west of the Chaparral Solar Facility, and 360 feet from collector line construction. Simultaneous construction of the Chaparral Solar Facility, Rabbitbrush Facility, and collector line construction could generate a combined noise level up to 82.8 dBA[9,10] at this residence. As such, Project construction noise levels could temporarily exceed existing ambient noise levels in the Project area (see Table 5) at off-site receptors. However, implementation of the Noise Control Plan outlined in recommended Mitigation Measure NOI-1 would help reduce the Project's short-term construction noise levels.

### Operation and Maintenance

As discussed above, the operation and maintenance activities associated with both Solar Facilities (Chaparral and Rabbitbrush) would result in nominal noise impacts to surrounding sensitive receptors. The combined effect of both Facilities operating simultaneously would also result in minimal operational noise impacts. Similar to the AVEP Project construction noise impact analysis above, the most impacted sensitive receptor during Project operations would be a residence (Receptor #19) located approximately 1,250 feet from the Chaparral Solar Facility PV arrays, 170 feet from the Rabbitbrush Solar Facility PV arrays, 360 feet from the proposed gen-tie line alignment, and between 0.50-mile and 2.2 miles from the proposed ESS HVAC units. As discussed above, noise levels from tracker PV array motors range from 62 dBA to 63 dBA at 1-meter distances, corona noise from the gen-tie line would be approximately 40 dBA right below the line, and the simultaneous operation of 155 ESS HVAC units is approximately 68 dBA at a distance of 50 feet. The combined noise level of these sources from each Solar Facility would be approximately 37 dBA[11] at the closest sensitive receptor (Receptor #19), which is below the County's 65 dBA $L_{dn}$ outdoor noise level standard for residential uses.

Other stationary operational noise from the Project would include small-scale inverters and medium voltage transformers. These point sources would emit nominal noise levels that would

[8] With overlapping construction activities, as shown in Tables 1 and 2 (e.g., the Move-On phase for the Chaparral and Rabbitbrush Solar Facilities may overlap).

[9] Based on the logarithmic scale of combined noise levels from the simultaneous construction of the Chaparral Solar Facility (system installation), Rabbitbrush Facility (system installation), and gen-tie line construction; refer to the noise calculation data in Appendix A.

[10] This noise level represents the worst-case noise scenario for the simultaneous construction of the Chaparral and Rabbitbrush Solar Facilities, as the residence located at Receptor #19 would be the closest receptor to simultaneous solar Facility construction activities.

[11] Based on the logarithmic scale of combined noise levels from the simultaneous operation of the Chaparral Solar Facility PV array, Rabbitbrush Facility PV array, and gen-tie line; refer to the noise calculation data in Appendix A.

attenuate over distance, resulting in operational noise below the Kern County noise standard of 65 dBA $L_{dn}$ at the nearest sensitive receptors (over 100 feet away). Project operations would require up to 20 FTE personnel (or personnel hours totaling 20 FTE positions) consisting of plant operators and maintenance technicians to manage and operate the two Solar Facilities. The FTE staff would conduct routine visits for panel cleaning and repairs; panel washing could be done one or two times per year. Limited deliveries would be necessary for replacement PV modules and equipment during Project operation. These activities are not expected to occur on a daily basis and would not generate a significant amount of traffic or create a substantial increase of vehicular noise in the area. Any increase in traffic would be minimal and sporadic; therefore, impacts from vehicular noise would be minimal. As such, the Project would not result in a substantial permanent increase in ambient noise levels noise levels in excess of local noise standards.

### WILLOW SPRINGS AND ROSAMOND SUBSTATION IMPROVEMENTS

As discussed above, the Project would require off-site improvements at the Willow Springs and Rosamond Substations, including new 230 kV HV transformer(s), breakers, buswork, site control centers SCC and other associated equipment. Due to the off-site location and distance from these substations to the Solar Facilities, the combined acoustical effect from construction activities at the Willow Springs and Rosamond Substations would not contribute to the overall Project construction noise levels. Rather, construction noise from the proposed Willow Springs and Rosamond Substation improvements would be localized; refer to the construction noise analysis for each individual Solar Facility above.

In addition, due to the minor improvements to the Willow Springs and Rosamond Substations, operational noise levels from the new 230 kV HV transformer(s), breakers, buswork, and SCC would nominally increase compared to existing conditions and are not expected to exceed the County's 65 dBA $L_{dn}$ noise level standard. Thus, construction noise from the proposed Willow Springs and Rosamond Substation improvements would not result in a substantial temporary increase in ambient noise levels noise levels in excess of local noise standards.

## Decommissioning

At such time the Chaparral and Rabbitbrush Solar Facilities are decommissioned, equipment operation and site restoration activities would result in temporary noise increases. Given the fact that much of the construction equipment necessary to construct the Project would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Project's construction activities. Similar to the construction noise analysis above, decommissioning of the Project would temporarily result in increased noise levels compared to existing conditions (see Table 5). However, implementation of Mitigation Measure NOI-1 would help reduce noise levels at off-site receptors during Project decommissioning activities.

## NOI-2 GENERATION OF EXCESSIVE GROUNDBORNE VIBRATION OR GROUNDBORNE NOISE LEVELS.

*(This impact statement corresponds with checklist item b of the Kern County Environmental Checklist Form Noise section)*

## CHAPARRAL SOLAR FACILITY

### Construction

Construction of the Chaparral Solar Facility, including the PV arrays, substation, O&M building, and generation-tie line would not require blasting; however, impact-post driving or drilling would be utilized for installation of the PV arrays foundations support posts and could cause vibration impacts at close distances. While these construction activities would result in some minor amounts of groundborne vibration, such groundborne noise or vibration would attenuate rapidly from the source and would not be generally perceptible outside of the construction areas.

The FTA has published standard vibration velocities for construction equipment operations. In general, the FTA architectural damage criterion for continuous vibrations (i.e., 0.2 inch/second) appears to be conservative. The types of construction vibration impact include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. This distance can vary substantially depending on the soil composition and underground geological layer between vibration source and receiver. The vibration produced by construction equipment, is illustrated in Table 10, *Typical Vibration Levels for Construction Equipment*.

**Table 10**
**Typical Vibration Levels for Construction Equipment**

| Equipment | Approximate peak particle velocity at 25 feet (inches/second) | Approximate peak particle velocity at 50 feet (inches/second) | Approximate peak particle velocity at 100 feet (inches/second) |
|---|---|---|---|
| Large bulldozer | 0.089 | 0.031 | 0.011 |
| Loaded trucks | 0.076 | 0.027 | 0.010 |
| Small bulldozer | 0.003 | 0.001 | 0.000 |
| Auger/drill rigs | 0.089 | 0.031 | 0.011 |
| Jackhammer | 0.035 | 0.012 | 0.004 |
| Vibratory hammer | 0.035 | 0.012 | 0.004 |
| Vibratory compactor/roller | 0.003 | 0.001 | 0.0004 |
| Pile Driver (impact) | 0.644 | 0.228 | 0.081 |

Notes:
1. Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018. Table 7-4.
2. Calculated using the following formula:

$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

where: PPV (equip) = the peak particle velocity in in/sec of the equipment adjusted for the distance
PPV (ref) = the reference vibration level in in/sec from Table 12-2 of the FTA *Transit Noise and Vibration Impact Assessment Guidelines*
D = the distance from the equipment to the receiver

Source: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

Ground-borne vibration decreases rapidly with distance. As indicated in Table 10, based on the FTA data, vibration velocities from typical heavy construction equipment operations that would be used during Chaparral Solar Facility construction range from 0.003 to 0.644 inch-per-second

peak particle velocity (PPV) at 25 feet from the source of activity. Vibration levels from post driving would be conservatively approximated by the pile driver category. It should be noted, however, that post driving would only occur during construction of the PV modules on-site; construction of the gen-tie line would not require the use of post drivers. Post drivers used during construction would be crawler or truck mounted, which generally result in less impact (i.e., lower vibration levels).

The nearest off-site structure to the Chaparral Solar Facility construction area is a residence (Receptor #3) located approximately 120 feet east along Rosamond Boulevard/100th Street West. At this distance, vibration velocities would range from approximately 0.00 to 0.061 inch-per-second PPV. Therefore, as each of these values are below the 0.2 inch-per-second PPV significance threshold for non-engineered timber and masonry buildings and the 0.4 inch-per-second PPV human annoyance criteria, no sources of groundborne vibration would be expected to affect receptors outside of the work areas, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels.

### Operation and Maintenance

Once constructed, the Chaparral Solar Facility would have O&M components that may generate vibration, such as HVAC systems from each ESS, maintenance vehicles, small-scale inverters, medium voltage transformers, and substation transformers. However, vibration from these operational sources would generally occur within 50 feet of the generating source due to the rapid attenuation of vibration over distance. The nearest sensitive receptors are located over 100 feet from the Chaparral Solar Facility boundary, and thus, operational vibration levels at the nearest off-site receptors would be imperceptible.

## WILLOW SPRINGS SUBSTATION IMPROVEMENTS

New 230 kV HV transformer(s), breakers, buswork, SCC and other associated equipment may be installed or modified in the Willow Springs Solar Project Substation for the Chaparral Solar Facility. The closest sensitive receptor (Receptor #39) is located approximately 0.50-mile to the northwest of the Willow Springs Substation. At this distance, construction and operational vibration levels associated with improvements to the Willow Springs Substation would be imperceptible.

### Decommissioning

At such time the Chaparral Solar Facility is decommissioned, equipment operation and site restoration activities would result in temporary vibration impacts. Given the fact that much of the construction equipment necessary to construct the Chaparral Solar Facility would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Chaparral Solar Facility construction activities. Therefore, decommissioning of the Chaparral Solar Facility would result in unnoticeable vibration levels at off-site receptors.

## RABBITBRUSH SOLAR FACILITY

### Construction

Construction of the Rabbitbrush Solar Facility, including the PV arrays, electrical collection lines, and O&M building would not require blasting; however, impact-post driving or drilling would be utilized for installation of the PV arrays foundations support posts and could cause vibration impacts at close distances. While these construction activities would result in some minor amounts of groundborne vibration, such groundborne noise or vibration would attenuate rapidly from the source and would not be generally perceptible outside of the construction areas. Typical vibration levels produced by construction equipment is shown in Table 10.

As discussed above, ground-borne vibration decreases rapidly with distance. As indicated in Table 10, based on the FTA data, vibration velocities from typical heavy construction equipment operations that would be used during Rabbitbrush Solar Facility construction range from 0.003 to 0.644 inch-per-second peak particle velocity (PPV) at 25 feet from the source of activity. Vibration levels from post driving would be conservatively approximated by the pile driver category. It should be noted, however, that post driving would only occur during construction of the PV modules on-site; construction of the gen-tie line would not require the use of post drivers. Post drivers for Rabbitbrush Solar Facility construction would be crawler or truck mounted, which generally result in less impact (i.e., lower vibration levels).

The nearest off-site structures to the Rabbitbrush Solar Facility construction area are residences (Receptor #17 and #19) located approximately 170 feet to the east and west of the Rabbitbrush Solar Facility. At this distance, vibration velocities would range from approximately 0.00 to 0.044 inch-per-second PPV. Therefore, as each of these values are below the 0.2 inch-per-second PPV significance threshold for non-engineered timber and masonry buildings and the 0.4 inch-per-second PPV human annoyance criteria, no sources of groundborne vibration would be expected to affect receptors outside of the work areas, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels.

### Operation and Maintenance

Once constructed, the Rabbitbrush Solar Facility would have O&M components that may generate vibration, such as HVAC systems from each ESS, maintenance vehicles, small-scale inverters, and medium voltage transformers. However, vibration from these operational sources would generally occur within 50 feet of the generating source due to the rapid attenuation of vibration over distance. The nearest sensitive receptors are located over 100 feet from the Rabbitbrush Solar Facility boundary, and thus, operational vibration levels at the nearest off-site receptors would be imperceptible.

## ROSAMOND SUBSTATION IMPROVEMENTS

New 230 kV HV transformer(s), breakers, buswork, SCC and other associated equipment may be installed or modified in the Rosamond Solar Project Substation for the Rabbitbrush Solar Facility. The closest receptor (Receptor #36) is located approximately 480 feet south of where construction work will occur at the Rosamond Substation. At this distance, short-term construction vibration

levels would be imperceptible and would not exceed the FTA's 0.2 inch-per-second PPV significance threshold or 0.4 inch-per-second PPV human annoyance criteria.

In addition, due to the minor improvements to the Rosamond Substation, operational vibration levels from the new 230 kV HV transformer(s), breakers, buswork, and SCC would nominally increase and would be unnoticeable at the nearest off-site structures.

### Decommissioning

At such time the Rabbitbrush Solar Facility is decommissioned, equipment operation and site restoration activities would result in temporary vibration impacts. Given the fact that much of the construction equipment necessary to construct the Rabbitbrush Solar Facility would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Rabbitbrush Solar Facility construction activities. Therefore, decommissioning of the Rabbitbrush Solar Facility would result in unnoticeable vibration levels at off-site receptors.

## AVEP PROJECT IMPACT

### Construction

As discussed above, Project construction activities would generate a maximum vibration level of 0.061 inch-per-second PPV at the closest sensitive receptor (Receptor #3), which is below the FTA's 0.2 inch-per-second PPV significance threshold and 0.4 inch-per-second PPV human annoyance criteria. Most residential uses in the Project area would only be exposed to construction vibration from one of the Solar Facilities (i.e., either Chaparral or Rabbitbrush) due to their location and distance to the other Solar Facilities. The most impacted receptor from Project construction vibration (i.e., the simultaneous construction of both Solar Facilities) would be a residence (Receptor #19) located approximately 170 feet east of the Rabbitbrush Solar Facility, 1,250 feet west of the Chaparral Solar Facility, and 360 feet from collector line construction areas. However, due to the distance of the proposed construction activities to this receptor, the combined vibration effect of several construction activities would be nominal and would not exceed the FTA 0.2 inch-per-second PPV significance threshold or 0.4 inch-per-second PPV human annoyance criteria.

### Operation and Maintenance

As discussed above, the Chaparral and Rabbitbrush Solar Facilities would have O&M components that may generate vibration, such as HVAC systems from each ESS, maintenance vehicles, small-scale inverters, medium voltage transformers, and substation transformers. However, vibration from these operational sources would generally occur within 50 feet of the generating source due to the rapid attenuation of vibration over distance. The nearest sensitive receptors are located over 100 feet from the Facilities boundaries. Due to distance attenuation from these sources to the surrounding sensitive receptors, the combined vibration effect of both Facilities operating at once would be minimal.

### ROSAMOND AND WILLOW SPRINGS SUBSTATION IMPROVEMENTS

As discussed above, the Project would require off-site improvements at the Willow Springs and Rosamond Substations, including new 230 kV HV transformer(s), breakers, buswork, site control centers SCC and other associated equipment. Due to the off-site location and distance from these substations to the Solar Facilities, the combined effect from construction vibration levels at the Willow Springs and Rosamond Substations would not collectively contribute to a vibration impact. Rather, vibration at the proposed Willow Springs and Rosamond Substation improvements would be localized; refer to the vibration analysis for each individual Solar Facility above.

### Decommissioning

At such time the Chaparral and Rabbitbrush Solar Facilities are decommissioned, equipment operation and site restoration activities would create temporary vibration in the immediate vicinity. Given the fact that much of the construction equipment necessary to construct the Project would also be required to decommission the site, it is reasonable to assume that decommissioning activities would be similar in nature to the Project's construction activities. Similar to the vibration analysis above, decommissioning of the Project would result in unnoticeable vibration levels at off-site receptors.

### NOI-3 PROJECT LOCATED WITHIN THE VICINITY OF A PRIVATE AIRSTRIP OR AN AIRPORT LAND USE PLAN OR, WHERE SUCH A PLAN HAS NOT BEEN ADOPTED, WITHIN TWO MILES OF A PUBLIC AIRPORT OR PUBLIC USE AIRPORT, WOULD THE PROJECT EXPOSE PEOPLE RESIDING OR WORKING IN THE PROJECT AREA TO EXCESSIVE NOISE LEVELS.

*(This impact statement corresponds with checklist item d of the Kern County Environmental Checklist Form Noise section)*

The closest public use airport to the Project area is the Hollywood Burbank Airport (formerly Bob Hope Airport) located in Burbank, California, approximately 44 miles to the south. The closest private airport to the Chaparral and Rabbitbrush Solar Facilities is Lloyd's Landing, approximately 0.5 miles east of Chaparral Solar Facility and three miles northeast of the Rabbitbrush Solar Facility. The Project would not be located within the Kern County Airport Land Use Compatibility Plan or within two miles of a public use airport. Departing and arriving flights at these airports are infrequent and would only temporarily expose construction workers and employees at the Project site to aircraft noise. No impact would occur in this regard.

## CUMULATIVE NOISE ANALYSIS

### SHORT-TERM CONSTRUCTION NOISE IMPACTS

The proposed Project's construction activities, in combination with the construction of other reasonably foreseeable projects in the area could result in increased short-term construction noise levels in the Project area (depending upon the specific timing of the construction of those other projects and proximity to the Project site).

The Kern County Code of Ordinances (Chapter 8.36 – Noise Control) establishes hours of construction and limitations on construction-related noise impacts on adjacent sensitive receptors; noise producing construction activities that are audible to a person with average hearing ability at a distance of 150 feet from the construction site, if the construction site is within 1,000 feet of an occupied residential dwelling, are prohibited between the hours of 9 p.m. to 6 a.m. on weekdays, and 9 p.m. to 8 a.m. on weekends. Such noise producing construction activities occurring outside of these acceptable construction hours is considered to be a violation of the County's noise control ordinance. Implementation of mitigation measure NOI-1 would reduce and minimize construction noise levels and ensure the Project's consistency with the County's noise control ordinance; noise levels would be less than significant on a project level basis. As a result, construction of the proposed Project would not result in a cumulatively considerable contribution to noise impacts at residences located within approximately 1,000 feet of the Project site. At receptor locations further than 1,000 feet from the Project site, Project-generated construction noise would diminish to near ambient levels and would not result in a cumulatively considerable contribution to construction noise levels associated with other construction projects. Therefore, when considered with other past, present, and reasonably foreseeable future projects, the proposed Project would not result in a cumulatively considerable contribution to construction noise impacts.

## LONG-TERM OPERATIONAL NOISE IMPACTS

As discussed in Section 6.0, the long-term noise impacts associated with operation and maintenance of the Project would not result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. Therefore, operational noise from the proposed Project would not be cumulatively considerable and would not contribute to a long-term cumulative noise impact.

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# 7.0 RECOMMENDED MITIGATION MEASURES

**NOI-1** **Noise Control Plan.** The Noise Control Plan shall include the following noise reduction and control measures for the duration of Project construction:

a) Locate equipment staging in areas away from noise-sensitive receptors near the Project area during all Project construction. Where practical, locate stationary equipment such as compressors, generators, and welding machines away from sensitive receptors or behind barriers.

b) Limit heavy equipment activity adjacent to residences or other sensitive receptors to the shortest possible period required to complete the work activity. Operate earth-moving equipment on the Project site as far away from sensitive receptors as possible.

c) Route heavily loaded trucks away from sensitive receptors, if possible. Select streets with fewest sensitive receptors if no alternatives are available.

d) Ensure proper maintenance and working order of equipment and vehicles, according to manufacturer recommendations. Ensure that proper mufflers, intake silencers, and other noise reduction equipment are in place and in good working condition.

e) Minimize construction equipment idling.

f) Encourage workers to reduce noise from back-up alarms (alarms that signal vehicle travel in reverse) in construction vehicles and equipment by using a construction site layout that minimizes the need for back-up vehicles, and by using flagmen as necessary.

g) When possible, use construction equipment specifically designed for low noise emissions (i.e., equipment that is powered by electric or natural gas engines instead of diesel or gasoline reciprocating engines).

h) Project construction shall comply with the allowable hours and provisions of Kern County Noise Ordinance Section 8.36 (Noise Control).

i) Minimize the use of vibratory rollers and packers near sensitive areas.

# 8.0 REFERENCES

## 8.1 LIST OF PREPARERS

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8. Kern County Department of Planning and Natural Resources Development, *Kern County General Plan*, September 22, 2009.

9. Kern County Department of Planning and Natural Resources Development, *Willow Springs Specific Plan*, April 1, 2008.

10. Kern County, *Kern County Municipal Code*, July 6, 2018.

# APPENDIX A
# Noise Data

**AVEP Noise Survey Data Sheet**
**April 2017**

| Survey Location/GPS Coordinates | Time[1] | Weather Conditions and Wind Speed | Results[2] |
|---|---|---|---|
| **Location R-3**<br>GPS Coordinates:<br>34.870375° N<br>118.350851° W | Time Start:<br>3:14 pm<br>Time End:<br>3:29 pm | Weather<br>Clear to Hazy<br>Wind<br>Slightly Breezy | 33.2<br>↓<br>LAeq |
| **Location C-3**<br>GPS Coordinates:<br>34.892603° N<br>118.307958° W | Time Start:<br>08:05 am<br>Time End:<br>08:20 am | Weather<br>Clear<br>Windy<br>Calm, no wind | 47.2<br>↓<br>LAeq |
| **Location L-2**<br>GPS Coordinates:<br>34.901036° N<br>118.291480° W | Time Start:<br>10:55 am<br>Time End:<br>11:10 am | Weather<br>Clear<br>Wind<br~~Calm, no wind~~ Slight breeze | 55.3<br>↓<br>LAeq |
| **Location T-1**<br>GPS Coordinates:<br>34.819925° N<br>118.308520° W | Time Start:<br>11:28 am<br>Time End:<br>~~11:43~~ am<br>11:38 am[4] | Weather<br>Cloudy<br>Wind<br>Breezy | 48.7<br>↓<br>LAeq |

[4] Strong gust knocked tripod over and cut reading short. Reported reading is from when knocked over and stopped.

---

1 Each run should last approximately fifteen minutes.

2 Document the average dBA noted on the sound level meter at the end of the 15-minute interval.

m:\sfo\projects\first solar avep\5_technical studies\3g_noise\noise survey data\survey data downloaded from noise meter\location c-3_04102017.dta

- Run Summary -

| Logging times: | | | Duration |
|---|---|---|---|
| | mm/dd/yyyy | hh:mm:ss | hh:mm:ss.ss |
| Start of run | 04/10/2017 | 09:59:03 | |
| End of run | 04/10/2017 | 10:14:20 | |
| Duration of run | | | 00:15:17.78 |
| Total pause time | | | 00:00:00.00 |
| | | | |
| Overload occurred | No | | |
| Total overload time | | | 00:00:00.00 |
| Under-range occurred | No | | |
| Low battery occurred | No | | |

User calibration information:

| | | | | | |
|---|---|---|---|---|---|
| Calibrated before run on | 03/29/2017 | 10:51:03 | at | 114.0 | dB |
| Calibrated after run on | 04/11/2017 | 13:15:50 | at | 114.3 | dB |
| Input | Microphone | | | | |

Setup information:

| | |
|---|---|
| Setup name | User Setup 4 |
| Model number | CEL-490 Version 1.10 |
| Serial number | 149135 |
| Run Mode | Broadband SLM |
| Frequency weighting for RMS | A |
| Frequency weighting for Peak | Z |
| Time weighting | Fast |
| Measurement range | 0 - 140 dB |
| Exchange rate (Q) | 3 |
| Period time | 00:15:00 |
| Exposure duration | 00:00:00 |
| Threshold | 70 dB |

Time history profiles:

| | |
|---|---|
| Profiles: | Off |
| Profile sample interval | n.a. |
| Profile function 1 | n.a. |
| Profile function 2 | n.a. |
| Profile function 3 | n.a. |
| Profile function 4 | n.a. |

CEL SoundTrack - dB23 1.07 © Casella CEL Ltd 2004
m:\sfo\projects\first solar avep\5_technical studies\3g_noise\noise survey data\survey data downloaded from noise meter\location r-3_04102017.dta

- Run Summary -

| Logging times: | | | Duration |
|---|---|---|---|
| | mm/dd/yyyy | hh:mm:ss | hh:mm:ss.ss |
| Start of run | 04/10/2017 | 17:08:46 | |
| End of run | 04/10/2017 | 17:23:46 | |
| Duration of run | | | 00:15:00.00 |
| Total pause time | | | 00:00:00.00 |
| | | | |
| Overload occurred | No | | |
| Total overload time | | | 00:00:00.00 |
| Under-range occurred | No | | |
| Low battery occurred | No | | |

User calibration information:

| | | | | | |
|---|---|---|---|---|---|
| Calibrated before run on | 03/29/2017 | 10:51:03 | at | 114.0 | dB |
| Calibrated after run on | 04/11/2017 | 13:15:50 | at | 114.3 | dB |
| Input | Microphone | | | | |

Setup information:

| | |
|---|---|
| Setup name | User Setup 4 |
| Model number | CEL-490 Version 1.10 |
| Serial number | 149135 |
| Run Mode | Broadband SLM |
| Frequency weighting for RMS | A |
| Frequency weighting for Peak | Z |
| Time weighting | Fast |
| Measurement range | 0 - 140 dB |
| Exchange rate (Q) | 3 |
| Period time | 00:15:00 |
| Exposure duration | 00:00:00 |
| Threshold | 70 dB |

Time history profiles:

| | |
|---|---|
| Profiles: | Off |
| Profile sample interval | n.a. |
| Profile function 1 | n.a. |
| Profile function 2 | n.a. |
| Profile function 3 | n.a. |
| Profile function 4 | n.a. |

CEL SoundTrack - dB23 1.07 © Casella CEL Ltd 2004
m:\sfo\projects\first solar avep\5_technical studies\3g_noise\noise survey data\survey data downloaded from noise meter\location t-1_04112017.dta

- Run Summary -

| Logging times: | | | Duration |
|---|---|---|---|
| | mm/dd/yyyy | hh:mm:ss | hh:mm:ss.ss |
| Start of run | 04/11/2017 | 13:23:09 | |
| End of run | 04/11/2017 | 13:29:09 | |
| Duration of run | | | 00:06:00.00 |
| Total pause time | | | 00:00:00.00 |
| | | | |
| Overload occurred | No | | |
| Total overload time | | | 00:00:00.00 |
| Under-range occurred | No | | |
| Low battery occurred | No | | |

User calibration information:

| | | | |
|---|---|---|---|
| Calibrated before run on | 04/11/2017 | 13:15:50 | at 114.3 dB |
| Calibrated after run on | No calibration available | | |
| Input | Microphone | | |

Setup information:

| | |
|---|---|
| Setup name | User Setup 4 |
| Model number | CEL-490 Version 1.10 |
| Serial number | 149135 |
| Run Mode | Broadband SLM |
| Frequency weighting for RMS | A |
| Frequency weighting for Peak | Z |
| Time weighting | Fast |
| Measurement range | 0 - 140 dB |
| Exchange rate (Q) | 3 |
| Period time | 00:15:00 |
| Exposure duration | 00:00:00 |
| Threshold | 70 dB |

Time history profiles:

| | |
|---|---|
| Profiles: | Off |
| Profile sample interval | n.a. |
| Profile function 1 | n.a. |
| Profile function 2 | n.a. |
| Profile function 3 | n.a. |
| Profile function 4 | n.a. |

**Chaparral Solar Facility - Construction**

| Activity | (days) | Workers* | Trucks* | Trucks* | Equipment Type | Units | Hrs./Day | HP | Load Factor | Lmax at 50 feet | Leq per unit 50 feet | Combined Leq 50 feet | Combined Leq at sensitive receptors N | E | S | W | Distance to Closest Sensitive Receptors (feet) (Move-on) | Distance to Closest Sensitive Receptors (feet) (Gen-Tie Line) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Distance to Closest Sensitive Receptors (feet) N: 2200 | E: 120 | S: 775 | W: 725 | | | | | | | | 1295 | 585 |
| **Site Preparation and Grading** | | | | | Pumps | 2 | 8 | 185 | 0.41 | 77 | 73 | 76 | 43 | 69 | 52 | 53 | | |
| (clearing, grubbing, grading, retention ponds) | | | | | Graders | 2 | 8 | 185 | 0.41 | 85 | 81 | 84 | 51 | 77 | 60 | 60 | | |
| | | | | | Rubber Tired Dozers | 1 | 3 | 158 | 0.4 | 85 | 81 | 81 | 48 | 73 | 48 | 48 | | |
| Assumptions: | | | | | Scrapers | 3 | 6 | 365 | 0.4 | 85 | 81 | 86 | 53 | 78 | 53 | 53 | | |
| Cut/Fill: 135000 cubic yards | | | | | Rubber Tired Loaders | 3 | 6 | 190 | 0.36 | 80 | 76 | 80 | 47 | 73 | 47 | 47 | | |
| Aggregate Handling: 4000 cubic yards | | | | | Tractors/Loaders/Backhoes (tractor buster) | 2 | 6 | 120 | 0.42 | 84 | 80 | 83 | 50 | 76 | 50 | 50 | | |
| | | | | | Tractors/Loaders/Backhoes (tractor disk) | 2 | 6 | 300 | 0.42 | 84 | 80 | 83 | 50 | 76 | 50 | 50 | | |
| Dates: 12/1/18 - 7/1/19 | | | | | Rollers | 1 | 3 | 160 | 0.38 | 85 | 81 | 81 | 48 | 73 | 48 | 48 | | |
| | | | | | Skid Steer Loaders | 2 | 6 | 83 | 0.37 | 80 | 76 | 79 | 46 | 71 | 46 | 46 | | |
| | | | | | Generator Sets (30kW - Security) | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 48 | 73 | 48 | 48 | | |
| | | | | | Generator Sets (45 kW - offices) | 1 | 24 | 60 | 0.74 | 82 | 81 | 81 | 48 | 73 | 48 | 48 | | |
| | | | | | COMBINED LEVEL | | | | | | | **92** | **60** | **85** | **69** | **69** | | |
| **Underground work (Trenching)** | | | | | Tractors/Loaders/Backhoes | 1 | 6 | 120 | 0.42 | 84 | 80 | 80 | 47 | 73 | 56 | 57 | | |
| Dates: 1/1/19-8/1/19 | | | | | Trenchers | 1 | 6 | 42 | 0.5 | 80 | 77 | 77 | 44 | 69 | 53 | 54 | | |
| Assumptions | | | | | Plate Compactors | 1 | 4 | 180 | 0.43 | 80 | 76 | 76 | 43 | 69 | 53 | 53 | | |
| 1. Excavation of PCS structures and cable trenching (rough estimate). No off site hauling. | | | | | Excavators | 1 | 4 | 90 | 0.37 | 85 | 81 | 81 | 48 | 73 | 57 | 57 | | |
| 2. Bedding and back fill as necessary (rough estimate). | | | | | Trenchers | 1 | 6 | 40 | 0.5 | 80 | 77 | 77 | 44 | 69 | 53 | 54 | | |
| 3. Assumption for disturbed area based on trenched area open at any one time. | | | | | Crushing/Processing Equipment | 1 | 6 | 180 | 0.43 | 80 | 76 | 76 | 43 | 69 | 53 | 53 | | |
| 4. Assume trenches are no deeper than 4 feet deep. | | | | | Tractors/Loaders/Backhoes | 1 | 4 | 90 | 0.37 | 84 | 80 | 80 | 47 | 72 | 56 | 56 | | |
| 5. Aggregate import is for PCS pads | | | | | Rollers | 1 | 2 | 95 | 0.38 | 85 | 81 | 81 | 48 | 73 | 57 | 58 | | |
| Acres disturbed: 0.5 | | | | | COMBINED LEVEL | | | | | | | **88** | **55** | **80** | **64** | **65** | | |
| **System Installation** | | | | | Rough Terrain Forklifts | 5 | 4 | 90 | 0.2 | 78 | 71 | 78 | 45 | 70 | 54 | 55 | | |
| Dates: 2/1/19 - 9/1/19 | | | | | Aerial Lifts | 3 | 4 | 110 | 0.31 | 85 | 80 | 85 | 52 | 77 | 61 | 61 | | |
| | | | | | Skid Steer Loaders | 10 | 4 | 80 | 0.4 | 80 | 76 | 86 | 53 | 78 | 62 | 63 | | |
| | | | | | Air Compressors | 1 | 6 | 49 | 0.48 | 80 | 77 | 77 | 44 | 69 | 53 | 54 | | |
| | | | | | Other Construction Equipment | 7 | 6 | 149 | 0.42 | 85 | 81 | 90 | 57 | 82 | 66 | 66 | | |
| | | | | | Generator Sets (30kW - Security) | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 48 | 73 | 57 | 57 | | |
| | | | | | Generator Sets (45 kW - offices) | 1 | 24 | 60 | 0.74 | 82 | 81 | 81 | 48 | 73 | 57 | 57 | | |
| | | | | | COMBINED LEVEL | | | | | | | **93** | **60** | **85** | **69** | **70** | | |
| **Cleanup/Testing/Restoration** | | | | | Tractors/Loaders/Backhoes | 1 | 4 | 90 | 0.37 | 84 | 80 | 80 | 47 | 72 | 56 | 56 | | |
| Dates: 5/1/19 - 12/1/19 | | | | | Graders | 1 | 6 | 185 | 0.41 | 85 | 81 | 81 | 48 | 74 | 57 | 58 | | |
| | | | | | Scrapers | 2 | 6 | 365 | 0.4 | 85 | 81 | 84 | 51 | 76 | 60 | 61 | | |
| | | | | | COMBINED LEVEL | | | | | | | **87** | **54** | **79** | **63** | **64** | | |
| **Move-on (laydown, construction trailers, and parking area)** | | | | | Graders | 1 | 6 | 185 | 0.41 | 85 | 81 | 81 | 47 | 73 | 56 | 57 | 53 | |
| | | | | | Rubber Tired Dozers | 1 | 6 | 158 | 0.4 | 85 | 81 | 81 | 48 | 69 | 53 | 54 | 53 | |
| | | | | | Scrapers | 1 | 6 | 365 | 0.4 | 85 | 81 | 81 | 48 | 69 | 53 | 53 | 53 | |
| | | | | | Rubber Tired Loaders | 1 | 6 | 190 | 0.36 | 80 | 76 | 76 | 43 | 73 | 57 | 57 | 47 | |
| | | | | | Tractors/Loaders/Backhoes | 1 | 6 | 120 | 0.42 | 84 | 80 | 80 | 47 | 69 | 53 | 54 | 52 | |
| | | | | | Skid Steer Loaders | 1 | 6 | 83 | 0.37 | 80 | 76 | 76 | 43 | 69 | 53 | 53 | 47 | |
| | | | | | Generator Sets | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 48 | 72 | 56 | 56 | 52 | |
| | | | | | Generator Sets | 0.5 | 12 | 60 | 0.74 | 82 | 81 | 78 | 45 | 73 | 57 | 58 | 49 | |
| | | | | | COMBINED LEVEL | | | | | | | **89** | **55** | **80** | **64** | **65** | **60** | |
| **Gen-Tie Line Construction** | | | | | Tractors/Loaders/Backhoes | 1 | 4 | 90 | 0.37 | 84 | 80 | 80 | 51 | 58 | | | | 58 |
| | | | | | Cranes | 1 | 4 | 400 | 0.29 | 85 | 80 | 80 | 51 | 58 | | | | 58 |
| | | | | | Crawler Tractors | 1 | 4 | 147 | 0.44 | 84 | 80 | 80 | 52 | 59 | | | | 59 |
| | | | | | Bore/Drill Rigs | 1 | 2 | 190 | 0.42 | 85 | 81 | 81 | 53 | 60 | | | | 60 |
| | | | | | Rough Terrain Forklifts | 1 | 4 | 90 | 0.2 | 78 | 71 | 71 | 43 | 50 | | | | 50 |
| | | | | | Other Construction Equipment | 1 | 4 | 238 | 0.42 | 85 | 81 | 81 | 53 | 60 | | | | 60 |
| | | | | | Generator Sets | 1 | 4 | 45 | 0.74 | 82 | 81 | 81 | 52 | 59 | | | | 59 |
| | | | | | COMBINED LEVEL | | | | | | | **88** | **60** | **67** | | | | **67** |

**Rabbitbrush Solar Facility - Construction**

| | | | | | | Distance to Closest Sensitive Receptors (feet) | | | | | | | | | | | Distance to Closest Sensitive Receptors (feet) (Move-on) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | N | E | S | W | | | | | | | | |
| | | | | | | 3100 | 1870 | 3100 | 170 | | | | | | | | 2760 |
| Activity | (days) | Workers* | Trucks* | Trucks* | Equipment Type | Units | Hrs./Day | HP | Load Factor | Lmax at 50 feet | Leq per unit 50 feet | Combined Leq 50 feet | Combined Leq at sensitive receptors N | E | S | W | |
| **Site Preparation and Grading** | | | | | Pumps | 2 | 8 | 185 | 0.41 | 77 | 73 | 76 | 40 | 45 | 40 | 66 | |
| (clearing, grubbing, grading, retention ponds) | | | | | Graders | 2 | 8 | 185 | 0.41 | 85 | 81 | 84 | 48 | 53 | 48 | 48 | |
| | | | | | Rubber Tired Dozers | 1 | 3 | 158 | 0.4 | 85 | 81 | 81 | 45 | 50 | 45 | 45 | |
| Assumptions: | | | | | Scrapers | 3 | 6 | 365 | 0.4 | 85 | 81 | 86 | 50 | 54 | 50 | 50 | |
| Cut/Fill: 135000 cubic yards | | | | | Rubber Tired Loaders | 3 | 6 | 190 | 0.36 | 80 | 76 | 80 | 44 | 49 | 44 | 44 | |
| Aggregate Handling: 4000 cubic yards | | | | | Tractors/Loaders/Backhoes (tractor buster) | 2 | 6 | 120 | 0.42 | 84 | 80 | 83 | 47 | 52 | 47 | 47 | |
| | | | | | Tractors/Loaders/Backhoes (tractor disk) | 2 | 6 | 300 | 0.42 | 84 | 80 | 83 | 47 | 52 | 47 | 47 | |
| Dates: 12/1/18 - 7/1/19 | | | | | Rollers | 1 | 3 | 160 | 0.38 | 85 | 81 | 81 | 45 | 49 | 45 | 45 | |
| | | | | | Skid Steer Loaders | 2 | 6 | 83 | 0.37 | 80 | 76 | 79 | 43 | 47 | 43 | 43 | |
| | | | | | Generator Sets (30kW - Security) | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 45 | 49 | 45 | 45 | |
| | | | | | Generator Sets (45 kW - offices) | 1 | 24 | 60 | 0.74 | 82 | 81 | 81 | 45 | 49 | 45 | 45 | |
| | | | | | COMBINED LEVEL | | | | | | | **92** | **57** | **61** | **57** | **82** | |
| **Underground work (Trenching)** | | | | | Tractors/Loaders/Backhoes | 1 | 6 | 120 | 0.42 | 84 | 80 | 80 | 44 | 49 | 44 | 70 | |
| Dates: 1/1/19-8/1/19 | | | | | Trenchers | 1 | 6 | 42 | 0.5 | 80 | 77 | 77 | 41 | 46 | 41 | 66 | |
| Assumptions | | | | | Plate Compactors | 1 | 4 | 180 | 0.43 | 80 | 76 | 76 | 40 | 45 | 40 | 66 | |
| 1. Excavation of PCS structures and cable trenching (rough estimate). No off site hauling. | | | | | Excavators | 1 | 4 | 90 | 0.37 | 85 | 81 | 81 | 45 | 49 | 45 | 70 | |
| 2. Bedding and back fill as necessary (rough estimate). | | | | | Trenchers | 1 | 6 | 40 | 0.5 | 80 | 77 | 77 | 41 | 46 | 41 | 66 | |
| 3. Assumption for disturbed area based on trenched area open at any one time. | | | | | Crushing/Processing Equipment | 1 | 6 | 180 | 0.43 | 80 | 76 | 76 | 40 | 45 | 40 | 66 | |
| 4. Assume trenches are no deeper than 4 feet deep. | | | | | Tractors/Loaders/Backhoes | 1 | 4 | 90 | 0.37 | 84 | 80 | 80 | 44 | 48 | 44 | 69 | |
| 5. Aggregate import is for PCS pads | | | | | Rollers | 1 | 2 | 95 | 0.38 | 85 | 81 | 81 | 45 | 49 | 45 | 70 | |
| Acres disturbed: 0.5 | | | | | COMBINED LEVEL | | | | | | | **88** | **52** | **56** | **52** | **77** | |
| **System Installation** | | | | | Rough Terrain Forklifts | 5 | 4 | 90 | 0.2 | 78 | 71 | 78 | 42 | 47 | 42 | 67 | |
| Dates: 2/1/19 - 9/1/19 | | | | | Aerial Lifts | 3 | 4 | 110 | 0.31 | 85 | 80 | 85 | 49 | 53 | 49 | 74 | |
| | | | | | Skid Steer Loaders | 10 | 4 | 80 | 0.4 | 80 | 76 | 86 | 50 | 55 | 50 | 75 | |
| | | | | | Air Compressors | 1 | 6 | 49 | 0.48 | 80 | 77 | 77 | 41 | 45 | 41 | 66 | |
| | | | | | Other Construction Equipment | 7 | 6 | 149 | 0.42 | 85 | 81 | 90 | 54 | 58 | 54 | 79 | |
| | | | | | Generator Sets (30kW - Security) | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 45 | 49 | 45 | 70 | |
| | | | | | Generator Sets (45 kW - offices) | 1 | 24 | 60 | 0.74 | 82 | 81 | 81 | 45 | 49 | 45 | 70 | |
| | | | | | COMBINED LEVEL | | | | | | | **93** | **57** | **61** | **57** | **82** | |
| **Cleanup/Testing/Restoration** | | | | | Tractors/Loaders/Backhoes | 1 | 4 | 90 | 0.37 | 84 | 80 | 80 | 44 | 48 | 44 | 69 | |
| Dates: 5/1/19 - 12/1/19 | | | | | Graders | 1 | 6 | 185 | 0.41 | 85 | 81 | 81 | 45 | 50 | 45 | 70 | |
| | | | | | Scrapers | 2 | 6 | 365 | 0.4 | 85 | 81 | 84 | 48 | 53 | 48 | 73 | |
| | | | | | COMBINED LEVEL | | | | | | | **87** | **51** | **55** | **51** | **76** | |
| **Move-on (laydown, construction trailers, and parking area)** | | | | | Graders | 1 | 6 | 185 | 0.41 | 85 | 81 | 81 | 44 | 49 | 44 | 70 | 46 |
| | | | | | Rubber Tired Dozers | 1 | 6 | 158 | 0.4 | 85 | 81 | 81 | 45 | 46 | 41 | 66 | 46 |
| | | | | | Scrapers | 1 | 6 | 365 | 0.4 | 85 | 81 | 81 | 45 | 45 | 40 | 66 | 46 |
| | | | | | Rubber Tired Loaders | 1 | 6 | 190 | 0.36 | 80 | 76 | 76 | 40 | 49 | 45 | 70 | 41 |
| | | | | | Tractors/Loaders/Backhoes | 1 | 6 | 120 | 0.42 | 84 | 80 | 80 | 44 | 46 | 41 | 66 | 45 |
| | | | | | Skid Steer Loaders | 1 | 6 | 83 | 0.37 | 80 | 76 | 76 | 40 | 45 | 40 | 66 | 41 |
| | | | | | Generator Sets | 1 | 24 | 40 | 0.74 | 82 | 81 | 81 | 45 | 48 | 44 | 69 | 46 |
| | | | | | Generator Sets | 0.5 | 12 | 60 | 0.74 | 82 | 81 | 78 | 42 | 49 | 45 | 70 | 43 |
| | | | | | COMBINED LEVEL | | | | | | | **89** | **52** | **56** | **52** | **77** | **54** |

**Rosamond Substation Improvements - Construction**

| Distance to Closest Sensitive Receptors (feet) (SUBSTATION) | | | |
|---|---|---|---|
| **N/NE** | **E** | **S** | **W** |
| | | 480 | |

| Activity | (days) | Workers* | Trucks* | Trucks* | Equipment Type | Units | Hrs./Day | HP | Load Factor | Lmax at 50 feet | Leq per unit 50 feet | Combined Leq 50 feet | Combined Leq at sensitive receptors N | E | S | W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Substation Construction** | | | | | Pumps | 1 | 4 | 238 | 0.5 | 77 | 74 | 74 | #NUM! | #NUM! | 54 | #NUM! |
| | | | | | Graders | 1 | 4 | 90 | 0.37 | 85 | 81 | 81 | #NUM! | #NUM! | 61 | #NUM! |
| | | | | | Rubber Tired Dozers | 1 | 5 | 400 | 0.29 | 85 | 80 | 80 | #NUM! | #NUM! | 60 | #NUM! |
| | | | | | Scrapers | 2 | 4 | 90 | 0.2 | 85 | 78 | 81 | #NUM! | #NUM! | 61 | #NUM! |
| | | | | | Rubber Tired Loaders | 1 | 4 | 60 | 0.31 | 80 | 75 | 75 | #NUM! | #NUM! | 55 | #NUM! |
| | | | | | Tractors/Loaders/Backhoes (tractor buster) | 1 | 6 | 185 | 0.41 | 84 | 80 | 80 | #NUM! | #NUM! | 60 | #NUM! |
| | | | | | Tractors/Loaders/Backhoes (tractor disk) | 1 | 3 | 158 | 0.4 | 84 | 80 | 80 | #NUM! | #NUM! | 60 | #NUM! |
| | | | | | Rollers | 1 | 4 | 365 | 0.4 | 85 | 81 | 81 | #NUM! | #NUM! | 61 | #NUM! |
| | | | | | Skid Steer Loaders | 1 | 3 | 190 | 0.36 | 80 | 76 | 76 | #NUM! | #NUM! | 56 | #NUM! |
| | | | | | Generator Sets (30kW - Security) | 1 | 4 | 42 | 0.5 | 82 | 79 | 79 | #NUM! | #NUM! | 59 | #NUM! |
| | | | | | Generator Sets (45 kW - offices) | 1 | 6 | 190 | 0.36 | 82 | 78 | 78 | #NUM! | #NUM! | 58 | #NUM! |
| | | | | | COMBINED LEVEL | | | | | | | **90** | **#NUM!** | **#NUM!** | **70** | **#NUM!** |

Noise Level (SPL) Calculator

| | |
|---|---|
| SPL 1 (Chaparral System Installation @ 1,250 feet) | 65 |
| SPL 2 (Gen-tie Line Construction @ 360 feet) | 70.9 |
| SPL 3 (Rabbitbrush System Installation @ 170 feet) | 82.4 |
| SPL 4 | |
| SPL 5 | |
| SPL 6 | |
| SPL 7 | |
| SPL 8 | |
| SPL 9 | |
| SPL 10 | |
| SPL 11 | |
| SPL 12 | |
| SPL 13 | |
| SPL 14 | |
| SPL 15 | |
| SPL 16 | |
| SPL 17 | |
| SPL 18 | |
| SPL 19 | |
| SPL 20 | |
| SPL 21 | |
| SPL 22 | |
| SPL 23 | |
| SPL 24 | |
| SPL 25 | |
| SPL 26 | |
| SPL 27 | |
| SPL 28 | |
| SPL 29 | |
| SPL 30 | 0 |
| TOTAL SPL | 82.8 |

Noise Level (SPL) Calculator

| | |
|---|---|
| SPL 1 (Chaparral Solar PV Array @ 1,250 feet) | 11.3 |
| SPL 2 (Gen-tie Line @ 360 feet) | 0 |
| SPL 3 (Rabbitbrush Solar PV Array @ 170 feet) | 28.8 |
| SPL 4 (ESS HVACs - Chaparral @ 2,700 feet) | 33.4 |
| SPL 5 (ESS HVACs - Rabbitbrush @ 2,854 feet) | 32.9 |
| SPL 6 | |
| SPL 7 | |
| SPL 8 | |
| SPL 9 | |
| SPL 10 | |
| SPL 11 | |
| SPL 12 | |
| SPL 13 | |
| SPL 14 | |
| SPL 15 | |
| SPL 16 | |
| SPL 17 | |
| SPL 18 | |
| SPL 19 | |
| SPL 20 | |
| SPL 21 | |
| SPL 22 | |
| SPL 23 | |
| SPL 24 | |
| SPL 25 | |
| SPL 26 | |
| SPL 27 | |
| SPL 28 | |
| SPL 29 | |
| SPL 30 | 0 |
| TOTAL SPL | 36.9 |

# Appendix N

## Transportation and Traffic Impact Analysis

ESA

KITTELSON & ASSOCIATES
750 THE CITY DRIVE, SUITE 410
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# MEMORANDUM

Date: August 21, 2020

Project #: 21825

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From: Tim Erney, AICP/PTP/CTP
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Project: AVEP Solar Project

Subject: Transportation and Traffic Impact Analysis

The AVEP Solar Project would consist of two solar power generating facilities (hereon referred to as the "Project") in an unincorporated area of Kern County, California (County). Kittelson & Associates, Inc. (Kittelson) conducted the transportation and traffic impact analysis for the proposed Project which is summarized in this technical memorandum. The transportation and traffic impact analysis analyzed each facility individually to assess the magnitude of impact that each would cause in the study area, as well as both facilities together to assess the magnitude of impact the Project would have as a whole (i.e., assuming simultaneous construction of both facilities at the same time).

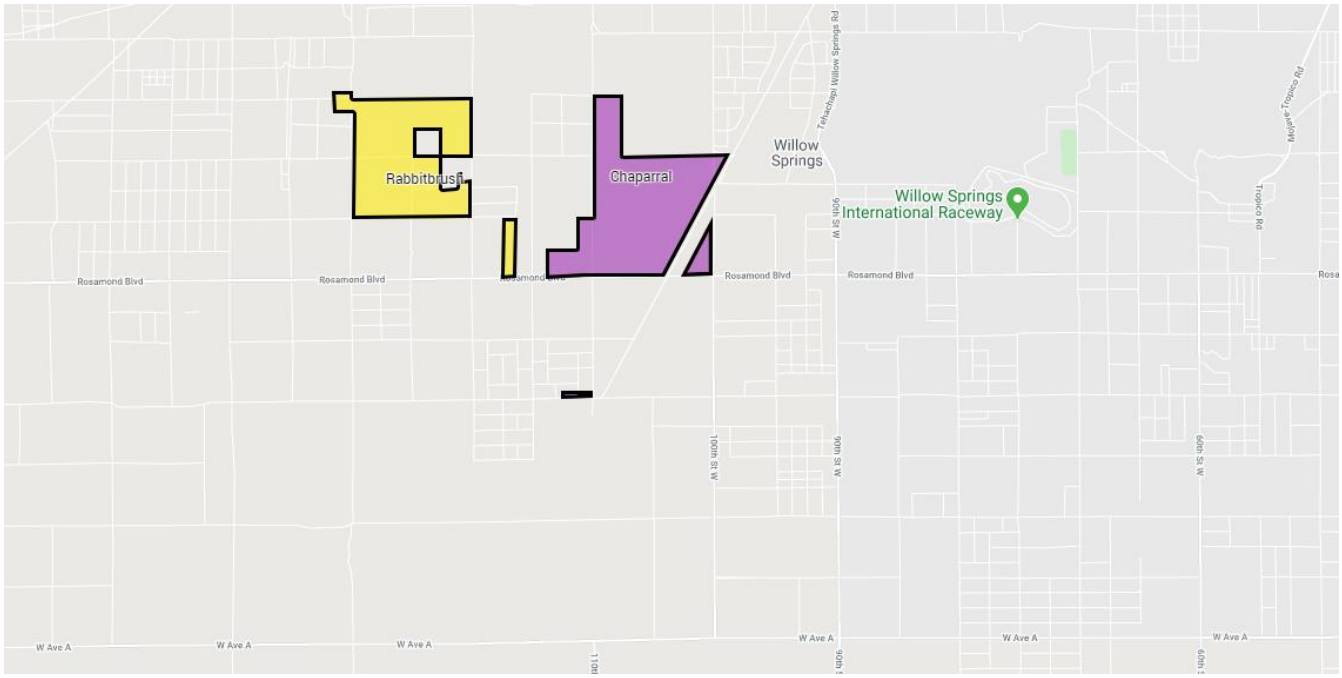
## INTRODUCTION

The Project site is located approximately seven miles west of the unincorporated community of Rosamond in the western portion of the Antelope Valley, in the northwestern portion of the Mojave Desert. It is located approximately 50 miles southeast of the City of Bakersfield in the Antelope Valley. The region surrounding the Project site – and characteristic of the Antelope Valley – includes open desert, fallow agriculture, active agriculture (irrigated and dry land), low-density residential, transmission infrastructure and renewable energy development. The major north-south route in the region is State Route 14 (SR-14), a four-lane highway located east of the Project site. The major east-west route near the Project site is State Route 138 (SR-138), which is a two-lane road, and intersects with SR-14 approximately eight miles east of the Project area. Other roads serving the Project site include Rosamond Boulevard to the south and 100$^{th}$ Street West to the east. Paved and unpaved roadways, generally following section lines, are located throughout the area.

## PROJECT DESCRIPTION

The Project would construct, operate, and eventually decommission two solar photovoltaic (PV) power generating facilities that would be capable of delivering a total of up to approximately 250 megawatt alternating current (MW-ac) of electricity. The Project consists of two non-contiguous Facilities, the Rabbitbrush Solar Facility (125 MW-ac) and the Chaparral Solar Facility (125 MW-ac) – each identified as a "Facility" or collectively as "Facilities" – totaling 1,406 acres of private lands in southeastern Kern County (County). Refer to Figure 1, for a depiction of the Project boundaries in context of each individual Facility.

**Figure 1: Proposed Project Location (Both Facilities)**




Power generated by the proposed project would be transferred via proposed collection lines, and then via an existing 230kV gen-tie line to the SCE Whirlwind Substation- see 'Interconnection Options' below for additional detail.

Rabbitbrush Solar Facility. The 125 MW-ac Rabbitbrush Solar Facility comprises approximately 632 acres in two proximate but non-contiguous land areas (eastern and western) and is generally bordered by Rosamond Boulevard to the south, 115th Street West to the east, Avenue of the Stars to the north, and 130th Street West to the west.

Chaparral Solar Facility. The 125 MW-ac Chaparral Solar Facility comprises approximately 774 acres in two proximate but non-contiguous land areas (northern and southern) and is generally bordered by Holiday Avenue to the south, 100th Street West to the east, Avenue of the Stars to the north, and 110th Street West to the west.

The Applicant would install arrays of solar PV modules to convert solar energy to electrical power to

supply the existing electrical grid. The solar PV modules convert sunlight to direct current (DC) power, which is subsequently transformed to alternating current (AC) power through the use of inverters. Transformers would increase AC voltage for collection and then additional transformers would further increase AC voltage for transmission and interconnection to the electrical grid.

Each Facility will have a collection system connecting PV modules to the substation which includes a combination of underground, aboveground cable trays and overhead (poles or H frame structures) DC and AC electrical and communication cables.

Energy Storage Systems. The Project may have up to two Energy Storage Systems (ESS) (one on each Facility site) taking up approximately 5 acres per Facility. Each Facility's ESS would consist of self-contained battery storage modules placed in racks, converters, switchboards, inverters, transformers, controls, and integrated heating, ventilation, and air conditioning (HVAC) units, all enclosed in one or more buildings or in prefabricated metal containers.

## INTERCONNECTION OPTIONS

Each Facility will interconnect to SCE's Whirlwind Substation. The Project would share off-site substations and gen-tie lines associated with the existing Willow Springs Solar and Rosamond Solar Projects. Modifications would be required at the Willow Springs Solar Project substation, Rosamond Project substation, and SCE Whirlwind Substation as described below. To the extent commercially feasible, the Project intends to utilize previously approved and/or existing interconnection facilities associated with other generating and transmission projects to minimize potential environmental impacts.

*Willow Springs Solar Project Substation Modifications*. New 230 kV HV transformer(s), breakers, buswork, site control centers (SCC) and other associated equipment may be installed or modified in the existing Willow Springs Solar Project Substation for Chaparral Solar. New equipment would be installed on new concrete pads or precast concrete foundations. Expansion of the substation fence and grounding grid would be required. A temporary construction area for the substation expansion may be located next to the Willow Springs Solar Project Substation on Willow Springs Solar Project property.

*Rosamond Solar Project Substation Modifications*. New 230 kV HV transformer(s), breakers, buswork, SCC and other associated equipment may be installed or modified in the Rosamond Solar Project Substation for Rabbitbrush Solar. A temporary construction area for substation expansion may be located next to the Rosamond Solar Project Substation on Rosamond Solar Project property.

*SCE Whirlwind Substation Modifications*. Project interconnection would require SCE to install new interconnection-related components at the Whirlwind Substation such as additional control equipment and may also include ground disturbance to construct poles or lattice towers up to approximately 120 feet in height that would be located on SCE property prior to the gen-tie entering into the Whirlwind Substation property and associated telecommunication communication lines.

## OPERATION AND MAINTENANCE ACTIVITIES

The operation and maintenance of each Facility would require up to 10 full-time equivalent (FTE) personnel (or personnel hours totaling 10 FTE positions) consisting of plant operators and maintenance technicians, totaling 20 FTE personnel for the project. Operations and maintenance staff would typically work during regular business hours Monday through Friday. During periods when non-routine maintenance or major repairs are in progress, the maintenance staff would typically work nights when the Project is not generating power to the grid. The Project may utilize 24- hour security.

## CONSTRUCTION AND DECOMMISSIONING

Project construction activities would include site preparation and clearing/grading, collection system installation, foundations, PV system installation, testing, and site cleanup/restoration work. Both solar Facilities are anticipated to be constructed in one continuous build cycle with no phasing over a period of 12 to 24 months. Each solar Facility would have different completion dates depending upon power procurement contracts. Therefore, both Facilities may be built at the same time or they may be constructed in sequence. The on-site construction workforce will consist of laborers, craftsmen, supervisory personnel, support personnel, and construction management personnel.

Construction activities would be conducted consistent with Kern County Ordinance Section 8.36.020 regarding hours of construction or as approved by Kern County. Certain activities such as high-voltage system modifications may need to occur at nighttime and will be performed with shielded, temporary lighting.

Solar equipment has an expected lifespan of over 30 years. The Project expects to sell the renewable energy produced by the Project under the terms of a long-term Power Purchase Agreement (PPA) with a utility, commercial entity, or other power off taker. Upon completion of the PPA term, the Project owner may, at its discretion, choose to enter into a subsequent PPA or decommission and remove the system and its components. Upon decommissioning, the solar site could be converted to other uses in accordance with applicable land use regulations in effect at that time. It is anticipated that, during Project decommissioning, Project structures that would not be needed for subsequent use would be removed from the Project site. Project decommissioning is projected to be shorter in duration than construction and take four months to complete, instead of 12-months for construction. Therefore, decommissioning is assumed to be one-third of the predicted construction emissions.

# SCOPE AND METHODOLOGY

The scope and methodologies utilized in this analysis are based on information provided in Division 9 – Standards for Traffic Engineering, Chapter II – Traffic Studies of the Kern County's Development Standards (County guidelines) and the California Department of Transportation's Guide for the Preparation of Traffic Impact Studies published in December 2002 (Caltrans guidelines), which are derived through procedures established by the California Environmental Quality Act.[1] This section presents the study area and outlines the methodology utilized to conduct this analysis.

## Study Locations

The County's guidelines require that analysis be conducted at intersections where the Project would generate 50 or more peak hour trips. Given that SR-14 is the primarily regional access roadway in the surrounding area, the study intersections were selected based on the expected paths of travel for trips generated by the Project along the major access routes to and from SR-14. It should be noted that the Project may add more than 50 peak hour Project trips to additional intersections along Rosamond Boulevard between SR-14 and the two Facilities. However, the level of impacts that would occur at the selected study intersections would be similar to the impacts that would occur at other intersections along the corridor.

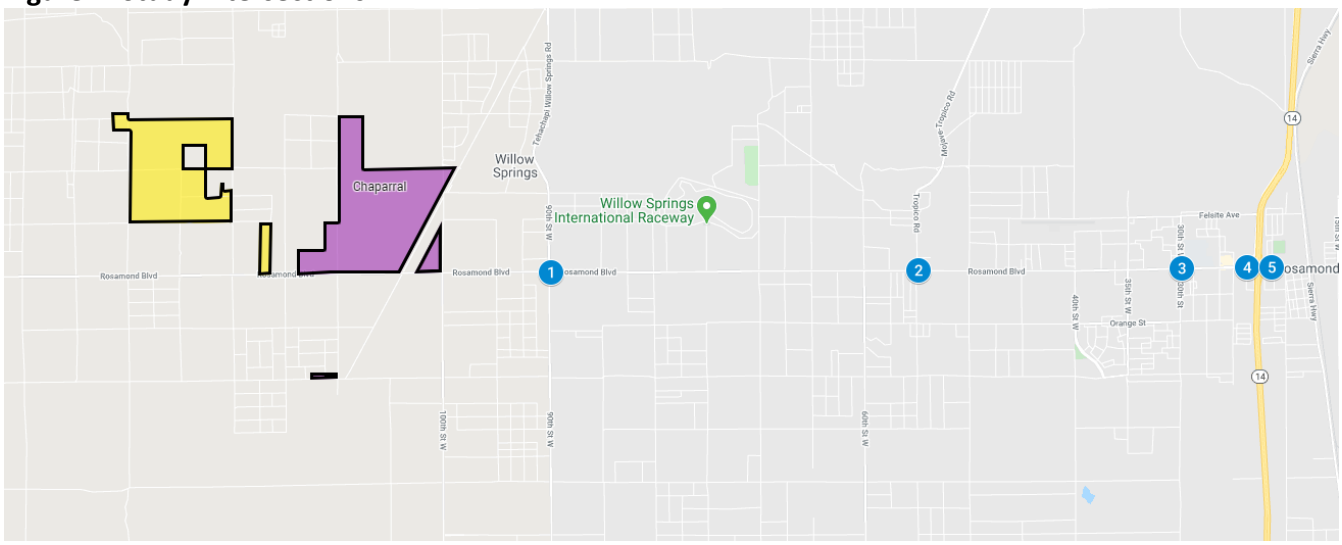
The following study intersections were included in this analysis:

1. 90th Street/Rosamond Boulevard
2. Tropico Road-55th Street/Rosamond Boulevard
3. 30th Street/Rosamond Boulevard
4. SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard
5. SR-14 Northbound Ramps/Rosamond Boulevard

Figure 2 shows a map of the study intersections.

[1] The CEQA Guidelines were updated in December 2018 to, among other things, modify the methodology for analyzing transportation-related impacts from Level of Service (LOS) to Vehicle Miles Traveled (VMT). The CEQA Guidelines update provides, however, that the "updated CEQA Guidelines will apply prospectively only, and would not affect projects that have already commenced environmental review. Additionally, while a public agency could immediately apply the proposed new Guidelines section regarding the evaluation of transportation impacts (proposed Guidelines section 15064.3), statewide application of that new section would not be required until July 1, 2020." As a result, this analysis is based on an LOS methodology.

**Figure 2: Study Intersections**




The traffic-related impacts caused by the construction of each of the two Facilities were analyzed separately assuming each site was constructed one at a time; in addition, the effect of construction of both Facilities simultaneously was also analyzed (that is, the Project as a whole). The analysis was conducted at the study intersections for the following scenarios:

- Existing Conditions
- Construction Year (2021) Conditions
- Construction Year (2021) Plus Rabbitbrush Conditions
- Construction Year (2021) Plus Chaparral Conditions
- Construction Year (2021) Plus Project (Both Facilities) Conditions

The Project is not expected to generate more than 50 peak hour trips (since the Project is anticipated to have minimal daily employees and no visitors) after it is open and operational; as such, no analysis was conducted to determine the potential for permanent significant traffic-related impacts. Instead, the study intersections were only analyzed to determine whether the addition of construction traffic could cause temporary impacts.

## Level of Service Methodology

A level of service (LOS) analysis was conducted using Synchro LOS analysis software at the study intersections. LOS is a concept presented in the *Highway Capacity Manual* (published by the Transportation Research Board) to represent the amount of delay experienced by drivers as they travel through an intersection or roadway segment. Six grades are used to denote the LOS from A to F.

The six LOS grades are described qualitatively for signalized intersections in Table 1. Additionally, Table 1 identifies the relationship between the LOS and average control delay per vehicle. Control delay is defined to include initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

**Table 1: Level of Service Definitions for Signalized Intersections**

| Level of Service | Average Delay per Vehicle | Average Control Delay per Vehicle (Seconds) |
|---|---|---|
| A | Very low average control delay, less than 10 seconds per vehicle. This occurs when progression is extremely favorable, and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay. | <10.0 |
| B | Average control delay is greater than 10 seconds per vehicle and less than or equal to 20 seconds per vehicle. This generally occurs with good progression and/or short cycle lengths. More vehicles stop than for a level of service A, causing higher levels of average delay. | >10 and ≤20 |
| C | Average control delay is greater than 20 seconds per vehicle and less than or equal to 35 seconds per vehicle. These higher delays may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping. | >20 and ≤35 |
| D | Average control delay is greater than 35 seconds per vehicle and less than or equal to 55 seconds per vehicle. The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle length, or high volume/capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable. | >35 and ≤55 |
| E | Average control delay is greater than 55 seconds per vehicle and less than or equal to 80 seconds per vehicle. This is usually considered to be the limit of acceptable delay. These high delay values generally (but not always) indicate poor progression, long cycle lengths, and high volume/capacity ratios. Individual cycle failures are frequent occurrences. | >55 and ≤80 |
| F | Average control delay is in excess of 80 seconds per vehicle. This is considered to be unacceptable to most drivers. This condition often occurs with oversaturation. It may also occur at high volume/capacity ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also contribute to such high delay values. | >80 |

*Source: Transportation Research Board, Highway Capacity Manual, 6th Edition.*

Unsignalized intersections include two-way stop-controlled (TWSC) and all-way stop-controlled (AWSC) intersections. The Highway Capacity Manual (HCM) provides models for estimating control delay at both TWSC and AWSC intersections. A qualitative description and quantitative definitions of the various service levels associated with an unsignalized intersection are presented in Table 2.

**Table 2: Level of Service Definitions for Unsignalized Intersections**

| Level of Service | Average Delay per Vehicle | Average Control Delay per Vehicle (Seconds) |
|---|---|---|
| A | • Nearly all drivers find freedom of operation.<br>• Very seldom is there more than one vehicle in queue. | <10.0 |
| B | • Some drivers begin to consider the delay an inconvenience.<br>• Occasionally there is more than one vehicle in queue. | >10 and ≤15 |
| C | • Many times, there is more than one vehicle in queue.<br>• Most drivers feel restricted, but not objectionably so. | >15 and ≤25 |
| D | • Often there is more than one vehicle in queue.<br>• Drivers feel quite restricted. | >25 and ≤35 |
| E | • Represents a condition in which the demand is near or equal to the probable maximum number of vehicles that can be accommodated by the movement.<br>• There is almost always more than one vehicle in queue.<br>• Drivers find the delays approaching intolerable levels. | >35 and ≤50 |
| F | • Forced flow.<br>• Represents an intersection failure condition that is caused by geometric and/or operational constraints external to the intersection. | >50 |

*Source: Transportation Research Board, Highway Capacity Manual, 6th Edition.*

While overall intersection level of service is calculated for AWSC intersections, level of service is only calculated for the minor approaches and the major street left turn movements at TWSC intersections. No delay is assumed to the major street through movements.

For the purposes of this analysis, the HCM 6th Edition results from the Synchro software were utilized. At intersections where the Synchro software is not able to analyze the study intersections using the HCM 6th Edition (due to nonstandard signal phasing or intersection geometries), results using the HCM 2000 methodology are displayed.

## Criteria for Determining Impact Significance

Based on information provided in the County and the Caltrans guidelines, as well as through conversations with County staff, LOS D is generally considered to represent the minimum acceptable design standard for intersection operations. If the addition of the Project traffic causes an intersection to worsen from LOS D or better to LOS E or worse, mitigation measures should be identified to improve operating conditions at the intersection to LOS D or better.

# TRANSPORTATION AND TRAFFIC IMPACT ANALYSIS

This section presents the results of the transportation and traffic impact analysis conducted for both analysis scenarios (the Facilities individually and both Facilities collectively) for construction, operations and decommissioning, the latter of which is conservatively assumed to be consistent with construction impacts.

## Existing Conditions

### *Roadways*

The major north-south route in the region is State Route 14 (SR-14), a four-lane highway located approximately eight miles east of the Project site. The major east-west route near the Project site is SR-138, which is a two-lane road located approximately six miles south of the Project site, and intersects with SR-14 approximately eight miles east of the Project area. Other two-lane rural roadways serving the Project site include Rosamond Boulevard to the south and 100$^{th}$ Street to the east. Paved and unpaved roadways, generally following section lines, are located throughout the area.

### *Existing Traffic Volumes*

Existing traffic volume data was collected on a Tuesday in April 2018, which represents a typical weekday conditions with local schools and colleges in session. Data was collected during the weekday AM peak period (7:00 AM to 9:00 AM) and PM peak period (4:00 PM to 6:00 PM). The peak hour volumes utilized in this analysis and the detailed counts sheets are presented in Attachment A.

### *Analysis Results*

The LOS results at the study intersection for the Existing Conditions are presented in Table 3. As shown, all intersections operate at LOS D or better during both peak hours. LOS calculation sheets are provided in Attachment B.

**Table 3: LOS Results – Existing Conditions**

| # | Intersection | Control | Peak Hour | Existing | |
|---|---|---|---|---|---|
| | | | | Delay (s/veh) | LOS |
| 1 | 90th Street/Rosamond Boulevard | AWSC | AM | 7.7 | A |
| | | | PM | 8.4 | A |
| 2 | Tropico Road-55th Street/Rosamond Boulevard | AWSC | AM | 14.6 | B |
| | | | PM | 9.5 | A |
| 3 | 30th Street/Rosamond Boulevard | Signal | AM | 40.2 | D |
| | | | PM | 21.3 | C |
| 4 | SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard [a] | Signal | AM | 5.4 | A |
| | | | PM | 6.1 | A |
| 5 | SR-14 Northbound Ramps/Rosamond Boulevard [a] | Signal | AM | 9.3 | A |
| | | | PM | 31.1 | C |

*Source: Kittelson & Associates, Inc., 2020.*

Notes:
AWSC – All Way Stop Controlled
[a] – The intersection was analyzed utilizing the HCM 2000 methodology.

# Construction Year (2021) Conditions

## *Construction Year (2021) Conditions Traffic Volumes*

Construction Year (2021) Conditions volumes were calculated by applying an annual growth rate to existing counts collected in 2018 based on regional growth rates presented in Appendix D of the 2010 Los Angeles County Congestion Management Program (CMP), the most recent CMP published for Los Angeles County. The closest Regional Statistical Area (RSA) to the Project site is Lancaster (RSA 7) and is located approximately four miles south of the study area. RSA 7 serves as a representative predictor of growth rates in and around the study area. Based on the RSA 7 data presented in the CMP, an annual growth rate of 3.3% per year was applied to calculate the Construction Year (2021) Conditions volumes. The peak hour forecasts utilized in this analysis are presented in Attachment A.

In addition to the general background growth rate, a list of 72 cumulative development projects in a six-mile radius of the Project was provided by the County and is included in Appendix A. Although there are several projects that are anticipated to be constructed and operational by 2021, cumulative construction in the Project area is expected to contribute to the potential temporary significant impacts to traffic caused by the Project. It should be noted that several of the cumulative projects on the list are alternative energy (e.g., wind and solar) projects that are currently undergoing the environmental review process. When operational, these projects are expected to have similar operations as the proposed Project with minimal daily employees and few visitors. As such, they are not anticipated to permanently add an appreciable number of trips on the routes to and from the Project Facilities once they are open and operational to change the conclusions of this analysis and were not included in this analysis.

## *Analysis Results*

The LOS results at the study intersections for the Construction Year (2021) Conditions are presented in Table 4. As shown, all intersections continue to operate at LOS D or better during both peak hours. LOS calculation sheets are provided in Attachment C.

**Table 4: LOS Results – Construction Year (2021) Conditions**

| # | Intersection | Control | Peak Hour | Construction Year 2021 | |
|---|---|---|---|---|---|
| | | | | Delay (s/veh) | LOS |
| 1 | 90th Street/Rosamond Boulevard | AWSC | AM | 7.8 | A |
| | | | PM | 8.7 | A |
| 2 | Tropico Road-55th Street/Rosamond Boulevard | AWSC | AM | 17.2 | C |
| | | | PM | 9.9 | A |
| 3 | 30th Street/Rosamond Boulevard | Signal | AM | 48.1 | D |
| | | | PM | 22.0 | C |
| 4 | SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard [a] | Signal | AM | 5.4 | A |
| | | | PM | 6.3 | A |
| 5 | SR-14 Northbound Ramps/Rosamond Boulevard [a] | Signal | AM | 9.9 | A |
| | | | PM | 23.2 | C |

*Source: Kittelson & Associates, Inc., 2020.*

Notes:
AWSC – All Way Stop Controlled
[a] – The intersection was analyzed utilizing the HCM 2000 methodology.

## Project Trips

This section presents the trip generation and trip distribution assumptions for the Project.

### *Trip Generation*

This analysis was conducted to assess the level of impacts during the construction of each Facility. For the purposes of this analysis, the level of impacts was analyzed assuming each Facility was constructed one at a time, as well as both Facilities under construction simultaneously (as this would represent the worst-case scenario).

Construction phases for each Facility would include site preparation and grading, underground work, system installation, and collection line installation.

Construction is expected to occur in 2021 and the heaviest overlap between the different phases of construction would occur during October through December of 2021. The detailed breakdown of the construction phases provided by the Project Applicant is presented in Attachment D.

Primarily, each Facility would generate four types of construction-related trips (as detailed in Appendix D): construction workers, vendors, haul trucks, and water trucks. Construction related trips are expected to travel to and from the Project site throughout the day and may occur during the weekday AM or PM peak hour. The number of trips for worker vehicles, vendor trucks, haul trucks, and water trucks expected for each Facility during the weekday peak hours is presented in Table 5.

**Table 5: Construction Trip Generation**

| Site | Vehicle Type | Daily[1] | AM Peak Hour Trips | | | PM Peak Hour Trips | | |
|---|---|---|---|---|---|---|---|---|
| | | | In | Out | Total | In | Out | Total |
| Rabbitbrush | Worker Vehicles | 892 | 446 | 0 | 446 | 0 | 446 | 446 |
| | Vendor Trucks | 30 | 2 | 1 | 3 | 1 | 2 | 3 |
| | Haul Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water Trucks | 180 | 9 | 9 | 18 | 9 | 9 | 18 |
| | Total | 1,102 | 457 | 10 | 467 | 10 | 457 | 467 |
| Chaparral | Worker Vehicles | 1,000 | 500 | 0 | 500 | 0 | 500 | 500 |
| | Vendor Trucks | 34 | 2 | 1 | 3 | 1 | 2 | 3 |
| | Haul Trucks | 4 | 1 | 0 | 1 | 0 | 1 | 1 |
| | Water Trucks | 200 | 10 | 10 | 20 | 10 | 10 | 20 |
| | Total | 1,238 | 513 | 11 | 524 | 11 | 513 | 524 |

*Source: Kittelson & Associates, Inc., 2020.*

*Notes:*

*1. Daily construction trips account for one-way trips (i.e., not roundtrips) to and from the Project site.*

A passenger car equivalent (PCE) was applied to the trip generation to account for the size and maneuverability of the construction vehicles as compared to passenger vehicles. Consistent with other studies in the area and generally accepted PCE factors, a PCE factor of 2.0[2] was applied to the trip generation for vendor and haul trucks and a PCE factor of 1.5 was applied to the trip generation for water trucks. The PCE trips are presented in Table 6. As shown, if both Facilities were constructed simultaneously, the Project would generate the equivalent of 2,598 weekday daily passenger-vehicle trips, 1,017 passenger-vehicle trips during the weekday AM peak hour (982 inbound and 35 outbound), and 1,017 passenger-vehicle trips during the weekday PM peak hour (35 inbound and 982 outbound). Detailed trip generation information is presented in Attachment D.

[2] A PCE factor of 2.0 indicates that the truck would have the same effect as two passenger vehicles

**Table 6: Construction Passenger Car Equivalent Trips**

| Site | Vehicle Type | Daily[1] | AM Peak Hour PCE Trips | | | PM Peak Hour PCE Trips | | |
|---|---|---|---|---|---|---|---|---|
| | | | In | Out | Total | In | Out | Total |
| Rabbitbrush | Worker Vehicles | 892 | 446 | 0 | 446 | 0 | 446 | 446 |
| | Vendor Trucks | 60 | 3 | 3 | 6 | 3 | 3 | 6 |
| | Haul Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water Trucks | 270 | 14 | 13 | 27 | 13 | 14 | 27 |
| | Total | 1,222 | 463 | 16 | 479 | 16 | 463 | 479 |
| Chaparral[2] | Worker Vehicles | 1,000 | 500 | 0 | 500 | 0 | 500 | 500 |
| | Vendor Trucks | 68 | 3 | 3 | 6 | 3 | 3 | 6 |
| | Haul Trucks | 8 | 1 | 1 | 2 | 1 | 1 | 2 |
| | Water Trucks | 300 | 15 | 15 | 30 | 15 | 15 | 30 |
| | Total | 1,376 | 519 | 19 | 538 | 19 | 519 | 538 |
| Total PCEs for Both Facilities | | 2,598 | 982 | 35 | 1,017 | 35 | 982 | 1,017 |

*Source: Kittelson & Associates, Inc., 2020.*

*Notes:*
*The following PCEs were applied for the vehicle types:*
*Worker Vehicles: 1.0*
*Vendor Trucks: 2.0*
*Haul Trucks: 2.0*
*Water Trucks: 1.5*
1. *Daily construction trips account for one-way trips (i.e., not roundtrips) to and from the Project site.*

Based on information provided by the Project Applicant, the operation and maintenance of each Facility would require up to ten FTE personnel consisting of plant operators and maintenance technicians. Operations and maintenance staff would typically work during regular business hours Monday through Friday. During periods when non-routine maintenance or major repairs are in progress, the maintenance staff would typically work nights when the Project is not generating power to the grid. The Project may utilize 24-hour security. As such, the Project (both Facilities) is expected to generate fewer than 50 trips during the weekday AM and PM peak hours during operations and thus, would not require additional traffic-related analysis (the County's guidelines require that analysis be conducted at intersections where the project would generate 50 or more peak hour trips).

### *Trip Distribution and Assignment*

Based on the location of the proposed Project and access to regional roadways, it was assumed that construction traffic servicing Rabbitbrush and Chaparral would utilize Rosamond Boulevard. Construction traffic would mainly utilize SR-14, located approximately eight miles to the east of the Project site, to travel to and from the Project site. SR-138 is located approximately six miles to the south of the Project site, however many of the roadways connecting Rosamond Boulevard to SR-138 are unpaved. As such, it was assumed that vehicles traveling to/from SR-138 would connect to SR-14 and utilize Rosamond Boulevard to access the Project site. Based on current travel patterns and regional population distribution, it was estimated that two-thirds (approximately 67%) of the construction trips would be generated from cities located south of the Project site and thus would travel to/from the south on SR-14. It is expected that one-third (approximately 33%) of the construction trips would be generated from cities located north of the Project site and would travel to/from the north on SR-14.

The trip distribution assumptions were applied to the trip generation assumptions to determine the Project trip assignment at the study intersections. This trip assignment was added to the volumes from the Construction Year (2021) Conditions to calculate the plus Project conditions. Volume figures for all project scenarios are presented in Attachment A.

## Construction Year (2021) Plus Rabbitbrush Conditions

The number of trips expected to be generated by Rabbitbrush were added to the Construction Year (2021) Conditions to determine the volumes for the Construction Year (2021) Plus Rabbitbrush Conditions. LOS calculation sheets are provided in Attachment E.

The LOS results at the study intersection for the Construction Year (2021) Plus Rabbitbrush Conditions are presented in Table 7. As shown, all intersections would continue to operate at LOS D or better during both peak hours, except for the following intersections, where the addition of the unmitigated Project construction traffic may result in temporary significant impacts:

- 90th Street/Rosamond Boulevard – Degrades from LOS A to LOS F during the PM peak hour
- Tropico Road-55th Street/Rosamond Boulevard – Degrades from LOS C to LOS F during the AM peak hour and from LOS A to LOS F during the PM peak hour
- 30th Street/Rosamond Boulevard – Degrades from LOS D to LOS E during the AM peak hour

Since Rabbitbrush is located on Rosamond Boulevard, construction traffic is expected to utilize Rosamond Boulevard to access the Project site from SR-14. As such, potential temporary significant impacts to traffic may occur along Rosamond Boulevard.

**Table 7: LOS Results – Construction Year (2021) Plus Rabbitbrush Conditions (Unmitigated)**

| # | Intersection | Control | Peak Hour | Construction Year | | Construction Year Plus Rabbitbrush | |
|---|---|---|---|---|---|---|---|
| | | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS |
| 1 | 90th Street/Rosamond Boulevard | AWSC | AM | 7.8 | A | 16.5 | C |
| | | | PM | **8.7** | **A** | **55.3** | **F** |
| 2 | Tropico Road-55th Street/Rosamond Boulevard | AWSC | AM | **17.2** | **C** | **141.8** | **F** |
| | | | PM | **9.9** | **A** | **74.6** | **F** |
| 3 | 30th Street/Rosamond Boulevard | Signal | AM | **48.1** | **D** | **60.1** | **E** |
| | | | PM | 22.0 | C | 24.4 | C |
| 4 | SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard [a] | Signal | AM | 5.4 | A | 4.9 | A |
| | | | PM | 6.3 | A | 7.1 | A |
| 5 | SR-14 Northbound Ramps/Rosamond Boulevard [a] | Signal | AM | 9.9 | A | 14.4 | B |
| | | | PM | 23.2 | C | 52.7 | D |

*Source: Kittelson & Associates, Inc., 2020.*

Notes:
AWSC – All Way Stop Controlled
[a] – The intersection was analyzed utilizing the HCM 2000 methodology.
Shaded and Bold – The addition of construction traffic results in a significant impact.

## Construction Year (2021) Plus Chaparral Conditions

The number of trips expected to be generated by Chaparral were added to the Construction Year (2021) Conditions to determine the volumes for the Construction Year (2021) Plus Chaparral Conditions. LOS calculation sheets are provided in Attachment F.

The LOS results at the study intersection for the Construction Year (2021) Plus Chaparral Conditions are presented in Table 8. As shown, all intersections would continue to operate at LOS C or better during both peak hours, except for the following intersections, where the addition of the unmitigated Project construction traffic may result in temporary significant impacts:

- 90th Street/Rosamond Boulevard – Degrades from LOS A to LOS F during the PM peak hour
- Tropico Road-55th Street/Rosamond Boulevard – Degrades from LOS C to LOS F during the AM peak hour and from LOS A to LOS F during the PM peak hour
- 30th Street/Rosamond Boulevard – Degrades from LOS D to LOS E during the AM peak hour
- SR-14 Northbound Ramps/Rosamond Boulevard – Degrades from LOS C to LOS E during the PM peak hour

Since Chaparral is also located on Rosamond Boulevard, construction traffic is expected to utilize Rosamond Boulevard to access the Project site from SR-14. As such, potential temporary significant impacts to traffic may occur along Rosamond Boulevard.

**Table 8: LOS Results – Construction Year (2021) Plus Chaparral Conditions (Unmitigated)**

| # | Intersection | Control | Peak Hour | Construction Year | | Construction Year Plus Chaparral | |
|---|---|---|---|---|---|---|---|
| | | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS |
| 1 | 90th Street/Rosamond Boulevard | AWSC | AM | 7.8 | A | 21.0 | C |
| | | | PM | **8.7** | **A** | **83.0** | **F** |
| 2 | Tropico Road-55th Street/Rosamond Boulevard | AWSC | AM | **17.2** | **C** | **181.8** | **F** |
| | | | PM | **9.9** | **A** | **102.1** | **F** |
| 3 | 30th Street/Rosamond Boulevard | Signal | AM | **48.1** | **D** | **66.5** | **E** |
| | | | PM | 22.0 | C | 25.2 | C |
| 4 | SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard [a] | Signal | AM | 5.4 | A | 4.9 | A |
| | | | PM | 6.3 | A | 7.2 | A |
| | SR-14 Northbound | | AM | 9.9 | A | 16.0 | B |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | Ramps/Rosamond Boulevard [a] | Signal | PM | **23.2** | **C** | **59.9** | **E** |

*Source: Kittelson & Associates, Inc., 2020.*

Notes:
AWSC – All Way Stop Controlled
[a] – The intersection was analyzed utilizing the HCM 2000 methodology.
Shaded and Bold – The addition of construction traffic results in a significant impact.

## Construction Year (2021) Plus Project (Both Facilities) Conditions

The number of trips expected to be generated by the construction activities of the proposed Project (Both Facilities) were added to the Construction Year (2021) Conditions to determine the volumes for the Construction Year (2021) Plus Project (Both Facilities) Conditions. LOS calculation sheets are provided in Attachment G. Since the Project is anticipated to generate fewer than 50 peak hour trips and have minimal daily employees with no visitors, no analysis was conducted to determine the potential for permanent significant traffic-related impacts. The LOS results at the study intersection for the Construction Year (2020) Plus Project (Both Facilities) Conditions (Unmitigated) are presented in Table 9. At the following intersections, the addition of the Project construction traffic may result in potential temporary significant impacts to traffic at the following locations:

- 90th Street/Rosamond Boulevard – Degrades from LOS A to LOS F during both peak hours
- Tropico Road-55th Street/Rosamond Boulevard – Degrades from LOS C to LOS F during the AM peak hour and from LOS A to LOS F during the PM peak hour
- 30th Street/Rosamond Boulevard – Degrades from LOS D to LOS F during the AM peak hour and LOS C to LOS E during the PM peak hour
- SR-14 Northbound Ramps/Rosamond Boulevard – Degrades from LOS A to LOS E during the AM peak hour and LOS C to LOS F during the PM peak hour

Decommissioning of the Facilities would result in impacts similar to those caused by the Project construction traffic but is expected to last approximately one-third of the time it will take to construct the Facilities (approximately four months).

**Table 9: LOS Results – Construction Year (2021) Plus Project Conditions (Both Facilities) (Unmitigated)**

| # | Intersection | Control | Peak Hour | Construction Year | | Construction Year Plus Project (Both Facilities) | |
|---|---|---|---|---|---|---|---|
| | | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS |
| 1 | 90th Street/Rosamond Boulevard | AWSC | AM | **7.8** | **A** | **212.7** | **F** |
| | | | PM | **8.7** | **A** | **389.1** | **F** |
| 2 | Tropico Road-55th Street/Rosamond Boulevard | AWSC | AM | **17.2** | **C** | **583.5** | **F** |
| | | | PM | **9.9** | **A** | **386.1** | **F** |
| 3 | 30th Street/Rosamond Boulevard | Signal | AM | **48.1** | **D** | **171.4** | **F** |
| | | | PM | **22.0** | **C** | **68.7** | **E** |
| 4 | SR-14 Southbound Off Ramp-Acacia Street/Rosamond Boulevard [a] | Signal | AM | 5.4 | A | 4.8 | A |
| | | | PM | 6.3 | A | 8.7 | A |
| 5 | SR-14 Northbound Ramps/Rosamond Boulevard [a] | Signal | AM | **9.9** | **A** | **71.6** | **E** |
| | | | PM | **23.2** | **C** | **144.9** | **F** |

*Source: Kittelson & Associates, Inc., 2020.*

Notes:
AWSC – All Way Stop Controlled
[a] – The intersection was analyzed utilizing the HCM 2000 methodology.
Shaded and Bold – The addition of construction traffic results in a significant impact.

# MITIGATION MEASURES

A sensitivity analysis was conducted at the study intersections to determine the number of project construction-generated trips that could be added to the study intersections without resulting in a significant impact (i.e., maintain a LOS D or better). Based on this analysis, it was determined that the Rabbitbrush and Chaparral Facilities could generate a combined total of 240 inbound construction worker vehicle trips during the AM peak hour and a total of 350 outbound construction worker vehicle trips during the PM peak hour and continue to have acceptable LOS D or better at the study intersections along Rosamond Boulevard. This construction worker vehicle trip allowance was distributed evenly to Rabbitbrush and Chaparral (each Facility could generate 120 inbound construction worker vehicle trips during the AM peak hour and 175 outbound construction worker vehicle trips during the PM peak hour if their construction activities occur simultaneously). Should the Rabbitbrush and Chaparral Facilities be constructed one at a time and not simultaneously, each Facility could generate 240 inbound construction worker vehicle trips during the AM peak hour and 350 outbound construction worker vehicle trips during the PM peak hour and continue to have acceptable LOS D or better at the study intersections along Rosamond Boulevard.

For the purposes of the sensitivity analysis, it was assumed that restrictions would be placed only on passenger vehicle trips generated by construction workers and not vendor, haul, or water trucks servicing the project site. To the extent feasible, the Project sponsor would schedule deliveries and vendor vehicle arrivals and departures outside of peak periods (7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM). Based on standard solar project construction practices in this region, the majority of the vehicles are worker vehicles that arrive prior 7:00 AM and leave after 3:30 PM. This is both prior to the starting and after the ending hours of the nearby school (Tropico Middle School located on Tropico Road just north of Rosamond Boulevard and approximately 5 miles east of the Chaparral Facility); the main published "Bell Schedule" for this school shows a Period 1 starting bell at 8:45 and last bell at 3:05 (Source: https://www.skusd.k12.ca.us/Page/122)

## Construction Year (2021) Plus Rabbitbrush

The addition of construction traffic generated by Rabbitbrush alone may result in temporary significant impacts to traffic at the following study intersections:

- 90th Street/Rosamond Boulevard
- Tropico Road-55th Street/Rosamond Boulevard
- 30th Street/Rosamond Boulevard

Due to the number of trips expected to be generated by the construction activities of Rabbitbrush, it is expected that temporary significant impacts to traffic may occur at other (non-study) intersections along the Rosamond Boulevard corridor as well.

**Applicant Proposed Measure 01 (APM-01) – Rabbitbrush Solar Facility Traffic Control Measures**:

Because these impacts are temporary in nature, and the proposed Project is not expected to result in significant impacts after construction is complete and the Facility is operational, specific mitigation measures were not identified for each study intersection. However, in order to maintain the operating conditions at each of the study intersections at acceptable levels (LOS D or better) during Project construction, the Facility shall monitor construction worker vehicle trips to and from the Facility during the weekday AM peak period (7:00 AM to 9:00 AM) and PM peak period (4:00 PM to 6:00 PM). Based on the sensitivity analysis described above, Rabbitbrush could generate 120 inbound construction worker vehicle trips during the AM peak hour and 175 outbound construction worker vehicle trips during the PM peak hour (hereinafter referred to as "Peak Hour Construction Worker Vehicle Limits") if its construction activities occur simultaneously with Chaparral's construction activities. If constructed individually without overlap with Chaparral, Rabbitbrush could generate 240 inbound construction worker vehicle trips during the AM peak hour and 350 outbound construction worker vehicle trips during the PM peak hour.

The proposed Project sponsor shall implement measures to ensure Peak Hour Construction Worker Vehicle Limits are maintained during the AM and PM peak hours in order to maintain LOS D or better at the study intersections. These measures may include, but are not limited to the following:

- Prior to issuance of building permits, applicant shall submit a traffic control plan to Kern County Public Works Department for review and approval that outlines the methods used to count worker vehicle traffic arriving and departing from the project site during peak AM and PM hours, methods used to control the number of trips during these hours, and documentation of reasonable coordination efforts with other projects (including the Chaparral Facility) in the area to avoid impacts to study intersections.
- The Project sponsor shall limit construction worker vehicle trips to and from the site to the extent possible during the AM and PM peak periods.
- If monitoring indicates that either AM or PM peak hour construction trips may exceed the Peak Hour Construction Worker Vehicle Limits, the Project sponsor shall implement measures to reduce peak hour passenger vehicle trips. These measures could include:
    - Scheduling construction worker shifts so that a majority of the workers arrive and depart the project site outside the peak periods (7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM).
    - Staggering construction worker shifts so that construction worker vehicle trips are distributed over a broader period (i.e., construction workers arrive in staggered shifts starting from 6:00 AM and depart in staggered shifts starting from 2:00 PM).
    - Instituting incentives and providing options for construction workers to carpool and/or vanpool to and from the project site.

If, despite such trip-reducing measures, the AM or PM peak hour construction trips continue to exceed the Peak Hour Construction Worker Vehicle Limits, the Project sponsor shall deploy temporary traffic control measures at the study intersections (i.e., flaggers placed along some of the critical intersections

along Rosamond Boulevard during the peak hours to help alleviate the temporary impacts by metering construction traffic to allow vehicles from the side streets to proceed safely).

## Construction Year (2021) Plus Chaparral

The addition of construction traffic generated by Chaparral alone may result in temporary significant impacts to traffic at the following study intersections:

- 90th Street/Rosamond Boulevard
- Tropico Road-55th Street/Rosamond Boulevard
- 30th Street/Rosamond Boulevard
- SR-14 Northbound Ramps/Rosamond Boulevard

Due to the number of trips expected to be generated by the construction activities of Chaparral, it is expected that temporary significant impacts to traffic may occur at other (non-study) intersections along the Rosamond Boulevard corridor as well.

**Applicant Proposed Measure 02 (APM-02) – Chaparral Solar Facility Traffic Control Measures**:
Because these impacts are temporary in nature, and the proposed Project is not expected to result in significant impacts after construction is complete and the Facility is operational, specific mitigation measures were not identified for each study intersection. However, in order to maintain the operating conditions at each of the study intersections at acceptable levels (LOS D or better) during Project construction, the Facility shall monitor construction worker vehicle trips to and from the Facility during the weekday AM peak period (7:00 AM to 9:00 AM) and PM peak period (4:00 PM to 6:00 PM). Based on the sensitivity analysis described above, Chaparral could generate 120 inbound construction worker vehicle trips during the AM peak hour and 175 outbound construction worker vehicle trips during the PM peak hour (hereinafter referred to as "Peak Hour Construction Worker Vehicle Limits") if its construction activities occur simultaneously with Rabbitbrush's construction activities. If constructed individually without overlap with Rabbitbrush, Chaparral could generate 240 inbound construction worker vehicle trips during the AM peak hour and 350 outbound construction worker vehicle trips during the PM peak hour.

The proposed Project sponsor shall implement measures to ensure Peak Hour Construction Worker Vehicle Limits are maintained during the AM and PM peak hours in order to maintain LOS D or better at the study intersections. These measures may include, but are not limited to the following:

- Prior to issuance of building permits, applicant shall submit a traffic control plan to Kern County Public Works Department for review and approval that outlines the methods used to count worker vehicle traffic arriving and departing from the project site during peak AM and PM hours, methods used to control the number of trips during these hours, and documentation of reasonable coordination efforts with other projects (including the Rabbitbrush Facility) in the area to avoid impacts to study intersections.
- The Project sponsor shall limit construction worker vehicle trips to and from the site to the extent

possible during the AM and PM peak periods.

- If monitoring indicates that either AM or PM peak hour construction trips may exceed the Peak Hour Construction Worker Vehicle Limits, the Project sponsor shall implement measures to reduce peak hour passenger vehicle trips. These measures could include:
    - Scheduling construction worker shifts so that a majority of the workers arrive and depart the project site outside the peak periods (7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM).
    - Staggering construction worker shifts so that construction worker vehicle trips are distributed over a broader period (i.e., construction workers arrive in staggered shifts starting from 6:00 AM and depart in staggered shifts starting from 2:00 PM).
    - Instituting incentives and providing options for construction workers to carpool and/or vanpool to and from the project site.

If, despite such trip-reducing measures, the AM or PM peak hour construction trips continue to exceed the Peak Hour Construction Worker Vehicle Limits, the Project sponsor shall deploy temporary traffic control measures at the study intersections (i.e., flaggers placed along some of the critical intersections along Rosamond Boulevard during the peak hours to help alleviate the temporary impacts by metering construction traffic to allow vehicles from the side streets to proceed safely).

# CONCLUSIONS

The Construction Year (2021) Plus Rabbitbrush analysis found potential temporary significant impacts to traffic may occur due to construction-related trips at the following intersections:

- 90th Street/Rosamond Boulevard – PM peak hour
- Tropico Road-55th Street/Rosamond Boulevard – AM and PM peak hours
- 30th Street/Rosamond Boulevard –AM peak hour

The Construction Year (2021) Plus Chaparral analysis found potential temporary significant impacts to traffic may occur due to construction-related trips at the following intersections:

- 90th Street/Rosamond Boulevard – PM peak hour
- Tropico Road-55th Street/Rosamond Boulevard – AM and PM peak hours
- 30th Street/Rosamond Boulevard – AM peak hour
- SR-14 Northbound Ramps/Rosamond Boulevard – PM peak hour

The Construction Year (2021) Plus Project (Both Facilities) analysis found potential temporary significant impacts to traffic may occur due to construction-related trips at the following intersections:

- 90th Street/Rosamond Boulevard – AM and PM peak hours
- Tropico Road-55th Street/Rosamond Boulevard – AM and PM peak hours
- 30th Street/Rosamond Boulevard – AM and PM peak hours
- SR-14 Northbound Ramps/Rosamond Boulevard – AM and PM peak hours

Due to the number of trips expected to be generated by the proposed Project's construction activities, it is expected that temporary significant impacts to traffic may occur at other (non-study) intersections along the Rosamond Boulevard corridor as well without mitigation.

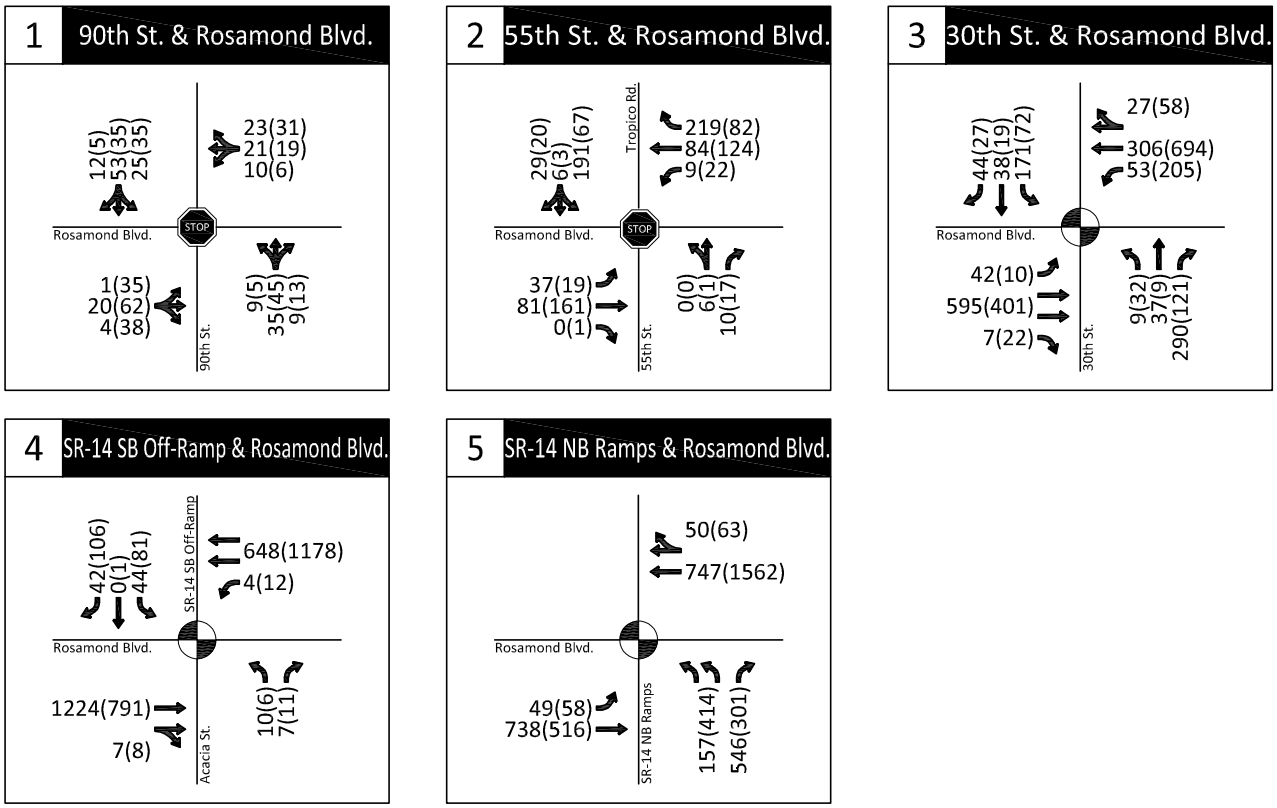
Based on a sensitivity analysis, it was determined that the Rabbitbrush and Chaparral Facilities could generate a combined total of 240 inbound construction worker vehicle trips during the AM peak hour and a total of 350 outbound construction worker vehicle trips during the PM peak hour if constructed simultaneously and continue to maintain LOS D or better at the study intersections along Rosamond Boulevard. Should the Rabbitbrush and Chaparral Facilities be constructed one at a time and not simultaneously, each Facility could generate 240 inbound construction worker vehicle trips during the AM peak hour and 350 outbound construction worker vehicle trips during the PM peak hour and continue to have acceptable LOS D or better at the study intersections along Rosamond Boulevard. The Project sponsor shall monitor passenger vehicle trips to and from the Facilities during the weekday AM peak period (7:00 AM to 9:00 AM) and PM peak period (4:00 PM to 6:00 PM) and implement measures to ensure Peak Hour Construction Worker Vehicle Limits are maintained during the AM and PM peak periods. These measures could include scheduling construction worker shifts so arrival and departure

trips occur outside of the peak periods, staggering construction worker shifts so a majority of workers arrive and depart outside of the peak periods and providing incentives for construction workers to carpool and/or vanpool. Prior to issuance of building permits, applicant shall submit a traffic control plan to Kern County Public Works Department for review and approval that outlines the methods used to document and remain within Peak Hour Construction Worker Vehicle Limits. If, despite such trip-reducing measures, the AM or PM peak hour construction trips continue to exceed the Peak Hour Construction Worker Vehicle Limits, the Project sponsor shall deploy temporary traffic control measures at the study intersections such as flaggers placed along some intersections along Rosamond Boulevard to meter construction traffic.

Attachments:

A. Existing Traffic Counts and Forecast Volume Figures
B. Existing Conditions LOS Sheets
C. Construction Year (2021) LOS Sheets
D. Trip Generation
E. Construction Year (2021) Plus Rabbitbrush LOS Sheets
F. Construction Year (2021) Plus Chaparral LOS Sheets
G. Construction Year (2021) Plus Project (Both Facilities) LOS Sheets

# Attachment A. Existing Traffic Counts and Forecast Volume Figures




AM(PM) - Traffic Volume

STOP - All-Way Stop

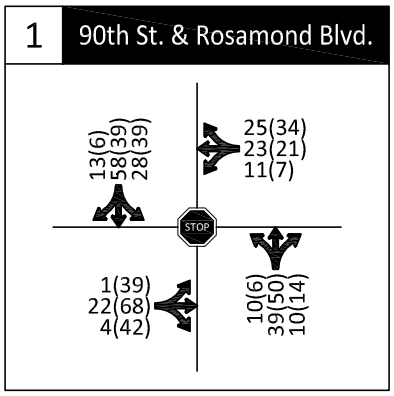
- Traffic Signal

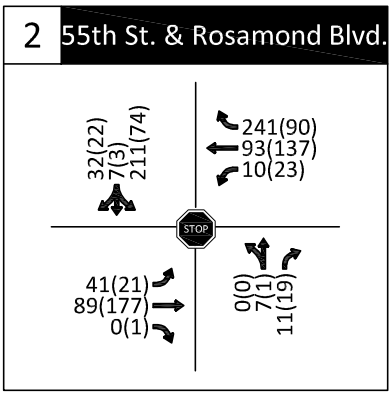
Existing (Year 2018)
Peak Hour Traffic Volumes

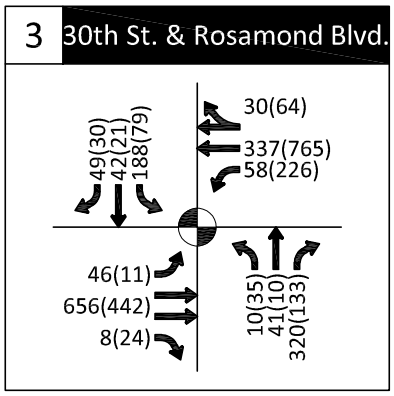
Figure
A1

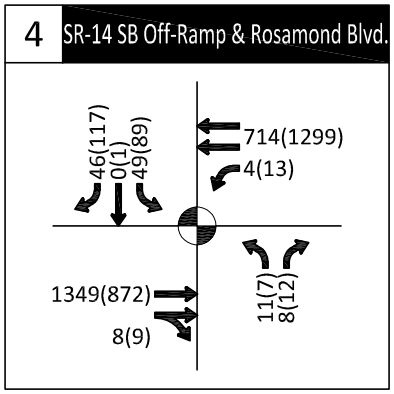
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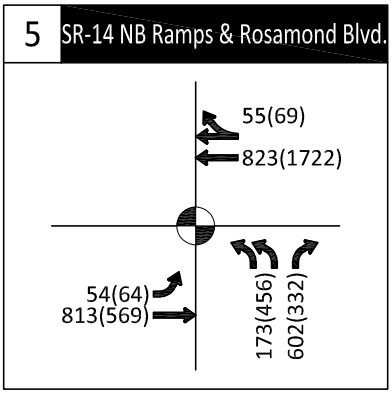
KITTELSON & ASSOCIATES




AM(PM) - Traffic Volume

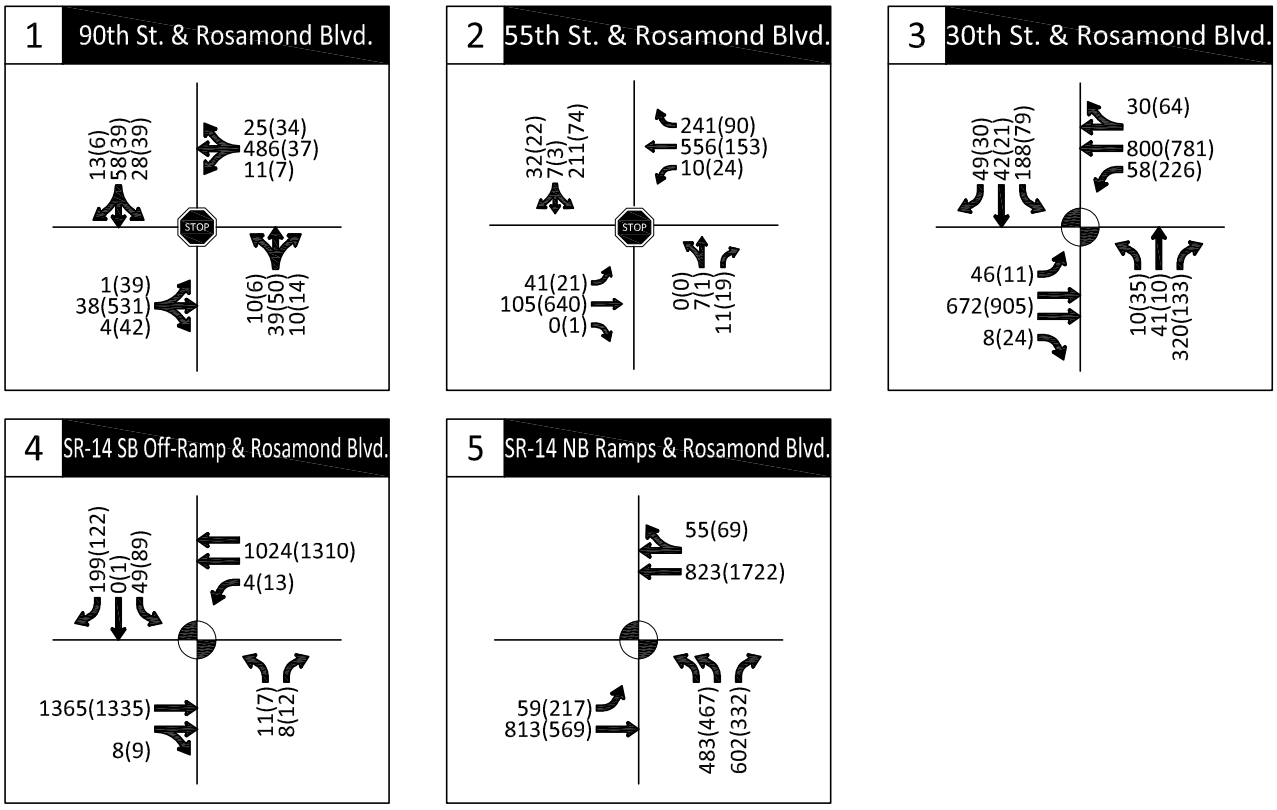
STOP - All-Way Stop

- Traffic Signal

Construction (Year 2021) Baseline
Peak Hour Traffic Volumes

Figure
A2

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AM(PM) - Traffic Volume

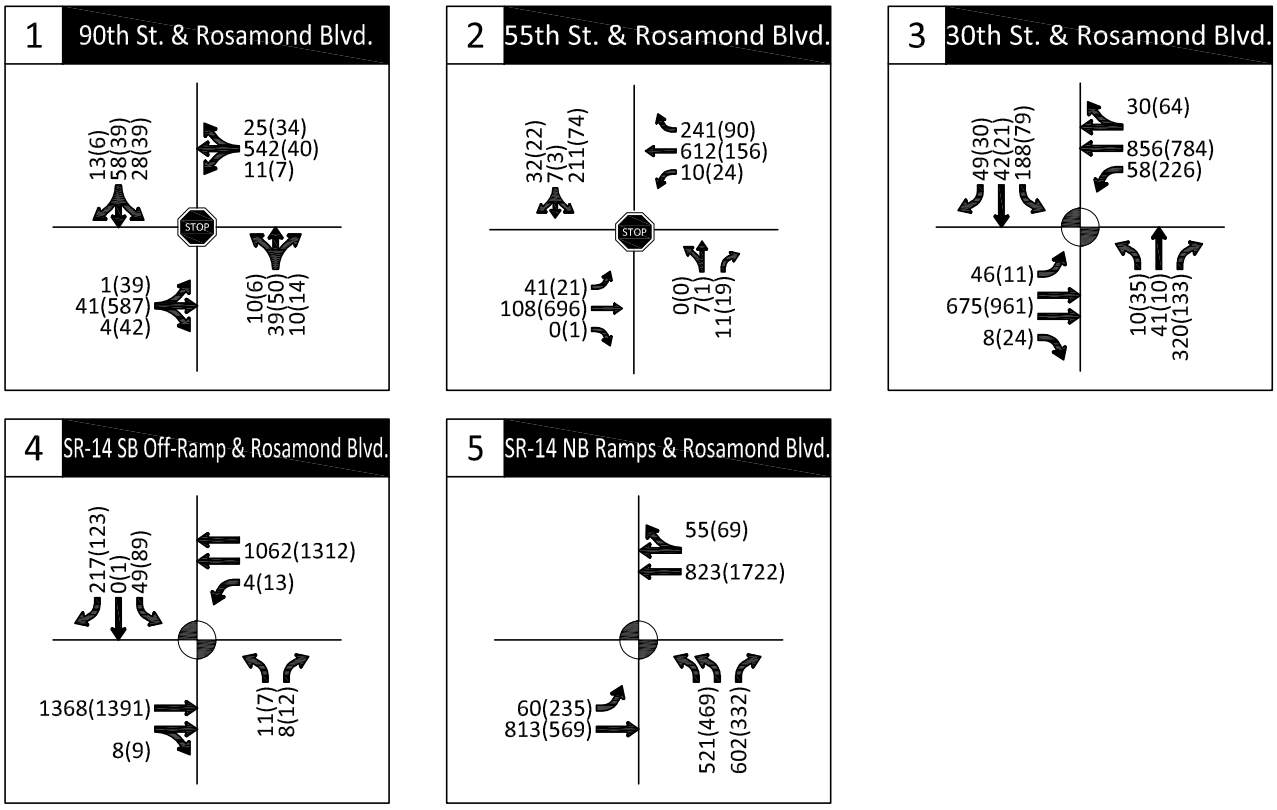
STOP - All-Way Stop

- Traffic Signal

Construction (Year 2021) Plus Rabbitbrush
Peak Hour Traffic Volumes

Figure
A3

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AM(PM) - Traffic Volume

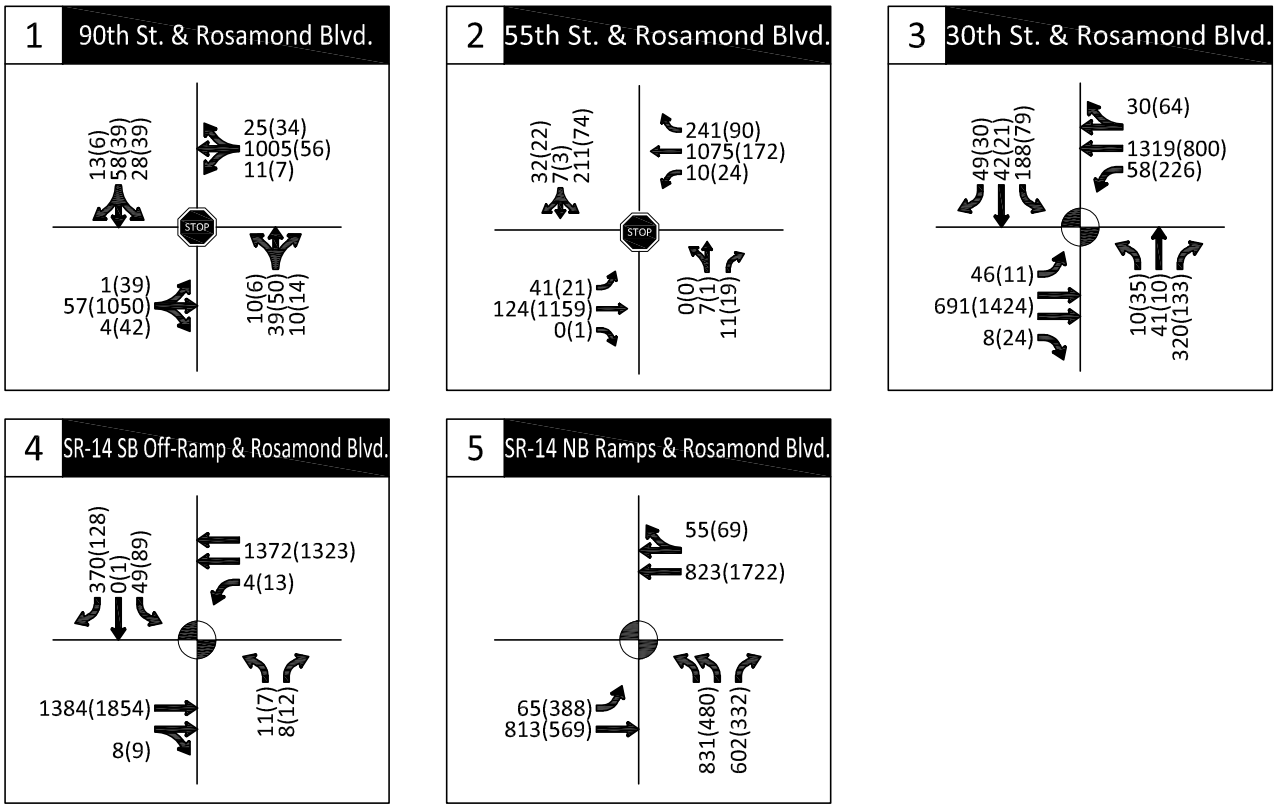
STOP - All-Way Stop

- Traffic Signal

Construction (Year 2021) Plus Chaparral
Peak Hour Traffic Volumes

Figure
A4

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AM(PM) - Traffic Volume

STOP - All-Way Stop

- Traffic Signal

Construction (Year 2021) Plus Projects (Both Sites)
Peak Hour Traffic Volumes

Figure
A5

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Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

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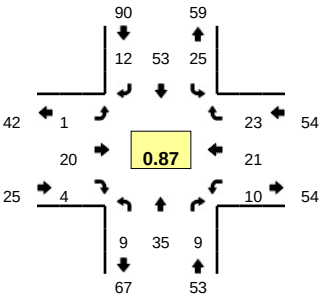
**CITY/STATE:** Rosamond, CA

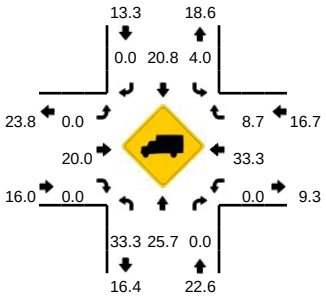
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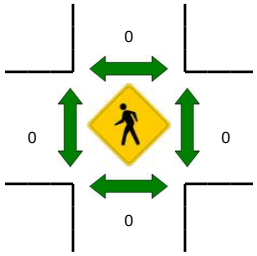
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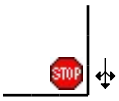
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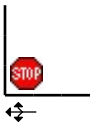
**Peak 15-Min: 7:00 AM -- 7:15 AM**

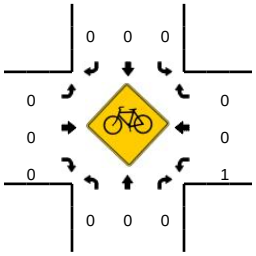


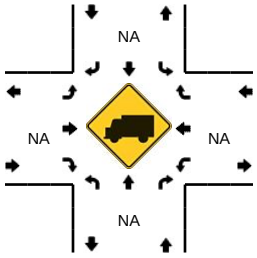



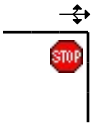



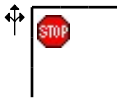



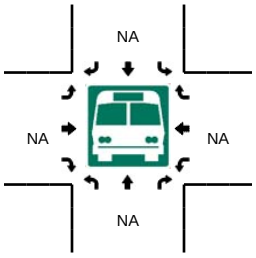




| 5-Min Count Period Beginning At | 1. 90th St (Northbound) | | | | 1. 90th St (Southbound) | | | | Rosamund Blvd (Eastbound) | | | | Rosamund Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 7:00 AM | 2 | 4 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 4 | 1 | 0 | 0 | 1 | 1 | 0 | 19 | |
| 7:05 AM | 0 | 4 | 3 | 0 | 3 | 4 | 2 | 0 | 0 | 3 | 0 | 0 | 1 | 2 | 2 | 0 | 24 | |
| 7:10 AM | 1 | 3 | 2 | 0 | 2 | 4 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 2 | 0 | 21 | |
| 7:15 AM | 1 | 5 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 3 | 0 | 17 | |
| 7:20 AM | 0 | 5 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 19 | |
| 7:25 AM | 1 | 3 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 2 | 0 | 21 | |
| 7:30 AM | 1 | 1 | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 15 | |
| 7:35 AM | 0 | 3 | 2 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 13 | |
| 7:40 AM | 1 | 3 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 3 | 0 | 19 | |
| 7:45 AM | 0 | 3 | 1 | 0 | 4 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 15 | |
| 7:50 AM | 2 | 1 | 0 | 0 | 1 | 6 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 16 | |
| 7:55 AM | 0 | 0 | 1 | 0 | 4 | 4 | 3 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 4 | 0 | 23 | 222 |
| 8:00 AM | 0 | 2 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 12 | 215 |
| 8:05 AM | 0 | 1 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 11 | 202 |
| 8:10 AM | 0 | 2 | 0 | 0 | 1 | 5 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 15 | 196 |
| 8:15 AM | 1 | 0 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 3 | 0 | 17 | 196 |
| 8:20 AM | 0 | 4 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 14 | 191 |
| 8:25 AM | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 9 | 179 |
| 8:30 AM | 1 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 2 | 0 | 14 | 178 |
| 8:35 AM | 0 | 3 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 10 | 175 |
| 8:40 AM | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 164 |
| 8:45 AM | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 10 | 159 |
| 8:50 AM | 0 | 2 | 0 | 0 | 2 | 7 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 16 | 159 |
| 8:55 AM | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 10 | 146 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 12 | 44 | 20 | 0 | 24 | 48 | 20 | 0 | 0 | 36 | 4 | 0 | 8 | 20 | 20 | 0 | 256 |
| Heavy Trucks | 12 | 12 | 0 | | 0 | 4 | 0 | | 0 | 8 | 0 | | 0 | 4 | 0 | | 40 |
| Pedestrians | | 0 | | | | 0 | | | | 0 | | | | 0 | | | 0 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** 1. 90th St -- Rosamund Blvd

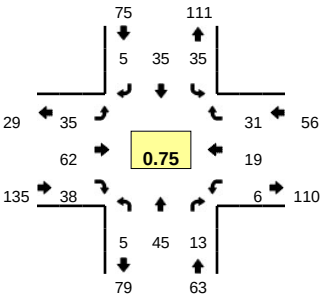
**CITY/STATE:** Rosamond, CA

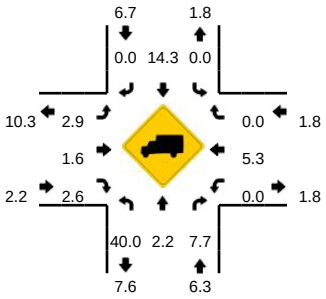
**QC JOB #:** 14668402

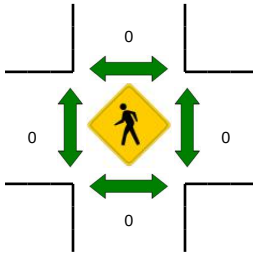
**DATE:** Tue, Apr 03 2018

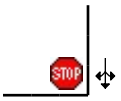
**Peak-Hour: 5:00 PM -- 6:00 PM**

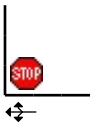
**Peak 15-Min: 5:10 PM -- 5:25 PM**

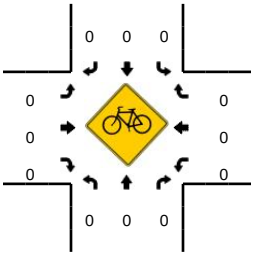


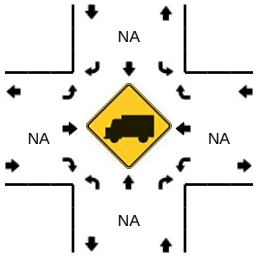



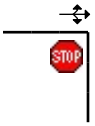



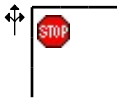



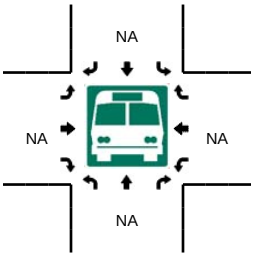




| 5-Min Count Period Beginning At | 1. 90th St (Northbound) | | | | 1. 90th St (Southbound) | | | | Rosamund Blvd (Eastbound) | | | | Rosamund Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 4:00 PM | 0 | 3 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 15 | |
| 4:05 PM | 0 | 1 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 2 | 0 | 13 | |
| 4:10 PM | 1 | 6 | 3 | 0 | 2 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 4 | 0 | 24 | |
| 4:15 PM | 0 | 3 | 3 | 0 | 2 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 17 | |
| 4:20 PM | 1 | 2 | 0 | 0 | 2 | 2 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 4 | 3 | 0 | 19 | |
| 4:25 PM | 0 | 5 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 3 | 0 | 19 | |
| 4:30 PM | 0 | 2 | 0 | 0 | 1 | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 17 | |
| 4:35 PM | 0 | 4 | 1 | 0 | 4 | 4 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 3 | 5 | 0 | 25 | |
| 4:40 PM | 2 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 9 | |
| 4:45 PM | 0 | 4 | 1 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 21 | |
| 4:50 PM | 0 | 4 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 15 | |
| 4:55 PM | 1 | 2 | 2 | 0 | 2 | 5 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 19 | 213 |
| 5:00 PM | 0 | 4 | 0 | 0 | 2 | 6 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 3 | 0 | 21 | 219 |
| 5:05 PM | 0 | 3 | 1 | 0 | 5 | 7 | 0 | 0 | 3 | 11 | 0 | 0 | 1 | 0 | 7 | 0 | 38 | 244 |
| 5:10 PM | 0 | 5 | 1 | 0 | 3 | 3 | 0 | 0 | 2 | 2 | 2 | 0 | 1 | 3 | 6 | 0 | 28 | 248 |
| 5:15 PM | 0 | 1 | 1 | 0 | 2 | 2 | 2 | 0 | 5 | 7 | 12 | 0 | 1 | 4 | 3 | 0 | 40 | 271 |
| 5:20 PM | 0 | 6 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 12 | 13 | 0 | 0 | 0 | 2 | 0 | 41 | 293 |
| 5:25 PM | 1 | 4 | 1 | 0 | 1 | 2 | 0 | 0 | 4 | 10 | 2 | 0 | 0 | 1 | 1 | 0 | 27 | 301 |
| 5:30 PM | 3 | 2 | 2 | 0 | 2 | 3 | 1 | 0 | 1 | 5 | 4 | 0 | 0 | 1 | 3 | 0 | 27 | 311 |
| 5:35 PM | 0 | 4 | 2 | 0 | 3 | 1 | 1 | 0 | 5 | 0 | 2 | 0 | 1 | 1 | 3 | 0 | 23 | 309 |
| 5:40 PM | 0 | 5 | 0 | 0 | 6 | 3 | 0 | 0 | 2 | 4 | 2 | 0 | 0 | 4 | 0 | 0 | 26 | 326 |
| 5:45 PM | 0 | 2 | 0 | 0 | 3 | 1 | 0 | 0 | 5 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 16 | 321 |
| 5:50 PM | 0 | 3 | 1 | 0 | 3 | 1 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 18 | 324 |
| 5:55 PM | 1 | 6 | 2 | 0 | 3 | 4 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 2 | 2 | 0 | 24 | 329 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 0 | 48 | 16 | 0 | 28 | 28 | 8 | 0 | 36 | 84 | 108 | 0 | 8 | 28 | 44 | 0 | 436 |
| Heavy Trucks | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 4 | | 0 | 0 | 0 | | 4 |
| Pedestrians | | 0 | | | | 0 | | | | 0 | | | | 0 | | | 0 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

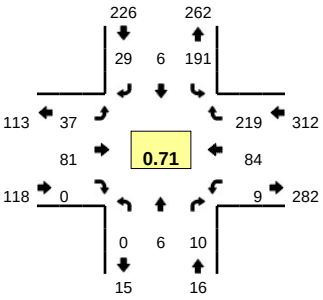
**LOCATION:** 2. Tropico Rd/55th St -- Rosamond Blvd

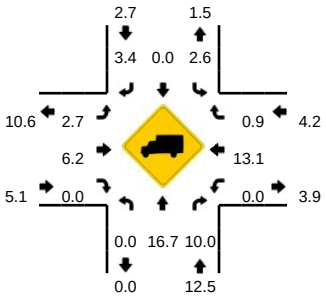
**QC JOB #:** 14668403

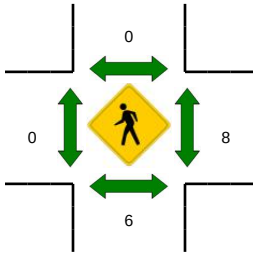
**CITY/STATE:** Rosamond, CA

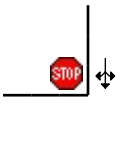
**DATE:** Tue, Apr 03 2018

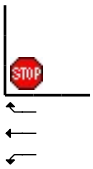
**Peak-Hour: 7:45 AM -- 8:45 AM**
**Peak 15-Min: 8:25 AM -- 8:40 AM**

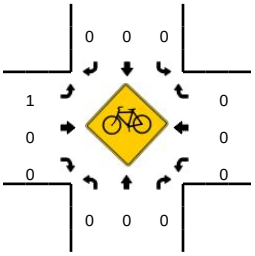


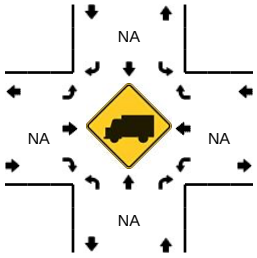



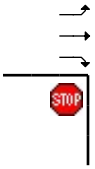



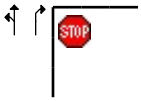



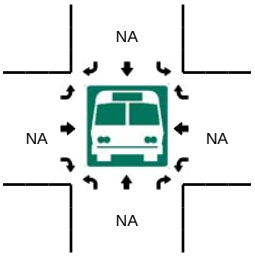




| 5-Min Count Period Beginning At | 2. Tropico Rd/55th St (Northbound) | | | | 2. Tropico Rd/55th St (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 7:00 AM | 0 | 0 | 1 | 0 | 15 | 0 | 1 | 0 | 2 | 17 | 0 | 0 | 1 | 5 | 6 | 0 | 48 | |
| 7:05 AM | 0 | 0 | 4 | 0 | 10 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 7 | 1 | 0 | 31 | |
| 7:10 AM | 0 | 0 | 5 | 0 | 12 | 0 | 2 | 0 | 2 | 13 | 0 | 0 | 0 | 10 | 5 | 0 | 49 | |
| 7:15 AM | 0 | 0 | 3 | 0 | 6 | 1 | 1 | 0 | 2 | 18 | 0 | 0 | 2 | 8 | 7 | 0 | 48 | |
| 7:20 AM | 3 | 1 | 3 | 0 | 10 | 0 | 1 | 0 | 1 | 12 | 1 | 0 | 0 | 9 | 7 | 0 | 48 | |
| 7:25 AM | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 16 | 0 | 0 | 2 | 13 | 10 | 0 | 47 | |
| 7:30 AM | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 2 | 10 | 4 | 0 | 29 | |
| 7:35 AM | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 7 | 1 | 0 | 1 | 10 | 8 | 0 | 31 | |
| 7:40 AM | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 6 | 4 | 1 | 25 | |
| 7:45 AM | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 8 | 3 | 0 | 25 | |
| 7:50 AM | 0 | 2 | 1 | 0 | 9 | 0 | 2 | 0 | 2 | 6 | 0 | 0 | 4 | 16 | 11 | 0 | 53 | |
| 7:55 AM | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 9 | 0 | 0 | 2 | 6 | 15 | 0 | 38 | 472 |
| 8:00 AM | 0 | 1 | 3 | 0 | 12 | 0 | 1 | 0 | 4 | 10 | 0 | 0 | 2 | 9 | 10 | 0 | 52 | 476 |
| 8:05 AM | 0 | 0 | 1 | 0 | 6 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 8 | 18 | 0 | 40 | 485 |
| 8:10 AM | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 3 | 6 | 0 | 0 | 0 | 8 | 15 | 0 | 40 | 476 |
| 8:15 AM | 0 | 1 | 0 | 0 | 11 | 0 | 3 | 0 | 1 | 8 | 0 | 0 | 0 | 6 | 14 | 0 | 44 | 472 |
| 8:20 AM | 0 | 2 | 0 | 0 | 15 | 3 | 4 | 0 | 4 | 9 | 0 | 0 | 0 | 3 | 26 | 0 | 66 | 490 |
| 8:25 AM | 0 | 0 | 0 | 0 | 31 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 8 | 31 | 0 | 80 | 523 |
| 8:30 AM | 0 | 0 | 2 | 0 | 27 | 0 | 3 | 0 | 7 | 4 | 0 | 0 | 1 | 4 | 24 | 0 | 72 | 566 |
| 8:35 AM | 0 | 0 | 0 | 0 | 24 | 1 | 6 | 0 | 7 | 5 | 0 | 0 | 0 | 4 | 39 | 0 | 86 | 621 |
| 8:40 AM | 0 | 0 | 2 | 0 | 41 | 2 | 4 | 0 | 2 | 8 | 0 | 0 | 0 | 4 | 13 | 0 | 76 | 672 |
| 8:45 AM | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 5 | 4 | 0 | 23 | 670 |
| 8:50 AM | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 15 | 632 |
| 8:55 AM | 0 | 0 | 2 | 0 | 5 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 1 | 8 | 2 | 0 | 28 | 622 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 0 | 0 | 8 | 0 | 328 | 4 | 44 | 0 | 56 | 68 | 0 | 0 | 4 | 64 | 376 | 0 | 952 |
| Heavy Trucks | 0 | 0 | 0 | | 8 | 0 | 0 | | 0 | 8 | 0 | | 0 | 8 | 0 | | 24 |
| Pedestrians | | 4 | | | | 0 | | | | 0 | | | | 4 | | | 8 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

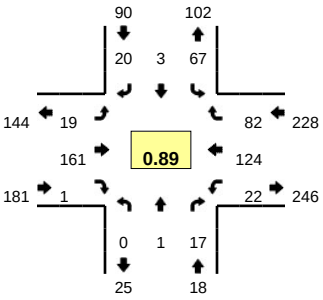
Method for determining peak hour: Total Entering Volume

**LOCATION:** 2. Tropico Rd/55th St -- Rosamond Blvd

**CITY/STATE:** Rosamond, CA

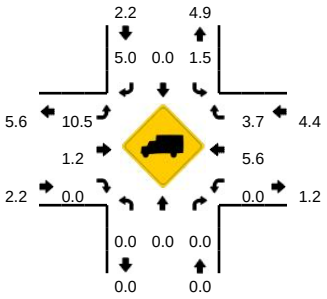
**QC JOB #:** 14668404

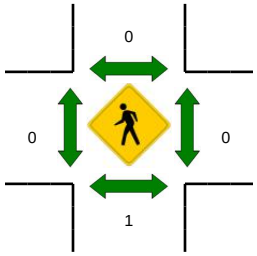
**DATE:** Tue, Apr 03 2018

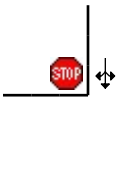


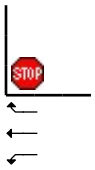

**Peak-Hour: 4:40 PM -- 5:40 PM**

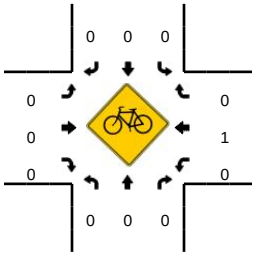
**Peak 15-Min: 5:20 PM -- 5:35 PM**

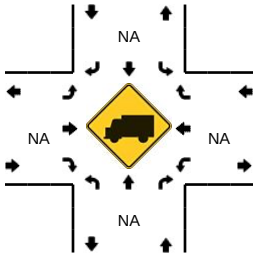


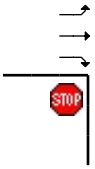



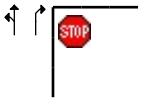



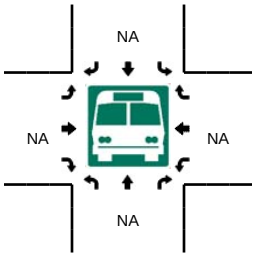




| 5-Min Count Period Beginning At | 2. Tropico Rd/55th St (Northbound) | | | | 2. Tropico Rd/55th St (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 4:00 PM | 0 | 1 | 1 | 0 | 9 | 0 | 1 | 0 | 0 | 10 | 1 | 0 | 0 | 10 | 6 | 0 | 39 | |
| 4:05 PM | 0 | 0 | 2 | 0 | 7 | 0 | 1 | 0 | 2 | 9 | 0 | 0 | 0 | 10 | 2 | 0 | 33 | |
| 4:10 PM | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 5 | 6 | 0 | 21 | |
| 4:15 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 0 | 1 | 11 | 7 | 0 | 33 | |
| 4:20 PM | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 9 | 4 | 0 | 25 | |
| 4:25 PM | 0 | 1 | 2 | 0 | 7 | 3 | 2 | 0 | 1 | 4 | 1 | 0 | 2 | 9 | 8 | 0 | 40 | |
| 4:30 PM | 0 | 1 | 0 | 0 | 6 | 3 | 2 | 0 | 2 | 7 | 0 | 0 | 2 | 11 | 3 | 0 | 37 | |
| 4:35 PM | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 2 | 11 | 5 | 0 | 31 | |
| 4:40 PM | 0 | 1 | 1 | 0 | 8 | 0 | 1 | 0 | 3 | 11 | 0 | 0 | 1 | 9 | 11 | 0 | 46 | |
| 4:45 PM | 0 | 0 | 1 | 0 | 5 | 0 | 4 | 0 | 0 | 8 | 0 | 0 | 1 | 8 | 7 | 0 | 34 | |
| 4:50 PM | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 12 | 0 | 0 | 0 | 8 | 5 | 0 | 30 | |
| 4:55 PM | 0 | 0 | 2 | 0 | 4 | 0 | 2 | 0 | 4 | 11 | 0 | 0 | 3 | 5 | 9 | 0 | 40 | 409 |
| 5:00 PM | 0 | 0 | 3 | 0 | 7 | 1 | 1 | 0 | 0 | 11 | 0 | 0 | 4 | 14 | 9 | 0 | 50 | 420 |
| 5:05 PM | 0 | 0 | 0 | 0 | 8 | 0 | 2 | 0 | 2 | 9 | 1 | 0 | 1 | 15 | 4 | 0 | 42 | 429 |
| 5:10 PM | 0 | 0 | 1 | 0 | 4 | 0 | 1 | 0 | 1 | 21 | 0 | 0 | 1 | 15 | 6 | 0 | 50 | 458 |
| 5:15 PM | 0 | 0 | 1 | 0 | 4 | 1 | 2 | 0 | 0 | 10 | 0 | 0 | 2 | 11 | 4 | 0 | 35 | 460 |
| 5:20 PM | 0 | 0 | 3 | 0 | 5 | 0 | 2 | 0 | 1 | 18 | 0 | 0 | 1 | 14 | 9 | 0 | 53 | 488 |
| 5:25 PM | 0 | 0 | 3 | 0 | 6 | 0 | 1 | 0 | 0 | 20 | 0 | 0 | 2 | 6 | 7 | 0 | 45 | 493 |
| 5:30 PM | 0 | 0 | 1 | 0 | 8 | 0 | 1 | 0 | 5 | 12 | 0 | 0 | 2 | 11 | 6 | 1 | 47 | 503 |
| 5:35 PM | 0 | 0 | 1 | 0 | 6 | 1 | 2 | 0 | 1 | 18 | 0 | 0 | 3 | 8 | 5 | 0 | 45 | 517 |
| 5:40 PM | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 3 | 9 | 2 | 0 | 29 | 500 |
| 5:45 PM | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 10 | 1 | 0 | 1 | 13 | 7 | 1 | 38 | 504 |
| 5:50 PM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 8 | 1 | 0 | 2 | 13 | 11 | 0 | 40 | 514 |
| 5:55 PM | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 11 | 0 | 0 | 1 | 12 | 5 | 0 | 36 | 510 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 0 | 0 | 28 | 0 | 76 | 0 | 16 | 0 | 24 | 200 | 0 | 0 | 20 | 124 | 88 | 4 | 580 |
| Heavy Trucks | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 4 | 0 | | 0 | 8 | 8 | | 20 |
| Pedestrians | | 4 | | | | 0 | | | | 0 | | | | 0 | | | 4 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 1 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** 3. 30th St -- Rosamond Blvd

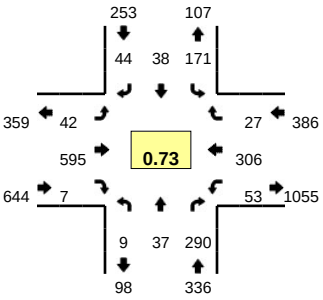
**CITY/STATE:** Rosamond, CA

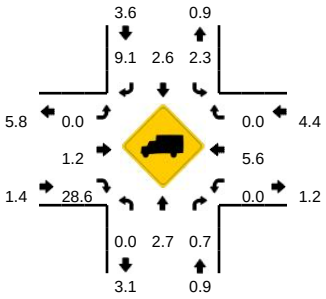
**QC JOB #:** 14668405

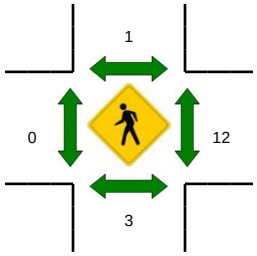
**DATE:** Tue, Apr 03 2018

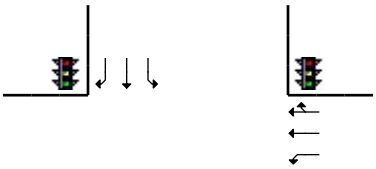
**Peak-Hour: 7:00 AM -- 8:00 AM**

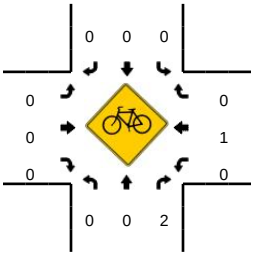
**Peak 15-Min: 7:10 AM -- 7:25 AM**

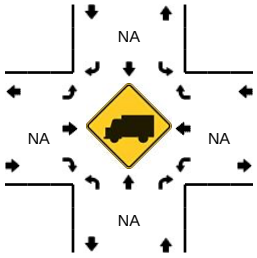


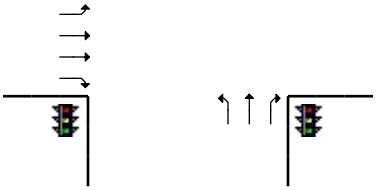



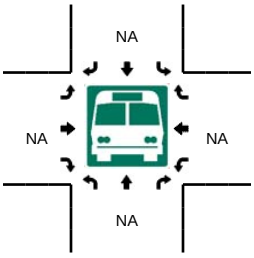








| 5-Min Count Period Beginning At | 3. 30th St (Northbound) | | | | 3. 30th St (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 7:00 AM | 2 | 1 | 30 | 0 | 9 | 3 | 2 | 0 | 2 | 52 | 0 | 0 | 3 | 21 | 0 | 0 | 125 | |
| 7:05 AM | 0 | 1 | 23 | 0 | 13 | 3 | 4 | 0 | 2 | 66 | 1 | 0 | 9 | 26 | 0 | 0 | 148 | |
| 7:10 AM | 1 | 8 | 39 | 0 | 13 | 6 | 7 | 0 | 4 | 54 | 0 | 0 | 7 | 33 | 0 | 0 | 172 | |
| 7:15 AM | 1 | 12 | 26 | 0 | 27 | 8 | 6 | 0 | 12 | 51 | 0 | 0 | 7 | 21 | 5 | 0 | 176 | |
| 7:20 AM | 0 | 11 | 38 | 0 | 31 | 11 | 8 | 0 | 12 | 57 | 1 | 0 | 8 | 22 | 5 | 0 | 204 | |
| 7:25 AM | 0 | 2 | 28 | 0 | 25 | 3 | 5 | 0 | 4 | 58 | 0 | 0 | 3 | 21 | 2 | 0 | 151 | |
| 7:30 AM | 1 | 0 | 24 | 0 | 15 | 1 | 8 | 1 | 0 | 65 | 1 | 0 | 4 | 23 | 1 | 0 | 144 | |
| 7:35 AM | 0 | 1 | 22 | 0 | 7 | 0 | 1 | 0 | 2 | 38 | 0 | 0 | 3 | 9 | 2 | 0 | 85 | |
| 7:40 AM | 1 | 0 | 14 | 0 | 13 | 0 | 2 | 0 | 0 | 45 | 1 | 0 | 3 | 21 | 2 | 0 | 102 | |
| 7:45 AM | 0 | 0 | 15 | 0 | 7 | 0 | 1 | 0 | 1 | 46 | 2 | 0 | 1 | 35 | 3 | 0 | 111 | |
| 7:50 AM | 2 | 1 | 14 | 0 | 4 | 2 | 0 | 0 | 1 | 29 | 0 | 0 | 5 | 35 | 2 | 0 | 95 | |
| 7:55 AM | 1 | 0 | 17 | 0 | 6 | 1 | 0 | 0 | 2 | 34 | 1 | 0 | 0 | 39 | 5 | 0 | 106 | 1619 |
| 8:00 AM | 0 | 0 | 17 | 0 | 1 | 1 | 1 | 0 | 0 | 27 | 0 | 0 | 3 | 26 | 0 | 0 | 76 | 1570 |
| 8:05 AM | 1 | 0 | 11 | 0 | 12 | 0 | 1 | 0 | 1 | 31 | 1 | 0 | 5 | 34 | 3 | 0 | 100 | 1522 |
| 8:10 AM | 0 | 0 | 13 | 0 | 4 | 0 | 1 | 0 | 2 | 37 | 0 | 0 | 2 | 22 | 0 | 0 | 81 | 1431 |
| 8:15 AM | 0 | 2 | 12 | 0 | 4 | 0 | 0 | 0 | 1 | 19 | 0 | 0 | 2 | 28 | 0 | 0 | 68 | 1323 |
| 8:20 AM | 0 | 0 | 6 | 0 | 4 | 0 | 2 | 0 | 0 | 38 | 0 | 0 | 3 | 26 | 2 | 0 | 81 | 1200 |
| 8:25 AM | 3 | 2 | 6 | 0 | 4 | 1 | 2 | 0 | 0 | 42 | 1 | 0 | 2 | 25 | 0 | 0 | 88 | 1137 |
| 8:30 AM | 1 | 0 | 10 | 0 | 12 | 1 | 0 | 0 | 1 | 39 | 0 | 0 | 2 | 28 | 2 | 0 | 96 | 1089 |
| 8:35 AM | 1 | 0 | 17 | 0 | 4 | 1 | 1 | 0 | 1 | 40 | 0 | 0 | 1 | 27 | 1 | 0 | 94 | 1098 |
| 8:40 AM | 1 | 0 | 10 | 0 | 6 | 0 | 1 | 0 | 2 | 45 | 0 | 0 | 3 | 18 | 1 | 0 | 87 | 1083 |
| 8:45 AM | 1 | 0 | 14 | 0 | 2 | 0 | 1 | 0 | 2 | 42 | 0 | 0 | 2 | 17 | 1 | 0 | 82 | 1054 |
| 8:50 AM | 0 | 0 | 9 | 0 | 2 | 0 | 0 | 0 | 1 | 27 | 1 | 0 | 7 | 19 | 0 | 0 | 66 | 1025 |
| 8:55 AM | 0 | 2 | 8 | 0 | 4 | 1 | 1 | 0 | 0 | 20 | 1 | 0 | 2 | 10 | 2 | 0 | 51 | 970 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 8 | 124 | 412 | 0 | 284 | 100 | 84 | 0 | 112 | 648 | 4 | 0 | 88 | 304 | 40 | 0 | 2208 |
| Heavy Trucks | 0 | 4 | 0 | | 4 | 0 | 8 | | 0 | 0 | 0 | | 0 | 4 | 0 | | 20 |
| Pedestrians | | 8 | | | | 4 | | | | 0 | | | | 24 | | | 36 |
| Bicycles | 0 | 0 | 1 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 1 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** 3. 30th St -- Rosamond Blvd

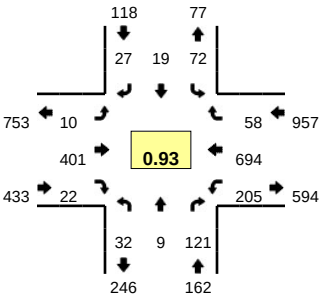
**CITY/STATE:** Rosamond, CA

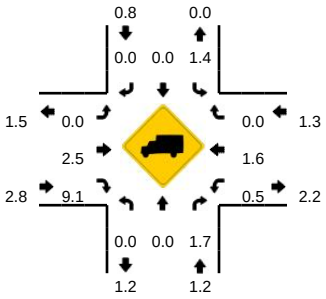
**QC JOB #:** 14668406

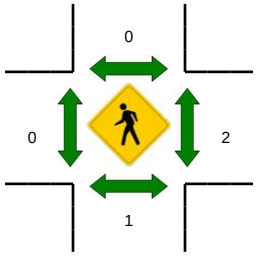
**DATE:** Tue, Apr 03 2018

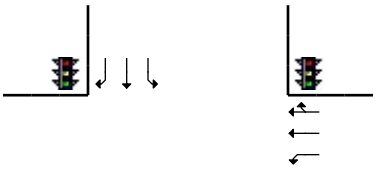
**Peak-Hour: 4:40 PM -- 5:40 PM**

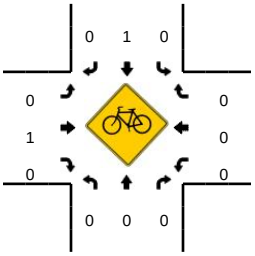
**Peak 15-Min: 5:10 PM -- 5:25 PM**

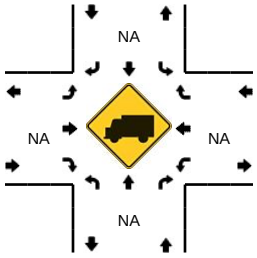


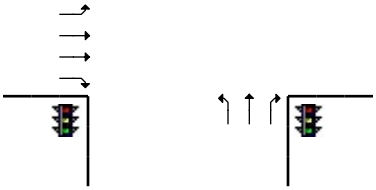



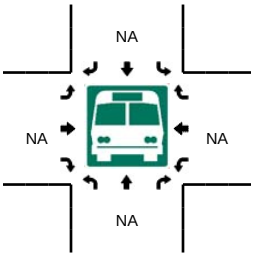








| 5-Min Count Period Beginning At | 3. 30th St (Northbound) | | | | 3. 30th St (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 4:00 PM | 3 | 2 | 10 | 0 | 3 | 0 | 1 | 0 | 0 | 34 | 1 | 0 | 19 | 47 | 4 | 0 | 124 | |
| 4:05 PM | 2 | 1 | 9 | 0 | 0 | 0 | 1 | 0 | 0 | 32 | 0 | 0 | 25 | 57 | 5 | 0 | 132 | |
| 4:10 PM | 3 | 1 | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 30 | 1 | 0 | 19 | 49 | 5 | 0 | 118 | |
| 4:15 PM | 1 | 1 | 4 | 0 | 7 | 1 | 1 | 0 | 0 | 25 | 2 | 0 | 18 | 54 | 6 | 0 | 120 | |
| 4:20 PM | 4 | 1 | 9 | 0 | 4 | 1 | 2 | 0 | 1 | 29 | 1 | 0 | 11 | 45 | 5 | 0 | 113 | |
| 4:25 PM | 2 | 0 | 10 | 0 | 4 | 2 | 1 | 0 | 0 | 27 | 0 | 0 | 18 | 51 | 6 | 0 | 121 | |
| 4:30 PM | 0 | 2 | 9 | 0 | 4 | 1 | 0 | 0 | 0 | 38 | 0 | 0 | 12 | 50 | 6 | 0 | 122 | |
| 4:35 PM | 4 | 0 | 14 | 0 | 3 | 0 | 3 | 0 | 0 | 23 | 1 | 0 | 15 | 42 | 10 | 1 | 116 | |
| 4:40 PM | 4 | 1 | 10 | 0 | 5 | 1 | 2 | 0 | 3 | 37 | 0 | 0 | 27 | 57 | 2 | 0 | 149 | |
| 4:45 PM | 2 | 1 | 11 | 0 | 8 | 1 | 0 | 0 | 1 | 36 | 3 | 0 | 12 | 51 | 7 | 0 | 133 | |
| 4:50 PM | 2 | 2 | 9 | 0 | 9 | 1 | 1 | 0 | 0 | 29 | 3 | 0 | 19 | 68 | 3 | 0 | 146 | |
| 4:55 PM | 0 | 0 | 10 | 0 | 4 | 0 | 1 | 0 | 1 | 28 | 3 | 0 | 15 | 55 | 9 | 0 | 126 | 1520 |
| 5:00 PM | 7 | 1 | 4 | 0 | 6 | 1 | 2 | 0 | 0 | 31 | 2 | 0 | 19 | 54 | 5 | 0 | 132 | 1528 |
| 5:05 PM | 4 | 1 | 12 | 0 | 4 | 4 | 2 | 0 | 1 | 36 | 2 | 0 | 13 | 52 | 6 | 0 | 137 | 1533 |
| 5:10 PM | 1 | 1 | 10 | 0 | 6 | 0 | 1 | 0 | 1 | 34 | 1 | 0 | 19 | 73 | 7 | 0 | 154 | 1569 |
| 5:15 PM | 2 | 0 | 12 | 0 | 6 | 3 | 3 | 0 | 0 | 43 | 1 | 0 | 17 | 59 | 7 | 0 | 153 | 1602 |
| 5:20 PM | 0 | 0 | 11 | 0 | 13 | 5 | 8 | 0 | 2 | 40 | 0 | 0 | 14 | 48 | 3 | 0 | 144 | 1633 |
| 5:25 PM | 5 | 1 | 10 | 0 | 4 | 2 | 2 | 0 | 1 | 20 | 0 | 0 | 20 | 65 | 3 | 0 | 133 | 1645 |
| 5:30 PM | 3 | 1 | 8 | 0 | 2 | 0 | 5 | 0 | 0 | 35 | 5 | 0 | 11 | 60 | 2 | 0 | 132 | 1655 |
| 5:35 PM | 2 | 0 | 14 | 0 | 5 | 1 | 0 | 0 | 0 | 32 | 2 | 0 | 19 | 52 | 4 | 0 | 131 | 1670 |
| 5:40 PM | 2 | 0 | 10 | 0 | 4 | 0 | 0 | 0 | 2 | 34 | 1 | 0 | 14 | 51 | 3 | 0 | 121 | 1642 |
| 5:45 PM | 1 | 0 | 11 | 0 | 4 | 2 | 1 | 0 | 1 | 25 | 2 | 0 | 12 | 55 | 5 | 0 | 119 | 1628 |
| 5:50 PM | 1 | 2 | 11 | 0 | 6 | 2 | 0 | 0 | 1 | 29 | 0 | 0 | 18 | 53 | 6 | 0 | 129 | 1611 |
| 5:55 PM | 3 | 2 | 13 | 0 | 7 | 0 | 2 | 0 | 0 | 28 | 0 | 0 | 9 | 49 | 3 | 0 | 116 | 1601 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 12 | 4 | 132 | 0 | 100 | 32 | 48 | 0 | 12 | 468 | 8 | 0 | 200 | 720 | 68 | 0 | 1804 |
| Heavy Trucks | 0 | 0 | 0 | | 4 | 0 | 0 | | 0 | 8 | 0 | | 4 | 4 | 0 | | 20 |
| Pedestrians | | 0 | | | | 0 | | | | 0 | | | | 0 | | | 0 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

Location: SR14 SB Ramps/Acacia St & Rosamond Blvd
Date: 4/3/2018
Site Code: 14668407

| | SR14 SB Ramps Southbound | | | | | Rosamond Blvd Westbound | | | |
|---|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left to On-Ramp | Left | U-Turn | Right to On-Ramp | Thru | Left | Left to On-Ramp |
| 07:00 AM | 3 | 0 | 0 | 3 | 0 | 9 | 49 | 0 | 0 |
| 07:05 AM | 4 | 0 | 0 | 4 | 0 | 20 | 56 | 0 | 0 |
| 07:10 AM | 4 | 0 | 0 | 2 | 0 | 13 | 73 | 1 | 0 |
| 07:15 AM | 5 | 0 | 0 | 4 | 0 | 20 | 60 | 0 | 0 |
| 07:20 AM | 11 | 0 | 0 | 6 | 0 | 12 | 31 | 0 | 0 |
| 07:25 AM | 3 | 0 | 0 | 2 | 0 | 28 | 74 | 0 | 0 |
| 07:30 AM | 0 | 0 | 0 | 1 | 0 | 24 | 50 | 1 | 0 |
| 07:35 AM | 3 | 0 | 0 | 5 | 0 | 29 | 27 | 0 | 0 |
| 07:40 AM | 2 | 0 | 0 | 8 | 0 | 23 | 43 | 1 | 0 |
| 07:45 AM | 1 | 0 | 0 | 2 | 0 | 24 | 59 | 0 | 0 |
| 07:50 AM | 4 | 0 | 0 | 4 | 0 | 17 | 57 | 0 | 0 |
| 07:55 AM | 2 | 0 | 0 | 3 | 0 | 17 | 69 | 1 | 0 |
| 08:00 AM | 6 | 0 | 0 | 3 | 0 | 31 | 66 | 0 | 0 |
| 08:05 AM | 7 | 0 | 0 | 2 | 0 | 26 | 49 | 0 | 0 |
| 08:10 AM | 2 | 0 | 0 | 1 | 0 | 16 | 37 | 1 | 0 |
| 08:15 AM | 1 | 0 | 0 | 7 | 0 | 27 | 42 | 1 | 0 |
| 08:20 AM | 4 | 0 | 0 | 4 | 0 | 13 | 39 | 1 | 0 |
| 08:25 AM | 6 | 0 | 0 | 2 | 0 | 21 | 37 | 1 | 0 |
| 08:30 AM | 6 | 0 | 0 | 5 | 0 | 24 | 39 | 0 | 0 |
| 08:35 AM | 2 | 0 | 0 | 4 | 0 | 20 | 32 | 0 | 0 |
| 08:40 AM | 3 | 0 | 0 | 3 | 0 | 23 | 24 | 1 | 0 |
| 08:45 AM | 3 | 0 | 0 | 0 | 0 | 14 | 30 | 1 | 0 |
| 08:50 AM | 4 | 0 | 0 | 1 | 0 | 19 | 30 | 1 | 0 |
| 08:55 AM | 3 | 0 | 0 | 3 | 0 | 11 | 20 | 0 | 0 |
| **Total** | **89** | **0** | **0** | **79** | **0** | **481** | **1093** | **11** | **0** |

**Peak Hour:** 7:00 AM - 8:00 AM
**Peak 15-Min:** 7:15 AM - 7:30 AM
**PHF:** 0.939602

| | SR14 SB On-Ramp Northwestbound | | | | | Acacia St Northbound | | | |
|---|---|---|---|---|---|---|---|---|---|
| U-Turn | Hard Right | Bear Right | Bear Left | Hard Left | U-Turn | Right to On-Ramp | Right | Thru | Left |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0** | **0** | **0** | **0** | **0** | **0** | **4** | **10** | **0** | **12** |

| | Rosamond Blvd Eastbound | | | | |
|---|---|---|---|---|---|
| U-Turn | Right | Right to On-Ramp | Thru | Left | U-Turn |
| 0 | 0 | 29 | 39 | 0 | 0 |
| 0 | 1 | 41 | 73 | 0 | 0 |
| 0 | 1 | 39 | 86 | 0 | 0 |
| 0 | 0 | 36 | 79 | 0 | 0 |
| 0 | 1 | 48 | 49 | 0 | 0 |
| 0 | 1 | 37 | 84 | 0 | 0 |
| 0 | 1 | 64 | 65 | 0 | 0 |
| 0 | 0 | 57 | 63 | 0 | 0 |
| 0 | 0 | 35 | 52 | 0 | 0 |
| 0 | 1 | 37 | 71 | 0 | 0 |
| 0 | 1 | 37 | 37 | 0 | 0 |
| 0 | 0 | 23 | 43 | 0 | 0 |
| 0 | 0 | 21 | 42 | 0 | 0 |
| 0 | 0 | 38 | 30 | 0 | 0 |
| 0 | 0 | 29 | 50 | 0 | 0 |
| 0 | 0 | 35 | 27 | 0 | 0 |
| 0 | 0 | 29 | 38 | 0 | 0 |
| 0 | 1 | 30 | 35 | 0 | 0 |
| 0 | 1 | 23 | 38 | 0 | 0 |
| 0 | 0 | 33 | 38 | 0 | 0 |
| 0 | 0 | 45 | 43 | 0 | 0 |
| 0 | 1 | 30 | 35 | 0 | 0 |
| 0 | 0 | 27 | 30 | 0 | 0 |
| 0 | 0 | 19 | 23 | 0 | 0 |
| **0** | **10** | **842** | **1170** | **0** | **0** |

Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

Location: SR14 SB Ramps/Acacia St & Rosamond Blvd
Date: 4/3/2018
Site Code: 14668408

| | SR14 SB Ramps Southbound | | | | | Rosamond Bl Westbound | | |
|---|---|---|---|---|---|---|---|---|
| Start Time | Right | Thru | Left to On-Ramp | Left | U-Turn | Right to On-Ramp | Thru | Left |
| 04:00 PM | 6 | 0 | 0 | 10 | 0 | 72 | 111 | 1 |
| 04:05 PM | 7 | 0 | 0 | 3 | 0 | 45 | 88 | 0 |
| 04:10 PM | 9 | 0 | 0 | 9 | 0 | 44 | 88 | 1 |
| 04:15 PM | 7 | 0 | 0 | 2 | 0 | 49 | 101 | 2 |
| 04:20 PM | 8 | 0 | 0 | 4 | 0 | 67 | 92 | 1 |
| 04:25 PM | 8 | 0 | 0 | 7 | 0 | 77 | 82 | 1 |
| 04:30 PM | 11 | 0 | 0 | 7 | 0 | 69 | 93 | 0 |
| 04:35 PM | 7 | 0 | 0 | 5 | 0 | 70 | 95 | 0 |
| 04:40 PM | 12 | 0 | 0 | 11 | 0 | 62 | 97 | 0 |
| 04:45 PM | 11 | 0 | 0 | 7 | 0 | 46 | 95 | 1 |
| 04:50 PM | 12 | 0 | 0 | 12 | 0 | 61 | 94 | 2 |
| 04:55 PM | 7 | 0 | 0 | 3 | 0 | 69 | 99 | 1 |
| 05:00 PM | 7 | 0 | 0 | 9 | 0 | 69 | 113 | 1 |
| 05:05 PM | 9 | 1 | 0 | 8 | 0 | 56 | 101 | 0 |
| 05:10 PM | 8 | 0 | 0 | 4 | 0 | 72 | 113 | 1 |
| 05:15 PM | 7 | 0 | 0 | 3 | 0 | 70 | 95 | 3 |
| 05:20 PM | 8 | 0 | 0 | 8 | 0 | 53 | 95 | 1 |
| 05:25 PM | 7 | 0 | 0 | 4 | 0 | 41 | 88 | 0 |
| 05:30 PM | 5 | 0 | 0 | 5 | 0 | 35 | 98 | 0 |
| 05:35 PM | 6 | 0 | 0 | 2 | 0 | 48 | 100 | 2 |
| 05:40 PM | 6 | 0 | 0 | 8 | 0 | 47 | 85 | 0 |
| 05:45 PM | 3 | 0 | 0 | 5 | 0 | 38 | 86 | 1 |
| 05:50 PM | 6 | 1 | 0 | 4 | 0 | 28 | 88 | 1 |
| 05:55 PM | 6 | 1 | 0 | 4 | 0 | 49 | 89 | 1 |
| **Total** | **183** | **3** | **0** | **144** | **0** | **1337** | **2286** | **21** |

**Peak Hour:** 4:30 PM - 5:30 PM
**Peak 15-Min:** 5:00 PM - 5:15 PM
**PHF:** 0.918147

| vd | | SR14 SB On-Ramp Northwestbound | | | | | Acacia St Northbound | | |
|---|---|---|---|---|---|---|---|---|---|
| Left to On-Ramp | U-Turn | Hard Right | Bear Right | Bear Left | Hard Left | U-Turn | Right to On-Ramp | Right | Thru |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| **0** | **2** | **0** | **0** | **0** | **0** | **0** | **9** | **12** | **0** |

| | | Rosamond Blvd Eastbound | | | | |
|---|---|---|---|---|---|---|
| Left | U-Turn | Right | Right to On-Ramp | Thru | Left | U-Turn |
| 1 | 0 | 0 | 24 | 56 | 0 | 0 |
| 0 | 0 | 0 | 31 | 45 | 0 | 0 |
| 0 | 0 | 2 | 17 | 38 | 0 | 0 |
| 0 | 0 | 0 | 26 | 25 | 0 | 0 |
| 1 | 0 | 0 | 20 | 38 | 0 | 0 |
| 0 | 0 | 0 | 19 | 33 | 0 | 0 |
| 0 | 0 | 0 | 16 | 46 | 0 | 0 |
| 0 | 0 | 0 | 26 | 29 | 0 | 0 |
| 0 | 0 | 0 | 21 | 30 | 0 | 0 |
| 1 | 0 | 0 | 20 | 53 | 0 | 0 |
| 0 | 0 | 1 | 24 | 35 | 0 | 0 |
| 2 | 0 | 3 | 24 | 41 | 0 | 0 |
| 1 | 0 | 0 | 21 | 46 | 0 | 0 |
| 0 | 0 | 3 | 30 | 39 | 0 | 0 |
| 0 | 0 | 0 | 21 | 62 | 0 | 0 |
| 0 | 0 | 0 | 23 | 41 | 0 | 0 |
| 1 | 0 | 1 | 23 | 36 | 0 | 0 |
| 1 | 0 | 0 | 26 | 58 | 0 | 0 |
| 0 | 0 | 0 | 24 | 31 | 0 | 0 |
| 0 | 0 | 0 | 25 | 40 | 0 | 0 |
| 0 | 0 | 0 | 26 | 39 | 0 | 0 |
| 0 | 0 | 1 | 19 | 40 | 0 | 0 |
| 0 | 0 | 1 | 24 | 32 | 0 | 0 |
| 0 | 0 | 0 | 21 | 31 | 0 | 0 |
| **8** | **0** | **12** | **551** | **964** | **0** | **0** |

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

**LOCATION:** 5. SR14 NB Ramps -- Rosamond Blvd

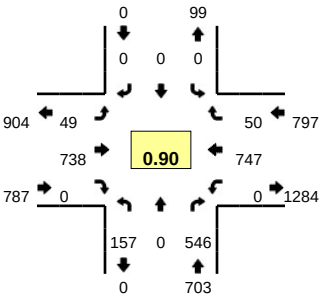
**CITY/STATE:** Rosamond, CA

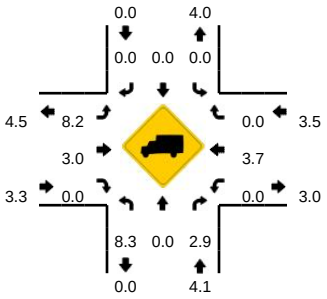
**QC JOB #:** 14668409

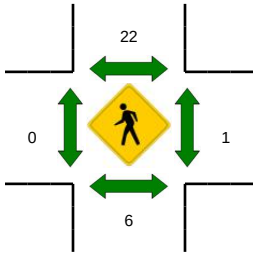
**DATE:** Tue, Apr 03 2018

**Peak-Hour: 7:00 AM -- 8:00 AM**

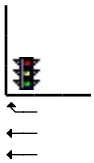
**Peak 15-Min: 7:05 AM -- 7:20 AM**

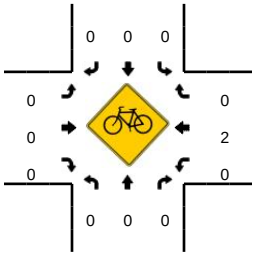


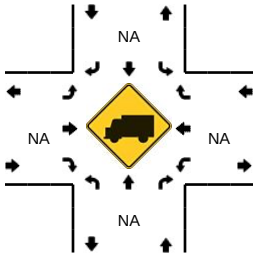



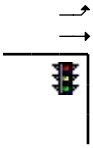



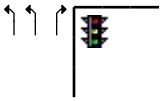


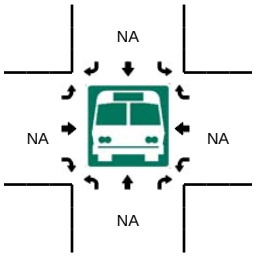










| 5-Min Count Period Beginning At | 5. SR14 NB Ramps (Northbound) | | | | 5. SR14 NB Ramps (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 7:00 AM | 22 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 6 | 40 | 0 | 0 | 0 | 52 | 3 | 0 | 186 | |
| 7:05 AM | 14 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 1 | 67 | 0 | 0 | 0 | 56 | 2 | 0 | 192 | |
| 7:10 AM | 16 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 3 | 75 | 0 | 0 | 0 | 66 | 2 | 0 | 222 | |
| 7:15 AM | 12 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 4 | 75 | 0 | 0 | 0 | 69 | 6 | 0 | 220 | |
| 7:20 AM | 17 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 5 | 54 | 0 | 0 | 0 | 41 | 1 | 0 | 165 | |
| 7:25 AM | 6 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 3 | 69 | 0 | 0 | 0 | 91 | 3 | 0 | 213 | |
| 7:30 AM | 20 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 4 | 67 | 0 | 0 | 0 | 49 | 9 | 0 | 189 | |
| 7:35 AM | 2 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 6 | 75 | 0 | 0 | 0 | 64 | 3 | 0 | 200 | |
| 7:40 AM | 14 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 4 | 54 | 0 | 0 | 0 | 50 | 5 | 0 | 176 | |
| 7:45 AM | 13 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 8 | 75 | 0 | 0 | 0 | 68 | 7 | 0 | 200 | |
| 7:50 AM | 12 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 4 | 43 | 0 | 0 | 0 | 56 | 3 | 0 | 151 | |
| 7:55 AM | 9 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 1 | 44 | 0 | 0 | 0 | 85 | 6 | 0 | 173 | 2287 |
| 8:00 AM | 13 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 3 | 41 | 0 | 0 | 0 | 76 | 7 | 0 | 165 | 2266 |
| 8:05 AM | 15 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 4 | 34 | 0 | 0 | 0 | 56 | 4 | 0 | 141 | 2215 |
| 8:10 AM | 12 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 5 | 44 | 0 | 0 | 0 | 43 | 6 | 0 | 135 | 2128 |
| 8:15 AM | 8 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 5 | 30 | 0 | 0 | 0 | 61 | 3 | 0 | 132 | 2040 |
| 8:20 AM | 8 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 3 | 40 | 0 | 0 | 0 | 47 | 0 | 0 | 110 | 1985 |
| 8:25 AM | 9 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 3 | 35 | 0 | 0 | 0 | 55 | 7 | 0 | 126 | 1898 |
| 8:30 AM | 9 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 6 | 33 | 0 | 0 | 0 | 50 | 2 | 0 | 111 | 1820 |
| 8:35 AM | 13 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 3 | 39 | 0 | 0 | 0 | 44 | 7 | 0 | 121 | 1741 |
| 8:40 AM | 11 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 2 | 48 | 0 | 0 | 0 | 27 | 6 | 0 | 110 | 1675 |
| 8:45 AM | 9 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 38 | 0 | 0 | 0 | 41 | 1 | 0 | 108 | 1583 |
| 8:50 AM | 17 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 33 | 0 | 0 | 0 | 32 | 5 | 0 | 100 | 1532 |
| 8:55 AM | 8 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 22 | 0 | 0 | 0 | 20 | 1 | 0 | 65 | 1424 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 168 | 0 | 664 | 0 | 0 | 0 | 0 | 0 | 32 | 868 | 0 | 0 | 0 | 764 | 40 | 0 | 2536 |
| Heavy Trucks | 12 | 0 | 16 | | 0 | 0 | 0 | | 8 | 28 | 0 | | 0 | 16 | 0 | | 80 |
| Pedestrians | | 0 | | | | 24 | | | | 0 | | | | 0 | | | 24 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 1 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

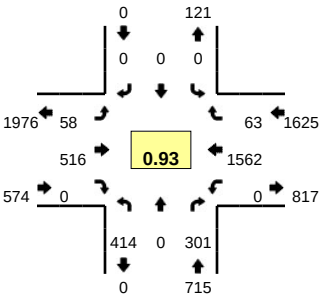
**LOCATION:** 5. SR14 NB Ramps -- Rosamond Blvd

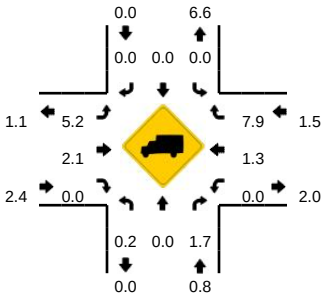
**QC JOB #:** 14668410

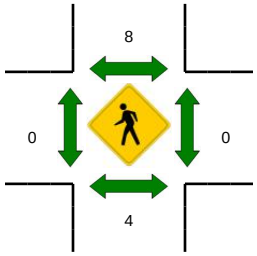
**CITY/STATE:** Rosamond, CA

**DATE:** Tue, Apr 03 2018

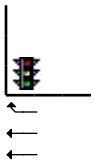
**Peak-Hour: 4:20 PM -- 5:20 PM**
**Peak 15-Min: 5:00 PM -- 5:15 PM**

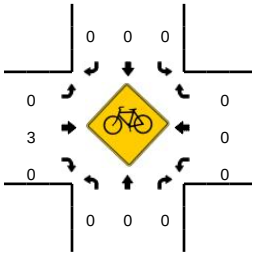


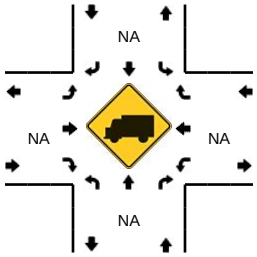



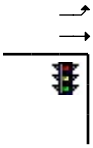



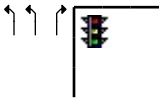


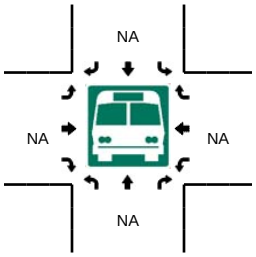










| 5-Min Count Period Beginning At | 5. SR14 NB Ramps (Northbound) | | | | 5. SR14 NB Ramps (Southbound) | | | | Rosamond Blvd (Eastbound) | | | | Rosamond Blvd (Westbound) | | | | Total | Hourly Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | | |
| 4:00 PM | 36 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 6 | 55 | 0 | 0 | 0 | 125 | 7 | 0 | 258 | |
| 4:05 PM | 35 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 7 | 48 | 0 | 0 | 0 | 97 | 5 | 0 | 210 | |
| 4:10 PM | 39 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 4 | 40 | 0 | 0 | 0 | 115 | 9 | 0 | 238 | |
| 4:15 PM | 35 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 4 | 27 | 0 | 0 | 0 | 114 | 2 | 0 | 209 | |
| 4:20 PM | 22 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 6 | 33 | 0 | 0 | 0 | 124 | 3 | 0 | 212 | |
| 4:25 PM | 32 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 4 | 38 | 0 | 0 | 0 | 139 | 4 | 0 | 246 | |
| 4:30 PM | 30 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 3 | 39 | 0 | 0 | 0 | 126 | 8 | 0 | 230 | |
| 4:35 PM | 33 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 3 | 41 | 0 | 0 | 0 | 141 | 6 | 0 | 250 | |
| 4:40 PM | 35 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 6 | 34 | 0 | 0 | 0 | 106 | 6 | 0 | 216 | |
| 4:45 PM | 32 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 5 | 49 | 0 | 0 | 0 | 117 | 5 | 0 | 230 | |
| 4:50 PM | 35 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 6 | 49 | 0 | 0 | 0 | 141 | 5 | 0 | 262 | |
| 4:55 PM | 31 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 3 | 40 | 0 | 0 | 0 | 124 | 5 | 0 | 222 | 2783 |
| 5:00 PM | 41 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 6 | 50 | 0 | 0 | 0 | 149 | 7 | 0 | 271 | 2796 |
| 5:05 PM | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 6 | 43 | 0 | 0 | 0 | 118 | 3 | 0 | 232 | 2818 |
| 5:10 PM | 45 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 5 | 60 | 0 | 0 | 0 | 145 | 4 | 0 | 284 | 2864 |
| 5:15 PM | 47 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 5 | 40 | 0 | 0 | 0 | 132 | 7 | 0 | 259 | 2914 |
| 5:20 PM | 46 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 6 | 55 | 0 | 0 | 0 | 68 | 6 | 0 | 200 | 2902 |
| 5:25 PM | 40 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 6 | 38 | 0 | 0 | 0 | 95 | 7 | 0 | 214 | 2870 |
| 5:30 PM | 42 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 0 | 0 | 0 | 102 | 4 | 0 | 206 | 2846 |
| 5:35 PM | 35 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 7 | 33 | 0 | 0 | 0 | 107 | 9 | 0 | 216 | 2812 |
| 5:40 PM | 43 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 6 | 47 | 0 | 0 | 0 | 91 | 1 | 0 | 213 | 2809 |
| 5:45 PM | 36 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 4 | 37 | 0 | 0 | 0 | 90 | 11 | 0 | 208 | 2787 |
| 5:50 PM | 37 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 3 | 29 | 0 | 0 | 0 | 80 | 7 | 0 | 174 | 2699 |
| 5:55 PM | 49 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 5 | 45 | 0 | 0 | 0 | 92 | 3 | 0 | 212 | 2689 |

| Peak 15-Min Flowrates | Northbound | | | | Southbound | | | | Eastbound | | | | Westbound | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | Left | Thru | Right | U | |
| All Vehicles | 468 | 0 | 296 | 0 | 0 | 0 | 0 | 0 | 68 | 612 | 0 | 0 | 0 | 1648 | 56 | 0 | 3148 |
| Heavy Trucks | 0 | 0 | 4 | | 0 | 0 | 0 | | 8 | 16 | 0 | | 0 | 20 | 8 | | 56 |
| Pedestrians | | 0 | | | | 0 | | | | 0 | | | | 0 | | | 0 |
| Bicycles | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 |
| Railroad | | | | | | | | | | | | | | | | | |
| Stopped Buses | | | | | | | | | | | | | | | | | |

*Comments:*

Report generated on 4/9/2018 2:06 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

# CUMULATIVE PROJECTS LIST

| Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|
| **KERN COUNTY PROJECTS** | | | | | | | |
| 1. Optisolar, Eugene Gabrych 12125 | 140th at Dawn, Rosamond | | CUP 23, Map 232 | Temp. use of solar research and design | 358-021-07 | 161.00 | |
| 2. French, Daren, 12477 | W/S College Heights Boulevard | | ZCC, Map 94 | ZCC to allow solar farm | 097-180-08 | 20.00 | |
| 3. Jbrcy LLC/Richard yang, 12928 | East Mojave | | ZCC 2, Map 174 | To a-1 to develop site for solar energy | 228-271-02 | 126.00 | |
| 4. Ge Energy by Ty Remington, 12930 | South Of Hyw 58, East Chantico Road | | CUP 36, Map 167 | Ten - 20 mw solar voltaic panels | 224-120-11 | 820.00 | |
| 5. Megawatt Development Holdings/John Bissell, 13107 | N/S Mcconnell Ave., Rosamond | | CUP, Map 215 | 1 mw solar research facility | 474-140-10 | 40.00 | |
| 6. Ed Shahnazarian by Nelms Surveying, 13116 | Highway 14, 2.5 mi. N. of Phillips | | CUP, Map 152 | CUP to allow for the construction of solar panels | 469-290-08 | 133.00 | |
| 7. Sinarpower Inc., 13125 | South of Oak Creek Road. | | CUP 10, Map 197-20 | Solar energy facility | 237-360-05 | 17.50 | |
| 8. Mon-Wei Lin, 13141 | SWC Rosamond Boulevard & 130th St. West | | CUP, Map 232-21 | Solar facility | 359-020-05 | 320.00 | |
| 9. La Department of Water and Power, 13222 | | | CUP 5, Map 150-14 | CUP for a 10 mw solar photovoltaic electrical generating facility. | 461-050-02 | 75.00 | |

Note: Project Status is based on the Windhub Solar Project Administrative Draft Environmental Impact Report, dated March 2018.

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 10. | Enxco Development Corporation, 13254 | Neuralia and Washburn | | CUP 8, Map 152 | 20 mw solar project | 330-010-01 | 637.00 | |
| 11. | Great Lakes II by Recurrent Energy, 13376 | W/S 10 St. West 1/4 m. N of Cypress | | CUP 34, Map 230-33 | CUP to allow for the construction of a 5 mw PV solar facility | 473-023-10 | 40.00 | |
| 12. | Rio Grande solar by recurrent energy, 13377 | E/S Hwy 14 & Sierra Hwy | | CUP 30, Map 196 | CUP to allow construction of a 5 mw PV solar facility | 427-400-00 | 46.00 | |
| 13. | Cantil solar project by nautilus solar energy, LLC, 13380 | Section valley Road & Norton Road | | ZCC 12, Map 133 | ZCC | 181-040-01 | 77.00 | |
| 14. | Cantil solar project by nautilus solar energy, LLC, 13381 | Section valley Road & Norton Road | | CUP 12, Map 133 | CUP to allow the construction of a 9 mw PV solar facility | 181-040-01 | 77.00 | |
| 15. | North Muroc Solar Project by Nautilus Solar Energy, 13382 | N Hwy 58 West of 140 | | ZCC 9, Map 194 | ZCC | 234-061-10 | 73.00 | |
| 16. | North Muroc Solar Project by Nautilus Solar Energy, 13383 | N. Hwy 58 West of 140 | | CUP 7, Map 194 | CUP to allow the construction of a 9 mw solar facility | 234-061-10 | 73.00 | |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 17. | Pensco Trust Company, 13418 | N of 395 @ Avenida del Sol & Buckle | | CUP, Map 46 | CUP to construct single axis solar tracker electricity generation facility. | 064-440-20 | 37.00 | |
| 18. | Renewable Resources Group Holding Co, 13427 | N&S Hwy 178; btw Fay Ranch & Bonkell | | ZCC 3, Map 42-13 | ZCC to a; solar 60 mw on 500 acres | 426-032-15 | 590.00 | |
| 19. | Renewable Resources Group Holding Co, 13428 | N&S Hwy 178; btw Fay Ranch & Bonkell | | ZCC 1, Map 42-24 | ZCC to a; solar 60 mw on 500 acres | 426-035-02 | 590.00 | |
| 20. | Renewable Resources Group Holding Co, 13429 | N&S Hwy 178; btw Fay Ranch & Bonkell | | CUP 1, Map 42-13 | Solar 60 mw on 500 acres | 426-032-15 | 590.00 | |
| 21. | Mitchell, B.J., 13503 | Red Apple and Reeves St | | CUP 14, Map 166-19 | Tehachapi Performing Arts Center, with auditorium, museum, with solar and wind turbines | 223-110-35 | 7.25 | |
| 22. | Jonathan Bender, 13539 | 1300 btw of Hwy 58 (South side) | | CUP, Map 196-16 | Mojave Solar Park by Cal West Energy | 236-360-12 | 29.00 | |
| 23. | Duane P. Deblauw, 13540 | 15thStreetWest, Rosamond, ca | | CUP, Map 230-21 | 1.5 mw PV solar project by interstate mini storage LLC (Deblauw Builders, Inc.) | 258-090-27 | 9.22 | |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 24. | Sunlight Partners, LLC (Mark Roberts), 13571 | NW Corner W Rosamond And 83RoadStreetW | | ZCC, Map 231 | PV solar site on 29 acres | 252-322-20 | 29.55 | |
| 25. | Sunlight Partners, LLC (Mark Roberts), 13572 | N of Elder between 90th W & 85th w | | ZCC, Map 231-32 | PV solar site on 19 acres | 374-250-08 | 19.78 | |
| 26. | The Aeromen LLC, 13636 | 2 miles West of Mojave on Oak Creek | | CUP, Map 197-13 | Solar: four PV solar projects on 237 acres (three 5mw and one 10mw) | 237-562-12 | 237.00 | |
| 27. | WDG Capital Partners (Elliott Macdougal), 13672 | S Of Rosamond Boulevard-East Of 80th W | | CUP, Map 231-21 | Gettysburg Solar Project by Weymouth Development Group (WDG) - 20 mw photovoltaic solar facility | 374-011-38 | 120.00 | |
| 28. | Wdg Capital Partners (Elliott Macdougal), 13673 | S of Rosamond Boulevard- East of 80th w | | Spa, Map 231-21 | Gettysburg Solar Project by Weymouth Development Group (wdg) - 20 mw photovoltaic solar facility | 374-011-38 | 120.00 | |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 29. | Wdg Capital Partners (Elliott Macdougal), 13674 | S of Rosamond Boulevard-East of 80th w | | ZCC, Map 231-21 | Gettysburg Solar Project by Weymouth Development Group (wdg) - 20 mw photovoltaic solar facility | 374-011-38 | 120.00 | |
| 30. | Nextera Energy Resources, 13722 | 9 miles North of California City | | CUP 11, Map 152-4 | 250 mw PV solar facility. Contact: Brandon Stankiewicz | 469-021-01 | 2320.00 | |
| 31. | Prewoznik, Marilyn, 13799 | East of Hwy. 58 @ 140thStreetEast | | CUP, Map 193 | Solar photovoltaic facility | 233-340-16 | 63.90 | |
| 32. | Prewoznik, Marilyn, 13800 | E of Hwy. 58 @ 140th St. East | | CUP, Map 193 | Solar photovoltaic facility | 233-350-06 | 106.00 | |
| 33. | Sunshine Solar Project/Cogentrix Sunshine, LLC, 13890 | NWC of Av A & 90th West | | CUP, Map | CUP for a 40 mw PV solar facility | 374-460-12 | 319.00 | |
| 34. | Sunshine Solar Project/Cogentrix Sunshine, LLC, 13891 | NWC of Av A & 90th West | | ZCC, Map | ZCC from e(2 1/2) rs fps to a | 374-460-12 | 319.00 | |
| 35. | Frv Mojave Solar, Lp, 13892 | Section/ Sierra Hwy & Sopp Road | | CUP, Map 213-27 | CUP for 20 mw PV solar facility | 431-010-02 | 174.00 | |
| 36. | Frv Mojave Solar, Lp, 13893 | Section/ Sierra Hwy & Sopp Road | | ZCC, Map 213-27 | ZCC to a for 20 mw solar PV | 431-010-02 | 174.00 | |
| 37. | High Desert Solar/Element Power Inc., 13895 | NWC/Intersec Purdy Av & United St | | CUP 34, Map 196 | CUP for 18 mw solar PV facility | 427-020-45 | 154.00 | |

| Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|
| 38. David Firestone, 14225 | 5 miles West of Willow Springs Road | | CUP, Map 199 | 20 MW Solar | 400-053-02 | 160.00 | |
| 39. American Solar Utility, LLC, 14298 | 14486 Borax Road, Boron | | CUP, Map 192-26 | PV Solar System | 232-082-04 | 9.77 | |
| 40. American Solar Utility LLC, 14312 | Highway 58 and Northgate Boulevard | | CUP, Map 194-36 | Develop PV Solar System | 234-350-01 | 46.40 | |
| 41. Seth Israel, Re Garland LLC, 14376 | Ptns. Of Map 233 and 234 | | CUP, Map | 200 MW Solar Facility | | 2116.00 | |
| 42. Seth Israel, Re Garland LLC, 14377 | | | ZCC, Map | ZCC to A for 200 MW Solar Facility | | 2116.00 | |
| 43. Robbie Barker, 14504 | E. of Inyokern Road and Brown Road | | CUP, Map 47-29 | CUP for new commercial solar | 084-010-43 | 100.00 | |
| 44. EDFRenewable Development Inc.- Richard Miller, 14506 | W. of Rosamond, Southwest of SR 58 | | CUP, Map 232 | Commercial (100 MW) Solar Photovoltaic Facility | 358-021-04 | 2250.00 | |
| 45. Gettysburg Solar LLC, 14512 | SW corner of Rosamond & 70th St. W | | SPA, Map 213-21 | 20 MW Solar Facility | 374-011-06 | 159.00 | |
| 46. Gettysburg Solar LLC, 14513 | SW corner of Rosamond & 70th St. W | | ZCC, Map 213-21 | 20 MW Solar Facility | 374-011-06 | 159.00 | |
| 47. Gettysburg Solar LLC, 14515 | SW corner of Rosamond & 70th St. W | | CUP, Map 213-21 | 20 MW Solar Facility | 374-011-06 | 159.00 | |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 48. | EDF Renewable Energy/ Catalina Solar 2, 14578 | | | CUP 11, Map 215 | CUP for new 15 meter microwave tower | 474-154-21 | 20.45 | |
| 49. | Roshawn Helmandi, 14596 | Jameson Road and Jameson St | | CUP, Map 166 | CUP for solar project | 223-360-34 | 75.69 | |
| 50. | Jack Pigott/Windhub Solar A LLC, 14656 | 90th St. West and Purdy, Mojave | | CUP, Map 197 | 20-megawatt solar farm | 237-350-02 | 304.00 | |
| 51. | Derrill Whitten Jr., 14805 | Sun Canyon CA | | CUP, Map 149-36 | Proposed site for solar farm | 460-050-01 | 25.29 | |
| 52. | EDF Renewable Energy/Bar 13 Solar, 14834 | 125th Street W. Champagne Ave | | CUP, Map 215 | Installation of microwave/communication tower with associated uses within a fenced yard | 474-131-03 | 38.58 | |
| 53. | Sunpower Corporation, Systems, 14996 | 38874 Holiday Avenue, Rosamond, CA | | CUP, Map -232 | CUP for Solar Facility | | 476.00 | |
| 54. | Apollo Solar Project By Lendlease Energy Dev., 15013 | SWC of Backus Road & Teh. Willow Sp. | | CUP 38, Map 214-19 | CUP for Solar Project (Tours Site) | 346-022-03 | 160.47 | |
| 55. | Apollo Solar Project By Lendlease Energy Dev., 15014 | SECTION of Backus Road & 100th St. W. | | CUP 39, Map 214-19 | CUP for Solar Project (Syracuse Site) | 346-022-03 | 165.87 | |

| Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|
| 56. Camino Solar Project By Aurora Solar, LLC, 15020 | N. 175thStreetWest. (Manzana Wind) | | CUP, Map 216 | CUP for proposed 44 MW Solar Facility on public & private land | 476-052-09 | 339.00 | |
| 57. Ip Solar Company, 15253 | SECTION of MoConnell & 105th | | CUP, Map 215-36 | CUP for Solar Facility | 474-120-04 | 40.00 | |
| 58. Apollo Solar Project By Lendlease Energy Dev., 15274 | NEC or Backus Road & 100th St. West | | CUP 37, Map 214-18 | CUP for solar project (Sunbow Site). APN 346-131-12, 13, 14, 15, 16, 17, 18 & 19) | 346-131-12 | 173.45 | |
| 59.Lendlease Energy Development, 15275 | SECTION of Backus Road. & 100th St. W. | | CUP 40, Map 214-19 | concrete batch plant (for use in conjunction with construction of Apollo solar project) | 346-022-03 | | |
| 60. RE Astoria by RE Astoria LLC (Recurrent) | Astoria Drive 180th Street, Avenue A, and 205th Street, Willow Springs area | 175 MW solar facility<br>Astoria 1 – 131MW<br>Astoria 2 – 100MW | CUP 10, Map 233 | Info unavailable | Multiple | Approx. 2,000 acres | Approved 11/13/14<br>Operational Q4/2016 |
| 61. RE Rosamond One | NW Favorito and 60th | 26 MW solar facility | SPA 1, ZCC 1, CUP 3, Map 231-03 | SPA, ZCC, CUP for a PV solar facility, ZCC from 5.4 to A and A FPS | 252-013-01 | 320 acres | Approved 12/6/11<br>Operational Q3/2013 |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 62. | RE Rosamond Two | Willow Springs | 21 MW solar facility | CUP 4, Map 231-03 | SPA, ZCC, CUP for a PV solar facility, ZCC from 5.4 to A | 252-013-01 | 160 acres | Approved 12/6/11<br>Operational Q3/2013 |
| 63. | Rosamond Solar Array by First Solar/Rosamond Solar, LLC | Two sites; the larger site is located north of the intersection of Rosamond Boulevard and 130th Street West. The smaller site is located south of the intersection of Rosamond Boulevard and 110th Street West | 150 MW solar facility | GPA 14, ZCC 31, CUP 25, Map 232 | Info unavailable | Info unavailable | 1,177 acres | Approved 10/9/14<br>Under construction<br>Projected Operations date: Q4/2018 |
| 64. | Rosamond Solar by SGS Antelope Valley | Portion of Sec 29, 32 and 33 of Sec 9/14 | 120 MW solar facility | GPA, ZCC, CUP | GPA, ZCC and CUP for a PV solar facility | 359-350-01 | 960 acres,<br>400 acres,<br>486 acres | 200MW Approved 11/9/2010<br>2013 Addendum Additional 100WM<br>Approved 6/13/2013,<br>2016 Addendum Additional 90MW in process |

| | Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|---|
| 65. | Willow Springs Solar Array by First Solar | Northwest of Rosamond | 160 MW solar facility | GPA 15, ZCC 32, CUP 26, Map 232 | GPA , ZCC, CUP for a PV solar facility, ZCC from SP to A | 359-052-02, 359-031-02, 03, 04, 05, 06, 15, 359-032-01, 17 | 1,402 acres | Approved March 2016<br>Under construction |
| 66. | Kingbird Solar | Northwest corner of 170th<br>Street West and Avenue A | 40 MW solar facility | SPA, ZCC, CUP | 3/ZCC 16 /CUP<br>9 Map 233 | 261-196-07 | 324 acres | Approved 10/9/14<br>Operational<br>04/2016 |
| 67. | Valentine Solar | Northeast corner of Hamilton Rd and 132nd Street West | 115 MW solar facility | GPA, SPA, ZCC, CUP | GPA 3/SPA 20/ZCC 12, 37/CUP 9, 10, 12, 30 | Multiple | 1,430 acres | Approved June 2016<br>Projected Operations 12/2019 |
| 68. | Avalon Wind Energy Project | Immediately north of the intersection of Backus Road and Tehachapi-Willow Springs Road, Mojave Desert area, eastern Kern County | 300 MW | GPA, ZCC, CUP | ZCC to allow wind turbines onsite, CUP to allow for concrete batch plants | Multiple; 736 privately owned parcels | 7,369 acres | Approved; Anticipated to be operational in 2017 |
| 69. | Catalina Renewable Energy Project | Two miles west of Backus Road and Tehachapi-Willow Springs Road | 200 MW wind from 134 wind turbines and 150 MW solar from 2,241,000 modules | ZCC, CUP | ZCC to join WE Combining District, CUP to allow temporary concrete batch plants | Multiple; 345 privately owned parcels | 6,739 acres | Approved December 2011; 143 MW Solar operational |

| Project Name/ Sponsor | Project Location | Project Description | Case Type | Request | Project Site APN | Acreage/ Square Feet | Project Status |
|---|---|---|---|---|---|---|---|
| 70. Pacific Wind Energy | To the north and west of the intersection of Rosamond Boulevard and 170th Street West | 140 MW from wind turbine generators | ZCC, CUP | ZCC to incorporate the WE Combining District, CUP to allow the use of concrete batch plants | Multiple; 480 privately owned parcels | 8,500 acres | Operational 02/2012 |
| **LOS ANGELES COUNTY PROJECTS** | | | | | | | |
| 71. R2011-00833 North Lancaster Ranch | 10455 West Avenue B, Lancaster | Proposed 22.5 MW PV project and a 10,000 gallon water tank | RZC | Info unavailable | Info unavailable | 240 acres | Approved 6/11/14 Operational 12/2016 |
| 72. R2009-02239 AV Solar Ranch One | Avenue D and 170th Street West, Fairmont | 240 MW PV project | RCUP | | 3254-018-006 to -013; 3257-010-033 to -040; 3236-001-024 to -039 | 2,093 acres | Approved 12/7/10 Operational 04/2014 |

Note: Project Status is based on the Windhub Solar Project Administrative Draft Environmental Impact Report, dated March 2018.

# Attachment B. Existing Conditions LOS Sheets

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 7.7 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 20 | 4 | 10 | 21 | 23 | 9 | 35 | 9 | 25 | 53 | 12 |
| Future Vol, veh/h | 1 | 20 | 4 | 10 | 21 | 23 | 9 | 35 | 9 | 25 | 53 | 12 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 0 | 20 | 0 | 0 | 33 | 9 | 33 | 26 | 0 | 4 | 21 | 0 |
| Mvmt Flow | 1 | 23 | 5 | 11 | 24 | 26 | 10 | 40 | 10 | 29 | 61 | 14 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 7.4 | 7.4 | 8.1 | 7.8 |
| HCM LOS | A | A | A | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 4% | 19% | 28% |
| Vol Thru, % | 66% | 80% | 39% | 59% |
| Vol Right, % | 17% | 16% | 43% | 13% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 53 | 25 | 54 | 90 |
| LT Vol | 9 | 1 | 10 | 25 |
| Through Vol | 35 | 20 | 21 | 53 |
| RT Vol | 9 | 4 | 23 | 12 |
| Lane Flow Rate | 61 | 29 | 62 | 103 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.078 | 0.034 | 0.071 | 0.119 |
| Departure Headway (Hd) | 4.632 | 4.255 | 4.091 | 4.148 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 766 | 846 | 881 | 856 |
| Service Time | 2.703 | 2.257 | 2.092 | 2.216 |
| HCM Lane V/C Ratio | 0.08 | 0.034 | 0.07 | 0.12 |
| HCM Control Delay | 8.1 | 7.4 | 7.4 | 7.8 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.3 | 0.1 | 0.2 | 0.4 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 14.6 |
| Intersection LOS | B |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 37 | 81 | 0 | 9 | 84 | 219 | 0 | 6 | 10 | 191 | 6 | 29 |
| Future Vol, veh/h | 37 | 81 | 0 | 9 | 84 | 219 | 0 | 6 | 10 | 191 | 6 | 29 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles, % | 3 | 6 | 0 | 0 | 13 | 1 | 0 | 17 | 10 | 3 | 0 | 3 |
| Mvmt Flow | 52 | 114 | 0 | 13 | 118 | 308 | 0 | 8 | 14 | 269 | 8 | 41 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 11.5 | 12.7 | 10 | 19.2 |
| HCM LOS | B | B | A | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 85% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 6 | 10 | 37 | 81 | 0 | 9 | 84 | 219 | 226 |
| LT Vol | 0 | 0 | 37 | 0 | 0 | 9 | 0 | 0 | 191 |
| Through Vol | 6 | 0 | 0 | 81 | 0 | 0 | 84 | 0 | 6 |
| RT Vol | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 219 | 29 |
| Lane Flow Rate | 8 | 14 | 52 | 114 | 0 | 13 | 118 | 308 | 318 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.018 | 0.026 | 0.107 | 0.22 | 0 | 0.024 | 0.215 | 0.481 | 0.599 |
| Departure Headway (Hd) | 7.597 | 6.764 | 7.398 | 6.94 | 6.836 | 6.813 | 6.53 | 5.613 | 6.779 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 468 | 525 | 483 | 515 | 0 | 524 | 548 | 638 | 532 |
| Service Time | 5.391 | 4.557 | 5.175 | 4.717 | 4.613 | 4.575 | 4.292 | 3.375 | 4.538 |
| HCM Lane V/C Ratio | 0.017 | 0.027 | 0.108 | 0.221 | 0 | 0.025 | 0.215 | 0.483 | 0.598 |
| HCM Control Delay | 10.5 | 9.7 | 11.1 | 11.7 | 9.6 | 9.7 | 11.1 | 13.5 | 19.2 |
| HCM Lane LOS | B | A | B | B | N | A | B | B | C |
| HCM 95th-tile Q | 0.1 | 0.1 | 0.4 | 0.8 | 0 | 0.1 | 0.8 | 2.6 | 3.9 |



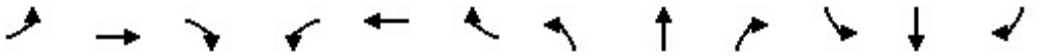
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 42 | 595 | 7 | 53 | 306 | 27 | 9 | 37 | 290 | 171 | 38 | 44 |
| Future Volume (veh/h) | 42 | 595 | 7 | 53 | 306 | 27 | 9 | 37 | 290 | 171 | 38 | 44 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.99 | 1.00 | | 0.97 | 1.00 | | 0.99 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1885 | 1470 | 1900 | 1811 | 1811 | 1900 | 1856 | 1885 | 1870 | 1856 | 1767 |
| Adj Flow Rate, veh/h | 58 | 815 | 10 | 73 | 419 | 37 | 12 | 51 | 397 | 234 | 52 | 60 |
| Peak Hour Factor | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Percent Heavy Veh, % | 0 | 1 | 29 | 0 | 6 | 6 | 0 | 3 | 1 | 2 | 3 | 9 |
| Cap, veh/h | 115 | 1030 | 356 | 124 | 935 | 82 | 61 | 535 | 455 | 263 | 745 | 596 |
| Arrive On Green | 0.06 | 0.29 | 0.29 | 0.07 | 0.29 | 0.29 | 0.03 | 0.29 | 0.29 | 0.15 | 0.40 | 0.40 |
| Sat Flow, veh/h | 1810 | 3582 | 1239 | 1810 | 3192 | 280 | 1810 | 1856 | 1578 | 1781 | 1856 | 1484 |
| Grp Volume(v), veh/h | 58 | 815 | 10 | 73 | 225 | 231 | 12 | 51 | 397 | 234 | 52 | 60 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1791 | 1239 | 1810 | 1721 | 1752 | 1810 | 1856 | 1578 | 1781 | 1856 | 1484 |
| Q Serve(g_s), s | 3.2 | 21.4 | 0.6 | 4.0 | 10.8 | 10.9 | 0.7 | 2.0 | 24.4 | 13.1 | 1.8 | 2.6 |
| Cycle Q Clear(g_c), s | 3.2 | 21.4 | 0.6 | 4.0 | 10.8 | 10.9 | 0.7 | 2.0 | 24.4 | 13.1 | 1.8 | 2.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 115 | 1030 | 356 | 124 | 504 | 513 | 61 | 535 | 455 | 263 | 745 | 596 |
| V/C Ratio(X) | 0.51 | 0.79 | 0.03 | 0.59 | 0.45 | 0.45 | 0.20 | 0.10 | 0.87 | 0.89 | 0.07 | 0.10 |
| Avail Cap(c_a), veh/h | 356 | 1232 | 426 | 356 | 592 | 602 | 356 | 729 | 620 | 263 | 745 | 596 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.1 | 33.4 | 26.0 | 46.0 | 29.3 | 29.3 | 47.8 | 26.5 | 34.5 | 42.6 | 18.7 | 19.0 |
| Incr Delay (d2), s/veh | 2.1 | 3.5 | 0.0 | 2.7 | 1.0 | 1.0 | 0.9 | 0.1 | 10.7 | 28.7 | 0.0 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.5 | 9.6 | 0.2 | 1.9 | 4.6 | 4.7 | 0.3 | 0.9 | 10.5 | 7.8 | 0.8 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 48.2 | 37.0 | 26.1 | 48.7 | 30.3 | 30.3 | 48.7 | 26.6 | 45.2 | 71.3 | 18.8 | 19.1 |
| LnGrp LOS | D | D | C | D | C | C | D | C | D | E | B | B |
| Approach Vol, veh/h | | 883 | | | 529 | | | 460 | | | 346 | |
| Approach Delay, s/veh | | 37.6 | | | 32.8 | | | 43.2 | | | 54.4 | |
| Approach LOS | | D | | | C | | | D | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 11.6 | 35.3 | 8.1 | 46.9 | 11.0 | 35.8 | 19.6 | 35.3 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 20.0 | * 35 | 20.0 | * 35 | 20.0 | * 35 | 15.0 | * 40 |
| Max Q Clear Time (g_c+I1), s | 6.6 | 23.4 | 2.7 | 4.6 | 5.2 | 12.9 | 15.1 | 26.4 |
| Green Ext Time (p_c), s | 0.1 | 5.9 | 0.0 | 0.6 | 0.1 | 4.2 | 0.0 | 1.9 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 40.2 |
| HCM 6th LOS | D |

**Notes**

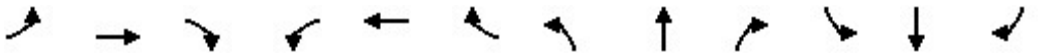
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1224 | 7 | 4 | 648 | 0 | 10 | 0 | 7 | 44 | 0 | 42 |
| Future Volume (vph) | 0 | 1224 | 7 | 4 | 648 | 0 | 10 | 0 | 7 | 44 | 0 | 42 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (prot) | | 3536 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | | 1555 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.78 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (perm) | | 3536 | | 1770 | 3539 | | 1461 | | 1583 | 1770 | | 1555 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 0 | 1302 | 7 | 4 | 689 | 0 | 11 | 0 | 7 | 47 | 0 | 45 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1309 | 0 | 4 | 689 | 0 | 11 | 0 | 1 | 47 | 0 | 45 |
| Confl. Peds. (#/hr) | | | 5 | 5 | | | | | | | | 19 |
| Confl. Bikes (#/hr) | | | 1 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 39.0 | | 1.2 | 44.3 | | 5.1 | | 5.1 | 5.1 | | 58.9 |
| Effective Green, g (s) | | 39.0 | | 1.2 | 44.3 | | 5.1 | | 5.1 | 5.1 | | 58.9 |
| Actuated g/C Ratio | | 0.66 | | 0.02 | 0.75 | | 0.09 | | 0.09 | 0.09 | | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | | |
| Lane Grp Cap (vph) | | 2341 | | 36 | 2661 | | 126 | | 137 | 153 | | 1555 |
| v/s Ratio Prot | | c0.37 | | 0.00 | c0.19 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.03 | | 0.03 |
| v/c Ratio | | 0.56 | | 0.11 | 0.26 | | 0.09 | | 0.00 | 0.31 | | 0.03 |
| Uniform Delay, d1 | | 5.3 | | 28.3 | 2.2 | | 24.8 | | 24.6 | 25.2 | | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Incremental Delay, d2 | | 0.6 | | 0.9 | 0.2 | | 0.4 | | 0.0 | 1.6 | | 0.0 |
| Delay (s) | | 6.0 | | 29.2 | 2.4 | | 25.2 | | 24.6 | 26.9 | | 0.0 |
| Level of Service | | A | | C | A | | C | | C | C | | A |
| Approach Delay (s) | | 6.0 | | | 2.6 | | | 25.0 | | | 13.8 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 5.4 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.53 | | |
| Actuated Cycle Length (s) | 58.9 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 58.0% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 49 | 738 | 0 | 0 | 747 | 50 | 157 | 0 | 546 | 0 | 0 | 0 |
| Future Volume (vph) | 49 | 738 | 0 | 0 | 747 | 50 | 157 | 0 | 546 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 0.99 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 54 | 820 | 0 | 0 | 830 | 56 | 174 | 0 | 607 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 54 | 820 | 0 | 0 | 886 | 0 | 174 | 0 | 607 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 22 | | 6 | 6 | | 22 | | | 1 | 1 | | |
| Confl. Bikes (#/hr) | | | | | | 2 | | | | | | |
| Heavy Vehicles (%) | 8% | 3% | 0% | 0% | 4% | 0% | 8% | 0% | 3% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 4.5 | 41.3 | | | 29.7 | | 10.8 | | 62.0 | | | |
| Effective Green, g (s) | 4.5 | 41.3 | | | 29.7 | | 10.8 | | 62.0 | | | |
| Actuated g/C Ratio | 0.07 | 0.67 | | | 0.48 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 121 | 1229 | | | 1645 | | 564 | | 1549 | | | |
| v/s Ratio Prot | 0.03 | c0.44 | | | 0.26 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.05 | | c0.39 | | | |
| v/c Ratio | 0.45 | 0.67 | | | 0.54 | | 0.31 | | 0.39 | | | |
| Uniform Delay, d1 | 27.6 | 6.2 | | | 11.3 | | 22.3 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 1.9 | 2.2 | | | 0.8 | | 0.4 | | 0.7 | | | |
| Delay (s) | 29.5 | 8.4 | | | 12.2 | | 22.8 | | 0.7 | | | |
| Level of Service | C | A | | | B | | C | | A | | | |
| Approach Delay (s) | | 9.7 | | | 12.2 | | | 5.7 | | | 0.0 | |
| Approach LOS | | A | | | B | | | A | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 9.3 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.75 | | |
| Actuated Cycle Length (s) | 62.0 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 51.4% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 8.4 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 35 | 62 | 38 | 6 | 19 | 31 | 5 | 45 | 13 | 35 | 35 | 5 |
| Future Vol, veh/h | 35 | 62 | 38 | 6 | 19 | 31 | 5 | 45 | 13 | 35 | 35 | 5 |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles, % | 3 | 2 | 3 | 0 | 5 | 0 | 40 | 2 | 8 | 0 | 14 | 0 |
| Mvmt Flow | 47 | 83 | 51 | 8 | 25 | 41 | 7 | 60 | 17 | 47 | 47 | 7 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 8.6 | 7.7 | 8.9 | 8.3 |
| HCM LOS | A | A | A | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 8% | 26% | 11% | 47% |
| Vol Thru, % | 71% | 46% | 34% | 47% |
| Vol Right, % | 21% | 28% | 55% | 7% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 63 | 135 | 56 | 75 |
| LT Vol | 5 | 35 | 6 | 35 |
| Through Vol | 45 | 62 | 19 | 35 |
| RT Vol | 13 | 38 | 31 | 5 |
| Lane Flow Rate | 84 | 180 | 75 | 100 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.12 | 0.219 | 0.088 | 0.129 |
| Departure Headway (Hd) | 5.163 | 4.376 | 4.25 | 4.634 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 695 | 823 | 844 | 774 |
| Service Time | 3.191 | 2.395 | 2.274 | 2.66 |
| HCM Lane V/C Ratio | 0.121 | 0.219 | 0.089 | 0.129 |
| HCM Control Delay | 8.9 | 8.6 | 7.7 | 8.3 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.8 | 0.3 | 0.4 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 9.5 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 19 | 161 | 1 | 22 | 124 | 82 | 0 | 1 | 17 | 67 | 3 | 20 |
| Future Vol, veh/h | 19 | 161 | 1 | 22 | 124 | 82 | 0 | 1 | 17 | 67 | 3 | 20 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 11 | 1 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 5 |
| Mvmt Flow | 21 | 181 | 1 | 25 | 139 | 92 | 0 | 1 | 19 | 75 | 3 | 22 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 10.1 | 9 | 8.2 | 9.9 |
| HCM LOS | B | A | A | A |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 74% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 22% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 1 | 17 | 19 | 161 | 1 | 22 | 124 | 82 | 90 |
| LT Vol | 0 | 0 | 19 | 0 | 0 | 22 | 0 | 0 | 67 |
| Through Vol | 1 | 0 | 0 | 161 | 0 | 0 | 124 | 0 | 3 |
| RT Vol | 0 | 17 | 0 | 0 | 1 | 0 | 0 | 82 | 20 |
| Lane Flow Rate | 1 | 19 | 21 | 181 | 1 | 25 | 139 | 92 | 101 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.002 | 0.028 | 0.036 | 0.272 | 0.001 | 0.04 | 0.21 | 0.12 | 0.167 |
| Departure Headway (Hd) | 5.93 | 5.23 | 6.087 | 5.414 | 4.693 | 5.83 | 5.43 | 4.693 | 5.955 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 598 | 677 | 586 | 660 | 757 | 612 | 658 | 759 | 599 |
| Service Time | 3.72 | 3.019 | 3.848 | 3.174 | 2.454 | 3.589 | 3.189 | 2.451 | 3.729 |
| HCM Lane V/C Ratio | 0.002 | 0.028 | 0.036 | 0.274 | 0.001 | 0.041 | 0.211 | 0.121 | 0.169 |
| HCM Control Delay | 8.7 | 8.2 | 9.1 | 10.2 | 7.5 | 8.8 | 9.6 | 8.1 | 9.9 |
| HCM Lane LOS | A | A | A | B | A | A | A | A | A |
| HCM 95th-tile Q | 0 | 0.1 | 0.1 | 1.1 | 0 | 0.1 | 0.8 | 0.4 | 0.6 |



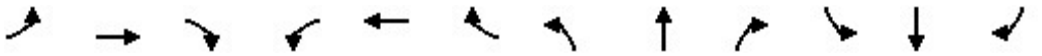
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 10 | 401 | 22 | 205 | 694 | 58 | 32 | 9 | 121 | 72 | 19 | 27 |
| Future Volume (veh/h) | 10 | 401 | 22 | 205 | 694 | 58 | 32 | 9 | 121 | 72 | 19 | 27 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1870 | 1767 | 1900 | 1870 | 1870 | 1900 | 1900 | 1870 | 1885 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 11 | 431 | 24 | 220 | 746 | 62 | 34 | 10 | 130 | 77 | 20 | 29 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 2 | 9 | 0 | 2 | 2 | 0 | 0 | 2 | 1 | 0 | 0 |
| Cap, veh/h | 40 | 797 | 328 | 274 | 1173 | 97 | 156 | 388 | 323 | 129 | 360 | 300 |
| Arrive On Green | 0.02 | 0.22 | 0.22 | 0.15 | 0.35 | 0.35 | 0.09 | 0.20 | 0.20 | 0.07 | 0.19 | 0.19 |
| Sat Flow, veh/h | 1810 | 3554 | 1461 | 1810 | 3321 | 276 | 1810 | 1900 | 1580 | 1795 | 1900 | 1584 |
| Grp Volume(v), veh/h | 11 | 431 | 24 | 220 | 399 | 409 | 34 | 10 | 130 | 77 | 20 | 29 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1777 | 1461 | 1810 | 1777 | 1820 | 1810 | 1900 | 1580 | 1795 | 1900 | 1584 |
| Q Serve(g_s), s | 0.4 | 6.5 | 0.8 | 7.1 | 11.4 | 11.4 | 1.1 | 0.3 | 4.3 | 2.5 | 0.5 | 0.9 |
| Cycle Q Clear(g_c), s | 0.4 | 6.5 | 0.8 | 7.1 | 11.4 | 11.4 | 1.1 | 0.3 | 4.3 | 2.5 | 0.5 | 0.9 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 40 | 797 | 328 | 274 | 628 | 643 | 156 | 388 | 323 | 129 | 360 | 300 |
| V/C Ratio(X) | 0.27 | 0.54 | 0.07 | 0.80 | 0.64 | 0.64 | 0.22 | 0.03 | 0.40 | 0.60 | 0.06 | 0.10 |
| Avail Cap(c_a), veh/h | 595 | 2045 | 841 | 595 | 1023 | 1048 | 595 | 1250 | 1040 | 443 | 1094 | 912 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.2 | 20.8 | 18.6 | 24.9 | 16.4 | 16.4 | 25.9 | 19.4 | 21.0 | 27.4 | 20.2 | 20.3 |
| Incr Delay (d2), s/veh | 2.2 | 0.9 | 0.1 | 3.4 | 1.7 | 1.7 | 0.4 | 0.0 | 1.0 | 2.7 | 0.1 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 2.6 | 0.3 | 3.1 | 4.4 | 4.5 | 0.5 | 0.1 | 1.6 | 1.1 | 0.2 | 0.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 31.4 | 21.7 | 18.8 | 28.3 | 18.1 | 18.1 | 26.3 | 19.4 | 22.0 | 30.1 | 20.3 | 20.5 |
| LnGrp LOS | C | C | B | C | B | B | C | B | C | C | C | C |
| Approach Vol, veh/h | | 466 | | | 1028 | | | 174 | | | 126 | |
| Approach Delay, s/veh | | 21.8 | | | 20.3 | | | 22.7 | | | 26.3 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.8 | 19.6 | 9.8 | 17.5 | 6.0 | 27.5 | 9.0 | 18.4 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 20.0 | * 35 | 20.0 | * 35 | 20.0 | * 35 | 15.0 | * 40 |
| Max Q Clear Time (g_c+I1), s | 9.1 | 8.5 | 3.1 | 2.9 | 2.4 | 13.4 | 4.5 | 6.3 |
| Green Ext Time (p_c), s | 0.3 | 4.7 | 0.0 | 0.2 | 0.0 | 8.0 | 0.1 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 21.3 |
| HCM 6th LOS | C |

Notes

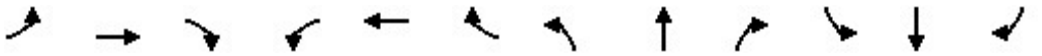
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 791 | 8 | 12 | 1178 | 0 | 6 | 0 | 11 | 81 | 1 | 106 |
| Future Volume (vph) | 0 | 791 | 8 | 12 | 1178 | 0 | 6 | 0 | 11 | 81 | 1 | 106 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | 1.00 | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3533 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | 1863 | 1560 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3533 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | 1863 | 1560 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 0 | 860 | 9 | 13 | 1280 | 0 | 7 | 0 | 12 | 88 | 1 | 115 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 869 | 0 | 13 | 1280 | 0 | 7 | 0 | 2 | 88 | 1 | 115 |
| Confl. Peds. (#/hr) | | | 6 | 6 | | | | | | | | 10 |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | NA | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 33.6 | | 1.3 | 39.0 | | 8.0 | | 8.0 | 8.0 | 8.0 | 56.5 |
| Effective Green, g (s) | | 33.6 | | 1.3 | 39.0 | | 8.0 | | 8.0 | 8.0 | 8.0 | 56.5 |
| Actuated g/C Ratio | | 0.59 | | 0.02 | 0.69 | | 0.14 | | 0.14 | 0.14 | 0.14 | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | 4.1 | |
| Lane Grp Cap (vph) | | 2101 | | 40 | 2442 | | 199 | | 224 | 250 | 263 | 1560 |
| v/s Ratio Prot | | 0.25 | | 0.01 | c0.36 | | | | | | 0.00 | |
| v/s Ratio Perm | | | | | | | 0.00 | | 0.00 | c0.05 | | 0.07 |
| v/c Ratio | | 0.41 | | 0.33 | 0.52 | | 0.04 | | 0.01 | 0.35 | 0.00 | 0.07 |
| Uniform Delay, d1 | | 6.2 | | 27.2 | 4.2 | | 20.9 | | 20.8 | 21.9 | 20.8 | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | | 0.4 | | 3.1 | 0.5 | | 0.1 | | 0.0 | 1.2 | 0.0 | 0.1 |
| Delay (s) | | 6.5 | | 30.3 | 4.8 | | 21.0 | | 20.9 | 23.1 | 20.8 | 0.1 |
| Level of Service | | A | | C | A | | C | | C | C | C | A |
| Approach Delay (s) | | 6.5 | | | 5.0 | | | 20.9 | | | 10.1 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 6.1 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.54 | | |
| Actuated Cycle Length (s) | 56.5 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 51.6% | ICU Level of Service | A |
| Analysis Period (min) | 15 | | |

c Critical Lane Group



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 58 | 516 | 0 | 0 | 1562 | 63 | 414 | 0 | 301 | 0 | 0 | 0 |
| Future Volume (vph) | 58 | 516 | 0 | 0 | 1562 | 63 | 414 | 0 | 301 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1719 | 1863 | | | 3540 | | 3502 | | 1583 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1719 | 1863 | | | 3540 | | 3502 | | 1583 | | | |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 62 | 555 | 0 | 0 | 1680 | 68 | 445 | 0 | 324 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 62 | 555 | 0 | 0 | 1748 | 0 | 445 | 0 | 324 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 8 | | 4 | 4 | | 8 | | | | | | |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Heavy Vehicles (%) | 5% | 2% | 0% | 0% | 1% | 8% | 0% | 0% | 2% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 4.8 | 46.8 | | | 34.9 | | 15.3 | | 72.0 | | | |
| Effective Green, g (s) | 4.8 | 46.8 | | | 34.9 | | 15.3 | | 72.0 | | | |
| Actuated g/C Ratio | 0.07 | 0.65 | | | 0.48 | | 0.21 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 114 | 1210 | | | 1715 | | 744 | | 1583 | | | |
| v/s Ratio Prot | 0.04 | c0.30 | | | c0.49 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.13 | | 0.20 | | | |
| v/c Ratio | 0.54 | 0.46 | | | 1.02 | | 0.60 | | 0.20 | | | |
| Uniform Delay, d1 | 32.5 | 6.3 | | | 18.6 | | 25.6 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 4.1 | 0.8 | | | 26.7 | | 1.5 | | 0.3 | | | |
| Delay (s) | 36.7 | 7.1 | | | 45.2 | | 27.1 | | 0.3 | | | |
| Level of Service | D | A | | | D | | C | | A | | | |
| Approach Delay (s) | | 10.1 | | | 45.2 | | | 15.8 | | | 0.0 | |
| Approach LOS | | B | | | D | | | B | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 31.1 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.89 | | |
| Actuated Cycle Length (s) | 72.0 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 67.8% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

# Attachment C. Construction Year (2021) Baseline LOS Sheets

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 7.8 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 22 | 4 | 11 | 23 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Future Vol, veh/h | 1 | 22 | 4 | 11 | 23 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 0 | 20 | 0 | 0 | 33 | 9 | 33 | 26 | 0 | 4 | 21 | 0 |
| Mvmt Flow | 1 | 25 | 5 | 13 | 26 | 29 | 11 | 45 | 11 | 32 | 67 | 15 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 7.5 | 7.5 | 8.2 | 7.9 |
| HCM LOS | A | A | A | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 4% | 19% | 28% |
| Vol Thru, % | 66% | 81% | 39% | 59% |
| Vol Right, % | 17% | 15% | 42% | 13% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 59 | 27 | 59 | 99 |
| LT Vol | 10 | 1 | 11 | 28 |
| Through Vol | 39 | 22 | 23 | 58 |
| RT Vol | 10 | 4 | 25 | 13 |
| Lane Flow Rate | 68 | 31 | 68 | 114 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.088 | 0.037 | 0.078 | 0.132 |
| Departure Headway (Hd) | 4.654 | 4.313 | 4.139 | 4.17 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 762 | 835 | 871 | 849 |
| Service Time | 2.735 | 2.315 | 2.14 | 2.247 |
| HCM Lane V/C Ratio | 0.089 | 0.037 | 0.078 | 0.134 |
| HCM Control Delay | 8.2 | 7.5 | 7.5 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.3 | 0.1 | 0.3 | 0.5 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 17.2 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 41 | 89 | 0 | 10 | 93 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Future Vol, veh/h | 41 | 89 | 0 | 10 | 93 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles, % | 3 | 6 | 0 | 0 | 13 | 1 | 0 | 17 | 10 | 3 | 0 | 3 |
| Mvmt Flow | 58 | 125 | 0 | 14 | 131 | 339 | 0 | 10 | 15 | 297 | 10 | 45 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 12.3 | 14.6 | 10.5 | 23.9 |
| HCM LOS | B | B | B | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 84% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 7 | 11 | 41 | 89 | 0 | 10 | 93 | 241 | 250 |
| LT Vol | 0 | 0 | 41 | 0 | 0 | 10 | 0 | 0 | 211 |
| Through Vol | 7 | 0 | 0 | 89 | 0 | 0 | 93 | 0 | 7 |
| RT Vol | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 241 | 32 |
| Lane Flow Rate | 10 | 15 | 58 | 125 | 0 | 14 | 131 | 339 | 352 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.022 | 0.031 | 0.126 | 0.256 | 0 | 0.028 | 0.247 | 0.553 | 0.686 |
| Departure Headway (Hd) | 8.105 | 7.268 | 7.825 | 7.365 | 7.26 | 7.068 | 6.785 | 5.866 | 7.016 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 444 | 495 | 461 | 490 | 0 | 503 | 525 | 611 | 511 |
| Service Time | 5.814 | 4.977 | 5.525 | 5.065 | 4.96 | 4.86 | 4.577 | 3.657 | 4.802 |
| HCM Lane V/C Ratio | 0.023 | 0.03 | 0.126 | 0.255 | 0 | 0.028 | 0.25 | 0.555 | 0.689 |
| HCM Control Delay | 11 | 10.2 | 11.6 | 12.6 | 10 | 10.1 | 11.8 | 15.8 | 23.9 |
| HCM Lane LOS | B | B | B | B | N | B | B | C | C |
| HCM 95th-tile Q | 0.1 | 0.1 | 0.4 | 1 | 0 | 0.1 | 1 | 3.4 | 5.2 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 656 | 8 | 58 | 337 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Future Volume (veh/h) | 46 | 656 | 8 | 58 | 337 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.97 | 1.00 | | 0.99 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1885 | 1470 | 1900 | 1811 | 1900 | 1900 | 1856 | 1885 | 1870 | 1856 | 1767 |
| Adj Flow Rate, veh/h | 63 | 899 | 11 | 79 | 462 | 41 | 14 | 56 | 438 | 258 | 58 | 67 |
| Peak Hour Factor | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Percent Heavy Veh, % | 0 | 1 | 29 | 0 | 6 | 0 | 0 | 3 | 1 | 2 | 3 | 9 |
| Cap, veh/h | 108 | 1101 | 381 | 115 | 992 | 88 | 68 | 528 | 449 | 288 | 758 | 606 |
| Arrive On Green | 0.06 | 0.31 | 0.31 | 0.06 | 0.31 | 0.31 | 0.04 | 0.28 | 0.28 | 0.16 | 0.41 | 0.41 |
| Sat Flow, veh/h | 1810 | 3582 | 1240 | 1810 | 3190 | 282 | 1810 | 1856 | 1577 | 1781 | 1856 | 1484 |
| Grp Volume(v), veh/h | 63 | 899 | 11 | 79 | 248 | 255 | 14 | 56 | 438 | 258 | 58 | 67 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1791 | 1240 | 1810 | 1721 | 1751 | 1810 | 1856 | 1577 | 1781 | 1856 | 1484 |
| Q Serve(g_s), s | 3.9 | 26.9 | 0.7 | 5.0 | 13.5 | 13.6 | 0.9 | 2.6 | 31.9 | 16.5 | 2.2 | 3.2 |
| Cycle Q Clear(g_c), s | 3.9 | 26.9 | 0.7 | 5.0 | 13.5 | 13.6 | 0.9 | 2.6 | 31.9 | 16.5 | 2.2 | 3.2 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 108 | 1101 | 381 | 115 | 535 | 545 | 68 | 528 | 449 | 288 | 758 | 606 |
| V/C Ratio(X) | 0.58 | 0.82 | 0.03 | 0.69 | 0.46 | 0.47 | 0.21 | 0.11 | 0.98 | 0.90 | 0.08 | 0.11 |
| Avail Cap(c_a), veh/h | 155 | 1273 | 441 | 162 | 619 | 630 | 187 | 528 | 449 | 390 | 758 | 606 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.1 | 37.1 | 28.1 | 53.2 | 32.2 | 32.2 | 54.1 | 30.6 | 41.1 | 47.6 | 20.9 | 21.2 |
| Incr Delay (d2), s/veh | 3.0 | 4.3 | 0.0 | 4.4 | 1.0 | 1.0 | 0.9 | 0.1 | 36.1 | 16.4 | 0.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.9 | 12.3 | 0.2 | 2.4 | 5.7 | 5.9 | 0.4 | 1.2 | 16.7 | 8.6 | 1.0 | 1.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 56.1 | 41.4 | 28.1 | 57.5 | 33.2 | 33.2 | 55.0 | 30.7 | 77.1 | 64.1 | 21.0 | 21.3 |
| LnGrp LOS | E | D | C | E | C | C | E | C | E | E | C | C |
| Approach Vol, veh/h | | 973 | | | 582 | | | 508 | | | 383 | |
| Approach Delay, s/veh | | 42.2 | | | 36.5 | | | 71.4 | | | 50.1 | |
| Approach LOS | | D | | | D | | | E | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.0 | 41.6 | 9.0 | 53.4 | 11.5 | 42.1 | 23.3 | 39.0 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 8.4 | * 41 | 12.0 | * 46 | 9.9 | * 42 | 25.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 7.9 | 28.9 | 2.9 | 5.2 | 5.9 | 15.6 | 18.5 | 33.9 |
| Green Ext Time (p_c), s | 0.0 | 6.7 | 0.0 | 0.7 | 0.0 | 5.0 | 0.3 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 48.1 |
| HCM 6th LOS | D |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1349 | 8 | 4 | 714 | 0 | 11 | 0 | 8 | 49 | 0 | 46 |
| Future Volume (vph) | 0 | 1349 | 8 | 4 | 714 | 0 | 11 | 0 | 8 | 49 | 0 | 46 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | | 1555 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | | 1555 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 0 | 1435 | 9 | 4 | 760 | 0 | 12 | 0 | 9 | 52 | 0 | 49 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1444 | 0 | 4 | 760 | 0 | 12 | 0 | 1 | 52 | 0 | 49 |
| Confl. Peds. (#/hr) | | | 5 | 5 | | | | | | | | 19 |
| Confl. Bikes (#/hr) | | | 1 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 44.1 | | 1.0 | 49.2 | | 5.3 | | 5.3 | 5.3 | | 64.0 |
| Effective Green, g (s) | | 44.1 | | 1.0 | 49.2 | | 5.3 | | 5.3 | 5.3 | | 64.0 |
| Actuated g/C Ratio | | 0.69 | | 0.02 | 0.77 | | 0.08 | | 0.08 | 0.08 | | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | | |
| Lane Grp Cap (vph) | | 2435 | | 27 | 2720 | | 116 | | 131 | 146 | | 1555 |
| v/s Ratio Prot | | c0.41 | | 0.00 | c0.21 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.03 | | 0.03 |
| v/c Ratio | | 0.59 | | 0.15 | 0.28 | | 0.10 | | 0.01 | 0.36 | | 0.03 |
| Uniform Delay, d1 | | 5.2 | | 31.1 | 2.2 | | 27.2 | | 26.9 | 27.7 | | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Incremental Delay, d2 | | 0.7 | | 1.7 | 0.2 | | 0.6 | | 0.0 | 2.1 | | 0.0 |
| Delay (s) | | 6.0 | | 32.7 | 2.3 | | 27.7 | | 27.0 | 29.9 | | 0.0 |
| Level of Service | | A | | C | A | | C | | C | C | | A |
| Approach Delay (s) | | 6.0 | | | 2.5 | | | 27.4 | | | 15.4 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 5.4 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.57 | | |
| Actuated Cycle Length (s) | 64.0 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 61.5% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 54 | 813 | 0 | 0 | 823 | 55 | 173 | 0 | 602 | 0 | 0 | 0 |
| Future Volume (vph) | 54 | 813 | 0 | 0 | 823 | 55 | 173 | 0 | 602 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 0.99 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 60 | 903 | 0 | 0 | 914 | 61 | 192 | 0 | 669 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 60 | 903 | 0 | 0 | 975 | 0 | 192 | 0 | 669 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 22 | | 6 | 6 | | 22 | | | 1 | 1 | | |
| Confl. Bikes (#/hr) | | | | | | 2 | | | | | | |
| Heavy Vehicles (%) | 8% | 3% | 0% | 0% | 4% | 0% | 8% | 0% | 3% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 4.6 | 43.7 | | | 32.0 | | 10.9 | | 64.5 | | | |
| Effective Green, g (s) | 4.6 | 43.7 | | | 32.0 | | 10.9 | | 64.5 | | | |
| Actuated g/C Ratio | 0.07 | 0.68 | | | 0.50 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 119 | 1250 | | | 1704 | | 547 | | 1549 | | | |
| v/s Ratio Prot | 0.04 | c0.49 | | | 0.28 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.06 | | c0.43 | | | |
| v/c Ratio | 0.50 | 0.72 | | | 0.57 | | 0.35 | | 0.43 | | | |
| Uniform Delay, d1 | 28.9 | 6.6 | | | 11.4 | | 23.7 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 2.4 | 3.0 | | | 0.9 | | 0.5 | | 0.9 | | | |
| Delay (s) | 31.3 | 9.5 | | | 12.4 | | 24.2 | | 0.9 | | | |
| Level of Service | C | A | | | B | | C | | A | | | |
| Approach Delay (s) | | 10.9 | | | 12.4 | | | 6.1 | | | 0.0 | |
| Approach LOS | | B | | | B | | | A | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 9.9 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.81 | | |
| Actuated Cycle Length (s) | 64.5 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 55.8% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 8.7 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 39 | 68 | 42 | 7 | 21 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Future Vol, veh/h | 39 | 68 | 42 | 7 | 21 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles, % | 3 | 2 | 3 | 0 | 5 | 0 | 40 | 2 | 8 | 0 | 14 | 0 |
| Mvmt Flow | 52 | 91 | 56 | 9 | 28 | 45 | 8 | 67 | 19 | 52 | 52 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 8.9 | 7.9 | 9.1 | 8.6 |
| HCM LOS | A | A | A | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 9% | 26% | 11% | 46% |
| Vol Thru, % | 71% | 46% | 34% | 46% |
| Vol Right, % | 20% | 28% | 55% | 7% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 70 | 149 | 62 | 84 |
| LT Vol | 6 | 39 | 7 | 39 |
| Through Vol | 50 | 68 | 21 | 39 |
| RT Vol | 14 | 42 | 34 | 6 |
| Lane Flow Rate | 93 | 199 | 83 | 112 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.136 | 0.245 | 0.1 | 0.147 |
| Departure Headway (Hd) | 5.25 | 4.443 | 4.337 | 4.711 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 682 | 809 | 825 | 760 |
| Service Time | 3.289 | 2.472 | 2.371 | 2.747 |
| HCM Lane V/C Ratio | 0.136 | 0.246 | 0.101 | 0.147 |
| HCM Control Delay | 9.1 | 8.9 | 7.9 | 8.6 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.5 | 1 | 0.3 | 0.5 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 9.9 |
| Intersection LOS | A |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 21 | 177 | 1 | 24 | 137 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Future Vol, veh/h | 21 | 177 | 1 | 24 | 137 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 11 | 1 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 5 |
| Mvmt Flow | 24 | 199 | 1 | 27 | 154 | 101 | 0 | 1 | 21 | 83 | 3 | 25 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 10.5 | 9.3 | 8.4 | 10.3 |
| HCM LOS | B | A | A | B |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 75% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 22% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 1 | 19 | 21 | 177 | 1 | 24 | 137 | 90 | 99 |
| LT Vol | 0 | 0 | 21 | 0 | 0 | 24 | 0 | 0 | 74 |
| Through Vol | 1 | 0 | 0 | 177 | 0 | 0 | 137 | 0 | 3 |
| RT Vol | 0 | 19 | 0 | 0 | 1 | 0 | 0 | 90 | 22 |
| Lane Flow Rate | 1 | 21 | 24 | 199 | 1 | 27 | 154 | 101 | 111 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.002 | 0.033 | 0.041 | 0.305 | 0.001 | 0.044 | 0.236 | 0.134 | 0.188 |
| Departure Headway (Hd) | 6.195 | 5.494 | 6.187 | 5.513 | 4.792 | 5.925 | 5.524 | 4.786 | 6.083 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 581 | 656 | 575 | 646 | 739 | 600 | 645 | 742 | 585 |
| Service Time | 3.895 | 3.194 | 3.965 | 3.291 | 2.569 | 3.701 | 3.301 | 2.562 | 3.876 |
| HCM Lane V/C Ratio | 0.002 | 0.032 | 0.042 | 0.308 | 0.001 | 0.045 | 0.239 | 0.136 | 0.19 |
| HCM Control Delay | 8.9 | 8.4 | 9.2 | 10.7 | 7.6 | 9 | 10 | 8.3 | 10.3 |
| HCM Lane LOS | A | A | A | B | A | A | A | A | B |
| HCM 95th-tile Q | 0 | 0.1 | 0.1 | 1.3 | 0 | 0.1 | 0.9 | 0.5 | 0.7 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 11 | 442 | 24 | 226 | 765 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Future Volume (veh/h) | 11 | 442 | 24 | 226 | 765 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1870 | 1767 | 1900 | 1870 | 1900 | 1900 | 1900 | 1870 | 1885 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 12 | 475 | 26 | 243 | 823 | 69 | 38 | 11 | 143 | 85 | 23 | 32 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 2 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Cap, veh/h | 43 | 917 | 377 | 297 | 1321 | 111 | 164 | 359 | 299 | 128 | 322 | 268 |
| Arrive On Green | 0.02 | 0.26 | 0.26 | 0.16 | 0.40 | 0.40 | 0.09 | 0.19 | 0.19 | 0.07 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1810 | 3554 | 1462 | 1810 | 3319 | 278 | 1810 | 1900 | 1580 | 1795 | 1900 | 1583 |
| Grp Volume(v), veh/h | 12 | 475 | 26 | 243 | 441 | 451 | 38 | 11 | 143 | 85 | 23 | 32 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1777 | 1462 | 1810 | 1777 | 1820 | 1810 | 1900 | 1580 | 1795 | 1900 | 1583 |
| Q Serve(g_s), s | 0.4 | 7.6 | 0.9 | 8.7 | 13.2 | 13.3 | 1.3 | 0.3 | 5.4 | 3.1 | 0.7 | 1.1 |
| Cycle Q Clear(g_c), s | 0.4 | 7.6 | 0.9 | 8.7 | 13.2 | 13.3 | 1.3 | 0.3 | 5.4 | 3.1 | 0.7 | 1.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 43 | 917 | 377 | 297 | 707 | 725 | 164 | 359 | 299 | 128 | 322 | 268 |
| V/C Ratio(X) | 0.28 | 0.52 | 0.07 | 0.82 | 0.62 | 0.62 | 0.23 | 0.03 | 0.48 | 0.66 | 0.07 | 0.12 |
| Avail Cap(c_a), veh/h | 228 | 1608 | 661 | 878 | 1443 | 1477 | 363 | 939 | 781 | 387 | 968 | 806 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.0 | 21.2 | 18.7 | 26.9 | 16.1 | 16.1 | 28.2 | 22.1 | 24.1 | 30.2 | 23.3 | 23.5 |
| Incr Delay (d2), s/veh | 2.1 | 0.7 | 0.1 | 3.5 | 1.4 | 1.4 | 0.4 | 0.0 | 1.4 | 3.6 | 0.1 | 0.2 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 3.1 | 0.3 | 3.8 | 5.1 | 5.2 | 0.6 | 0.1 | 2.0 | 1.4 | 0.3 | 0.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 34.1 | 21.9 | 18.8 | 30.4 | 17.5 | 17.5 | 28.6 | 22.1 | 25.6 | 33.8 | 23.4 | 23.7 |
| LnGrp LOS | C | C | B | C | B | B | C | C | C | C | C | C |
| Approach Vol, veh/h | | 513 | | | 1135 | | | 192 | | | 140 | |
| Approach Delay, s/veh | | 22.1 | | | 20.3 | | | 26.0 | | | 29.8 | |
| Approach LOS | | C | | | C | | | C | | | C | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 15.6 | 23.2 | 10.7 | 17.3 | 6.2 | 32.6 | 9.4 | 18.6 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 11.0 | * 30 | 13.4 | * 34 | 8.4 | * 54 | 14.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 10.7 | 9.6 | 3.3 | 3.1 | 2.4 | 15.3 | 5.1 | 7.4 |
| Green Ext Time (p_c), s | 0.4 | 4.8 | 0.0 | 0.2 | 0.0 | 11.3 | 0.1 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 22.0 |
| HCM 6th LOS | C |

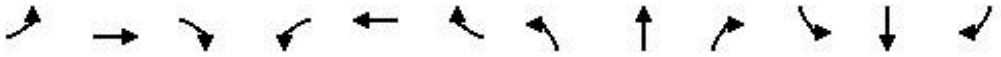
Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 872 | 9 | 13 | 1299 | 0 | 7 | 0 | 12 | 89 | 1 | 117 |
| Future Volume (vph) | 0 | 872 | 9 | 13 | 1299 | 0 | 7 | 0 | 12 | 89 | 1 | 117 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | 1.00 | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3533 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | 1863 | 1560 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3533 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | 1863 | 1560 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 0 | 948 | 10 | 14 | 1412 | 0 | 8 | 0 | 13 | 97 | 1 | 127 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 957 | 0 | 14 | 1412 | 0 | 8 | 0 | 2 | 97 | 1 | 127 |
| Confl. Peds. (#/hr) | | | 6 | 6 | | | | | | | | 10 |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | NA | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 37.4 | | 1.3 | 42.8 | | 8.1 | | 8.1 | 8.1 | 8.1 | 60.4 |
| Effective Green, g (s) | | 37.4 | | 1.3 | 42.8 | | 8.1 | | 8.1 | 8.1 | 8.1 | 60.4 |
| Actuated g/C Ratio | | 0.62 | | 0.02 | 0.71 | | 0.13 | | 0.13 | 0.13 | 0.13 | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | 4.1 | |
| Lane Grp Cap (vph) | | 2187 | | 38 | 2507 | | 189 | | 212 | 237 | 249 | 1560 |
| v/s Ratio Prot | | 0.27 | | 0.01 | c0.40 | | | | | | 0.00 | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.05 | | 0.08 |
| v/c Ratio | | 0.44 | | 0.37 | 0.56 | | 0.04 | | 0.01 | 0.41 | 0.00 | 0.08 |
| Uniform Delay, d1 | | 6.0 | | 29.1 | 4.3 | | 22.8 | | 22.7 | 24.0 | 22.7 | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | | 0.4 | | 3.9 | 0.6 | | 0.1 | | 0.0 | 1.7 | 0.0 | 0.1 |
| Delay (s) | | 6.4 | | 33.1 | 4.9 | | 22.9 | | 22.7 | 25.6 | 22.7 | 0.1 |
| Level of Service | | A | | C | A | | C | | C | C | C | A |
| Approach Delay (s) | | 6.4 | | | 5.2 | | | 22.8 | | | 11.2 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 6.3 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.59 | | |
| Actuated Cycle Length (s) | 60.4 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 55.4% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 64 | 569 | 0 | 0 | 1722 | 69 | 456 | 0 | 332 | 0 | 0 | 0 |
| Future Volume (vph) | 64 | 569 | 0 | 0 | 1722 | 69 | 456 | 0 | 332 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1719 | 1863 | | | 3540 | | 3502 | | 1583 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1719 | 1863 | | | 3540 | | 3502 | | 1583 | | | |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 69 | 612 | 0 | 0 | 1852 | 74 | 490 | 0 | 357 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 69 | 612 | 0 | 0 | 1926 | 0 | 490 | 0 | 357 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 8 | | 4 | 4 | | 8 | | | | | | |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Heavy Vehicles (%) | 5% | 2% | 0% | 0% | 1% | 8% | 0% | 0% | 2% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 5.3 | 66.9 | | | 54.5 | | 16.1 | | 92.9 | | | |
| Effective Green, g (s) | 5.3 | 66.9 | | | 54.5 | | 16.1 | | 92.9 | | | |
| Actuated g/C Ratio | 0.06 | 0.72 | | | 0.59 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 98 | 1341 | | | 2076 | | 606 | | 1583 | | | |
| v/s Ratio Prot | 0.04 | c0.33 | | | c0.54 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.14 | | 0.23 | | | |
| v/c Ratio | 0.70 | 0.46 | | | 0.93 | | 0.81 | | 0.23 | | | |
| Uniform Delay, d1 | 43.0 | 5.4 | | | 17.4 | | 36.9 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 19.1 | 0.7 | | | 8.4 | | 8.2 | | 0.3 | | | |
| Delay (s) | 62.1 | 6.1 | | | 25.9 | | 45.2 | | 0.3 | | | |
| Level of Service | E | A | | | C | | D | | A | | | |
| Approach Delay (s) | | 11.8 | | | 25.9 | | | 26.3 | | | 0.0 | |
| Approach LOS | | B | | | C | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 23.2 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.90 | | |
| Actuated Cycle Length (s) | 92.9 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 73.9% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

# Attachment D. Trip Generation

**AVEP SOLAR PROJECT**
**WORST-CASE CONSTRUCTION TRIPS**

| Chaparral Worst-Case Construction Trips (10/1/2021 to 1/1/2022) | | | | | | |
|---|---|---|---|---|---|---|
| **Phase** | **Start Date** | **End Date** | **Worker Vehicles (PCE=1.0)** | **Vendor Trucks (PCE=2.0)** | **Haul Deliveries (PCE=2.0)** | **Water Trucks (PCE=1.5)** |
| Substation Construction | 7/1/2021 | 3/1/2022 | 27 | 1 | 1 | 5 |
| Gen-tie Line Installation | 7/1/2021 | 1/1/2022 | 27 | 1 | 1 | 5 |
| Site Preparation and Grading | 8/1/2021 | 1/1/2022 | 27 | 5 | 0 | 50 |
| Underground work | 9/1/2021 | 3/1/2022 | 38 | 5 | 0 | 20 |
| System Installation | 10/1/2021 | 3/1/2022 | 381 | 5 | 0 | 20 |
| **Total** | | | **500** | **17** | **2** | **100** |

| Rabbitbrush Worst-Case Construction Trips (10/1/2021 to 1/1/2022) | | | | | | |
|---|---|---|---|---|---|---|
| **Phase** | **Start Date** | **End Date** | **Worker Vehicles (PCE=1.0)** | **Vendor Trucks (PCE=2.0)** | **Haul Deliveries (PCE=2.0)** | **Water Trucks (PCE=1.5)** |
| Site Preparation and Grading | 8/1/2021 | 1/1/2022 | 27 | 5 | 0 | 50 |
| Underground work | 9/1/2021 | 3/1/2022 | 38 | 5 | 0 | 20 |
| System Installation | 10/1/2021 | 3/1/2022 | 381 | 5 | 0 | 20 |
| **Total** | | | **446** | **15** | **0** | **90** |

Notes:
All trips shown are average daily trips (roundtrip).
PCE denotes Passenger Car Equivalent.

**AVEP SOLAR PROJECT**
**CONSTRUCTION TRIP GENERATION**

Daily Construction Time Period: 6:00 AM to 4:00 PM
Daily Construction Hours: 10

| Site | Trip Type | Daily | Without PCE | | | | | | PCE | With PCE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | AM | | | PM | | | | Daily | AM | | | PM | | |
| | | | In | Out | Total | In | Out | Total | | | In | Out | Total | In | Out | Total |
| Chaparral | Worker Vehicles | 1,000 | 500 | 0 | 500 | 0 | 500 | 500 | 1 | 1,000 | 500 | 0 | 500 | 0 | 500 | 500 |
| | Vendor Trucks | 34 | 2 | 1 | 3 | 1 | 2 | 3 | 2 | 68 | 3 | 3 | 6 | 3 | 3 | 6 |
| | Haul Trucks | 4 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 8 | 1 | 1 | 2 | 1 | 1 | 2 |
| | Water Trucks | 200 | 10 | 10 | 20 | 10 | 10 | 20 | 1.5 | 300 | 15 | 15 | 30 | 15 | 15 | 30 |
| | **Total** | **1,238** | **513** | **11** | **524** | **11** | **513** | **524** | | **1,376** | **519** | **19** | **538** | **19** | **519** | **538** |
| Rabbitbrush | Worker Vehicles | 892 | 446 | 0 | 446 | 0 | 446 | 446 | 1 | 892 | 446 | 0 | 446 | 0 | 446 | 446 |
| | Vendor Trucks | 30 | 2 | 1 | 3 | 1 | 2 | 3 | 2 | 60 | 3 | 3 | 6 | 3 | 3 | 6 |
| | Haul Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Water Trucks | 180 | 9 | 9 | 18 | 9 | 9 | 18 | 1.5 | 270 | 14 | 13 | 27 | 13 | 14 | 27 |
| | **Total** | **1,102** | **457** | **10** | **467** | **10** | **457** | **467** | | **1,222** | **463** | **16** | **479** | **16** | **463** | **479** |
| **TOTAL FOR BOTH SITES** | | **2,340** | **970** | **21** | **991** | **21** | **970** | **991** | | **2,598** | **982** | **35** | **1,017** | **35** | **982** | **1,017** |

# Attachment E. Construction Year (2021) Plus Rabbitbrush LOS Sheets

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 16.5 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 38 | 4 | 11 | 486 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Future Vol, veh/h | 1 | 38 | 4 | 11 | 486 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 0 | 20 | 0 | 0 | 33 | 9 | 33 | 26 | 0 | 4 | 21 | 0 |
| Mvmt Flow | 1 | 44 | 5 | 13 | 559 | 29 | 11 | 45 | 11 | 32 | 67 | 15 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 8.5 | 19.2 | 10 | 9.8 |
| HCM LOS | A | C | A | A |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 2% | 2% | 28% |
| Vol Thru, % | 66% | 88% | 93% | 59% |
| Vol Right, % | 17% | 9% | 5% | 13% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 59 | 43 | 522 | 99 |
| LT Vol | 10 | 1 | 11 | 28 |
| Through Vol | 39 | 38 | 486 | 58 |
| RT Vol | 10 | 4 | 25 | 13 |
| Lane Flow Rate | 68 | 49 | 600 | 114 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.114 | 0.069 | 0.742 | 0.175 |
| Departure Headway (Hd) | 6.073 | 5.043 | 4.451 | 5.551 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 585 | 703 | 810 | 640 |
| Service Time | 4.172 | 3.126 | 2.495 | 3.642 |
| HCM Lane V/C Ratio | 0.116 | 0.07 | 0.741 | 0.178 |
| HCM Control Delay | 10 | 8.5 | 19.2 | 9.8 |
| HCM Lane LOS | A | A | C | A |
| HCM 95th-tile Q | 0.4 | 0.2 | 6.8 | 0.6 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 141.8 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 41 | 105 | 0 | 10 | 556 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Future Vol, veh/h | 41 | 105 | 0 | 10 | 556 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles, % | 3 | 6 | 0 | 0 | 13 | 1 | 0 | 17 | 10 | 3 | 0 | 3 |
| Mvmt Flow | 58 | 148 | 0 | 14 | 783 | 339 | 0 | 10 | 15 | 297 | 10 | 45 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 15.6 | 199.8 | 12.7 | 37.5 |
| HCM LOS | C | F | B | E |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 84% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 7 | 11 | 41 | 105 | 0 | 10 | 556 | 241 | 250 |
| LT Vol | 0 | 0 | 41 | 0 | 0 | 10 | 0 | 0 | 211 |
| Through Vol | 7 | 0 | 0 | 105 | 0 | 0 | 556 | 0 | 7 |
| RT Vol | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 241 | 32 |
| Lane Flow Rate | 10 | 15 | 58 | 148 | 0 | 14 | 783 | 339 | 352 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.025 | 0.036 | 0.139 | 0.338 | 0 | 0.029 | 1.563 | 0.591 | 0.789 |
| Departure Headway (Hd) | 10.23 | 9.38 | 9.484 | 9.019 | 8.913 | 7.471 | 7.187 | 6.264 | 8.847 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 352 | 384 | 381 | 401 | 0 | 478 | 509 | 574 | 412 |
| Service Time | 7.93 | 7.08 | 7.184 | 6.719 | 6.613 | 5.238 | 4.953 | 4.03 | 6.547 |
| HCM Lane V/C Ratio | 0.028 | 0.039 | 0.152 | 0.369 | 0 | 0.029 | 1.538 | 0.591 | 0.854 |
| HCM Control Delay | 13.2 | 12.4 | 13.7 | 16.3 | 11.6 | 10.5 | 282.1 | 17.8 | 37.5 |
| HCM Lane LOS | B | B | B | C | N | B | F | C | E |
| HCM 95th-tile Q | 0.1 | 0.1 | 0.5 | 1.5 | 0 | 0.1 | 41.9 | 3.8 | 6.8 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 672 | 8 | 58 | 800 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Future Volume (veh/h) | 46 | 672 | 8 | 58 | 800 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.97 | 1.00 | | 0.99 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1885 | 1470 | 1900 | 1811 | 1900 | 1900 | 1856 | 1885 | 1870 | 1856 | 1767 |
| Adj Flow Rate, veh/h | 63 | 921 | 11 | 79 | 1096 | 41 | 14 | 56 | 438 | 258 | 58 | 67 |
| Peak Hour Factor | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Percent Heavy Veh, % | 0 | 1 | 29 | 0 | 6 | 0 | 0 | 3 | 1 | 2 | 3 | 9 |
| Cap, veh/h | 104 | 1203 | 417 | 110 | 1146 | 43 | 67 | 500 | 425 | 286 | 729 | 583 |
| Arrive On Green | 0.06 | 0.34 | 0.34 | 0.06 | 0.34 | 0.34 | 0.04 | 0.27 | 0.27 | 0.16 | 0.39 | 0.39 |
| Sat Flow, veh/h | 1810 | 3582 | 1240 | 1810 | 3379 | 126 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Grp Volume(v), veh/h | 63 | 921 | 11 | 79 | 558 | 579 | 14 | 56 | 438 | 258 | 58 | 67 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1791 | 1240 | 1810 | 1721 | 1784 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Q Serve(g_s), s | 4.2 | 28.1 | 0.7 | 5.3 | 38.8 | 38.9 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Cycle Q Clear(g_c), s | 4.2 | 28.1 | 0.7 | 5.3 | 38.8 | 38.9 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.07 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 104 | 1203 | 417 | 110 | 584 | 605 | 67 | 500 | 425 | 286 | 729 | 583 |
| V/C Ratio(X) | 0.60 | 0.77 | 0.03 | 0.72 | 0.96 | 0.96 | 0.21 | 0.11 | 1.03 | 0.90 | 0.08 | 0.11 |
| Avail Cap(c_a), veh/h | 146 | 1205 | 417 | 154 | 586 | 608 | 177 | 500 | 425 | 369 | 729 | 583 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 56.3 | 36.3 | 27.2 | 56.5 | 39.6 | 39.6 | 57.2 | 33.7 | 44.7 | 50.5 | 23.3 | 23.6 |
| Incr Delay (d2), s/veh | 3.4 | 3.3 | 0.0 | 6.2 | 26.8 | 26.2 | 0.9 | 0.1 | 51.9 | 19.2 | 0.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 12.8 | 0.2 | 2.6 | 20.5 | 21.2 | 0.4 | 1.3 | 18.9 | 9.3 | 1.1 | 1.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 59.7 | 39.6 | 27.3 | 62.7 | 66.3 | 65.8 | 58.1 | 33.8 | 96.7 | 69.7 | 23.4 | 23.7 |
| LnGrp LOS | E | D | C | E | E | E | E | C | F | E | C | C |
| Approach Vol, veh/h | | 995 | | | 1216 | | | 508 | | | 383 | |
| Approach Delay, s/veh | | 40.7 | | | 65.8 | | | 88.7 | | | 54.6 | |
| Approach LOS | | D | | | E | | | F | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.1 | 47.1 | 9.1 | 54.1 | 11.7 | 47.5 | 24.3 | 39.0 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 10.4 | * 41 | 12.0 | * 46 | 9.9 | * 42 | 25.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 7.3 | 30.1 | 2.9 | 5.5 | 6.2 | 40.9 | 19.4 | 35.0 |
| Green Ext Time (p_c), s | 0.0 | 6.3 | 0.0 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 60.1 |
| HCM 6th LOS | E |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1365 | 8 | 4 | 1024 | 0 | 11 | 0 | 8 | 49 | 0 | 199 |
| Future Volume (vph) | 0 | 1365 | 8 | 4 | 1024 | 0 | 11 | 0 | 8 | 49 | 0 | 199 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | | 1555 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | | 1555 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 0 | 1452 | 9 | 4 | 1089 | 0 | 12 | 0 | 9 | 52 | 0 | 212 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1461 | 0 | 4 | 1089 | 0 | 12 | 0 | 1 | 52 | 0 | 212 |
| Confl. Peds. (#/hr) | | | 5 | 5 | | | | | | | | 19 |
| Confl. Bikes (#/hr) | | | 1 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 44.8 | | 1.0 | 49.9 | | 5.3 | | 5.3 | 5.3 | | 64.7 |
| Effective Green, g (s) | | 44.8 | | 1.0 | 49.9 | | 5.3 | | 5.3 | 5.3 | | 64.7 |
| Actuated g/C Ratio | | 0.69 | | 0.02 | 0.77 | | 0.08 | | 0.08 | 0.08 | | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | | |
| Lane Grp Cap (vph) | | 2447 | | 27 | 2729 | | 115 | | 129 | 144 | | 1555 |
| v/s Ratio Prot | | c0.41 | | 0.00 | c0.31 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.03 | | 0.14 |
| v/c Ratio | | 0.60 | | 0.15 | 0.40 | | 0.10 | | 0.01 | 0.36 | | 0.14 |
| Uniform Delay, d1 | | 5.2 | | 31.4 | 2.4 | | 27.5 | | 27.3 | 28.1 | | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Incremental Delay, d2 | | 0.7 | | 1.7 | 0.3 | | 0.6 | | 0.0 | 2.2 | | 0.2 |
| Delay (s) | | 6.0 | | 33.1 | 2.7 | | 28.1 | | 27.3 | 30.3 | | 0.2 |
| Level of Service | | A | | C | A | | C | | C | C | | A |
| Approach Delay (s) | | 6.0 | | | 2.8 | | | 27.7 | | | 6.1 | |
| Approach LOS | | A | | | A | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 4.9 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.58 | | |
| Actuated Cycle Length (s) | 64.7 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 61.9% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 59 | 813 | 0 | 0 | 823 | 55 | 483 | 0 | 602 | 0 | 0 | 0 |
| Future Volume (vph) | 59 | 813 | 0 | 0 | 823 | 55 | 483 | 0 | 602 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 0.99 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 66 | 903 | 0 | 0 | 914 | 61 | 537 | 0 | 669 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 66 | 903 | 0 | 0 | 975 | 0 | 537 | 0 | 669 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 22 | | 6 | 6 | | 22 | | | 1 | 1 | | |
| Confl. Bikes (#/hr) | | | | | | 2 | | | | | | |
| Heavy Vehicles (%) | 8% | 3% | 0% | 0% | 4% | 0% | 8% | 0% | 3% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 4.7 | 42.4 | | | 30.6 | | 12.9 | | 65.2 | | | |
| Effective Green, g (s) | 4.7 | 42.4 | | | 30.6 | | 12.9 | | 65.2 | | | |
| Actuated g/C Ratio | 0.07 | 0.65 | | | 0.47 | | 0.20 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 120 | 1199 | | | 1612 | | 641 | | 1549 | | | |
| v/s Ratio Prot | 0.04 | c0.49 | | | 0.28 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.17 | | 0.43 | | | |
| v/c Ratio | 0.55 | 0.75 | | | 0.60 | | 0.84 | | 0.43 | | | |
| Uniform Delay, d1 | 29.2 | 7.8 | | | 12.8 | | 25.1 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 4.3 | 3.6 | | | 1.2 | | 9.7 | | 0.9 | | | |
| Delay (s) | 33.5 | 11.4 | | | 14.0 | | 34.9 | | 0.9 | | | |
| Level of Service | C | B | | | B | | C | | A | | | |
| Approach Delay (s) | | 12.9 | | | 14.0 | | | 16.0 | | | 0.0 | |
| Approach LOS | | B | | | B | | | B | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 14.4 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.89 | | |
| Actuated Cycle Length (s) | 65.2 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 64.3% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 55.3 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 39 | 531 | 42 | 7 | 37 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Future Vol, veh/h | 39 | 531 | 42 | 7 | 37 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles, % | 3 | 2 | 3 | 0 | 5 | 0 | 40 | 2 | 8 | 0 | 14 | 0 |
| Mvmt Flow | 52 | 708 | 56 | 9 | 49 | 45 | 8 | 67 | 19 | 52 | 52 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 72.2 | 9.4 | 11.6 | 11.1 |
| HCM LOS | F | A | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 9% | 6% | 9% | 46% |
| Vol Thru, % | 71% | 87% | 47% | 46% |
| Vol Right, % | 20% | 7% | 44% | 7% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 70 | 612 | 78 | 84 |
| LT Vol | 6 | 39 | 7 | 39 |
| Through Vol | 50 | 531 | 37 | 39 |
| RT Vol | 14 | 42 | 34 | 6 |
| Lane Flow Rate | 93 | 816 | 104 | 112 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.178 | 1.064 | 0.153 | 0.196 |
| Departure Headway (Hd) | 7.062 | 4.696 | 5.456 | 6.495 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 511 | 767 | 661 | 556 |
| Service Time | 5.062 | 2.789 | 3.456 | 4.495 |
| HCM Lane V/C Ratio | 0.182 | 1.064 | 0.157 | 0.201 |
| HCM Control Delay | 11.6 | 72.2 | 9.4 | 11.1 |
| HCM Lane LOS | B | F | A | B |
| HCM 95th-tile Q | 0.6 | 20.6 | 0.5 | 0.7 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 74.6 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 21 | 640 | 1 | 24 | 153 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Future Vol, veh/h | 21 | 640 | 1 | 24 | 153 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 11 | 1 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 5 |
| Mvmt Flow | 24 | 719 | 1 | 27 | 172 | 101 | 0 | 1 | 21 | 83 | 3 | 25 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 111.1 | 11.8 | 10.3 | 12.9 |
| HCM LOS | F | B | B | B |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 75% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 22% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 1 | 19 | 21 | 640 | 1 | 24 | 153 | 90 | 99 |
| LT Vol | 0 | 0 | 21 | 0 | 0 | 24 | 0 | 0 | 74 |
| Through Vol | 1 | 0 | 0 | 640 | 0 | 0 | 153 | 0 | 3 |
| RT Vol | 0 | 19 | 0 | 0 | 1 | 0 | 0 | 90 | 22 |
| Lane Flow Rate | 1 | 21 | 24 | 719 | 1 | 27 | 172 | 101 | 111 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.002 | 0.041 | 0.043 | 1.171 | 0.002 | 0.052 | 0.315 | 0.165 | 0.231 |
| Departure Headway (Hd) | 8.042 | 7.334 | 6.535 | 5.86 | 5.137 | 7.398 | 6.996 | 6.253 | 7.882 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 448 | 491 | 551 | 626 | 701 | 487 | 517 | 577 | 458 |
| Service Time | 5.742 | 5.034 | 4.235 | 3.56 | 2.837 | 5.098 | 4.696 | 3.953 | 5.582 |
| HCM Lane V/C Ratio | 0.002 | 0.043 | 0.044 | 1.149 | 0.001 | 0.055 | 0.333 | 0.175 | 0.242 |
| HCM Control Delay | 10.8 | 10.3 | 9.5 | 114.6 | 7.8 | 10.5 | 12.9 | 10.2 | 12.9 |
| HCM Lane LOS | B | B | A | F | A | B | B | B | B |
| HCM 95th-tile Q | 0 | 0.1 | 0.1 | 24.3 | 0 | 0.2 | 1.3 | 0.6 | 0.9 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 11 | 905 | 24 | 226 | 781 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Future Volume (veh/h) | 11 | 905 | 24 | 226 | 781 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1870 | 1767 | 1900 | 1870 | 1900 | 1900 | 1900 | 1870 | 1885 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 12 | 973 | 26 | 243 | 840 | 69 | 38 | 11 | 143 | 85 | 23 | 32 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 2 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Cap, veh/h | 42 | 1221 | 503 | 290 | 1596 | 131 | 156 | 309 | 257 | 115 | 268 | 223 |
| Arrive On Green | 0.02 | 0.34 | 0.34 | 0.16 | 0.48 | 0.48 | 0.09 | 0.16 | 0.16 | 0.06 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1810 | 3554 | 1463 | 1810 | 3325 | 273 | 1810 | 1900 | 1579 | 1795 | 1900 | 1582 |
| Grp Volume(v), veh/h | 12 | 973 | 26 | 243 | 449 | 460 | 38 | 11 | 143 | 85 | 23 | 32 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1777 | 1463 | 1810 | 1777 | 1821 | 1810 | 1900 | 1579 | 1795 | 1900 | 1582 |
| Q Serve(g_s), s | 0.5 | 19.5 | 0.9 | 10.3 | 13.8 | 13.8 | 1.5 | 0.4 | 6.6 | 3.7 | 0.8 | 1.4 |
| Cycle Q Clear(g_c), s | 0.5 | 19.5 | 0.9 | 10.3 | 13.8 | 13.8 | 1.5 | 0.4 | 6.6 | 3.7 | 0.8 | 1.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 42 | 1221 | 503 | 290 | 853 | 874 | 156 | 309 | 257 | 115 | 268 | 223 |
| V/C Ratio(X) | 0.28 | 0.80 | 0.05 | 0.84 | 0.53 | 0.53 | 0.24 | 0.04 | 0.56 | 0.74 | 0.09 | 0.14 |
| Avail Cap(c_a), veh/h | 193 | 1363 | 561 | 745 | 1223 | 1253 | 308 | 796 | 662 | 328 | 820 | 683 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 37.8 | 23.4 | 17.3 | 32.1 | 14.2 | 14.2 | 33.6 | 27.8 | 30.3 | 36.2 | 29.4 | 29.6 |
| Incr Delay (d2), s/veh | 2.2 | 3.5 | 0.1 | 4.0 | 0.8 | 0.8 | 0.5 | 0.1 | 2.3 | 5.5 | 0.2 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.2 | 8.3 | 0.3 | 4.7 | 5.3 | 5.4 | 0.7 | 0.2 | 2.6 | 1.7 | 0.4 | 0.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 40.0 | 26.8 | 17.3 | 36.1 | 15.0 | 15.0 | 34.1 | 27.8 | 32.6 | 41.7 | 29.6 | 30.0 |
| LnGrp LOS | D | C | B | D | B | B | C | C | C | D | C | C |
| Approach Vol, veh/h | | 1011 | | | 1152 | | | 192 | | | 140 | |
| Approach Delay, s/veh | | 26.8 | | | 19.5 | | | 32.6 | | | 37.0 | |
| Approach LOS | | C | | | B | | | C | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.2 | 33.0 | 11.4 | 17.1 | 6.4 | 43.8 | 9.7 | 18.8 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 8.6 | * 30 | 13.4 | * 34 | 8.4 | * 54 | 14.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 12.8 | 21.5 | 3.5 | 3.4 | 2.5 | 15.8 | 5.7 | 8.6 |
| Green Ext Time (p_c), s | 0.4 | 5.6 | 0.0 | 0.2 | 0.0 | 11.6 | 0.1 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 24.4 |
| HCM 6th LOS | C |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1335 | 9 | 13 | 1310 | 0 | 7 | 0 | 12 | 89 | 1 | 122 |
| Future Volume (vph) | 0 | 1335 | 9 | 13 | 1310 | 0 | 7 | 0 | 12 | 89 | 1 | 122 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | 1.00 | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | 1863 | 1560 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | 1863 | 1560 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 0 | 1451 | 10 | 14 | 1424 | 0 | 8 | 0 | 13 | 97 | 1 | 133 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1461 | 0 | 14 | 1424 | 0 | 8 | 0 | 2 | 97 | 1 | 133 |
| Confl. Peds. (#/hr) | | | 6 | 6 | | | | | | | | 10 |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | NA | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 42.5 | | 1.1 | 47.7 | | 8.6 | | 8.6 | 8.6 | 8.6 | 65.8 |
| Effective Green, g (s) | | 42.5 | | 1.1 | 47.7 | | 8.6 | | 8.6 | 8.6 | 8.6 | 65.8 |
| Actuated g/C Ratio | | 0.65 | | 0.02 | 0.72 | | 0.13 | | 0.13 | 0.13 | 0.13 | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | 4.1 | |
| Lane Grp Cap (vph) | | 2283 | | 29 | 2565 | | 184 | | 206 | 231 | 243 | 1560 |
| v/s Ratio Prot | | c0.41 | | 0.01 | c0.40 | | | | | | 0.00 | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.05 | | 0.09 |
| v/c Ratio | | 0.64 | | 0.48 | 0.56 | | 0.04 | | 0.01 | 0.42 | 0.00 | 0.09 |
| Uniform Delay, d1 | | 7.0 | | 32.1 | 4.2 | | 25.0 | | 24.9 | 26.3 | 24.9 | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | | 1.0 | | 8.1 | 0.6 | | 0.1 | | 0.0 | 1.8 | 0.0 | 0.1 |
| Delay (s) | | 8.0 | | 40.1 | 4.7 | | 25.1 | | 24.9 | 28.1 | 24.9 | 0.1 |
| Level of Service | | A | | D | A | | C | | C | C | C | A |
| Approach Delay (s) | | 8.0 | | | 5.1 | | | 25.0 | | | 12.0 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 7.1 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.62 | | |
| Actuated Cycle Length (s) | 65.8 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 61.1% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 217 | 569 | 0 | 0 | 1722 | 69 | 467 | 0 | 332 | 0 | 0 | 0 |
| Future Volume (vph) | 217 | 569 | 0 | 0 | 1722 | 69 | 467 | 0 | 332 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 233 | 612 | 0 | 0 | 1852 | 74 | 502 | 0 | 357 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 233 | 612 | 0 | 0 | 1926 | 0 | 502 | 0 | 357 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 8 | | 4 | 4 | | 8 | | | | | | |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Heavy Vehicles (%) | 5% | 2% | 0% | 0% | 1% | 8% | 0% | 0% | 2% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 7.0 | 70.6 | | | 56.5 | | 16.3 | | 96.8 | | | |
| Effective Green, g (s) | 7.0 | 70.6 | | | 56.5 | | 16.3 | | 96.8 | | | |
| Actuated g/C Ratio | 0.07 | 0.73 | | | 0.58 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 124 | 1358 | | | 2065 | | 589 | | 1583 | | | |
| v/s Ratio Prot | c0.14 | 0.33 | | | c0.54 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.14 | | 0.23 | | | |
| v/c Ratio | 1.88 | 0.45 | | | 0.93 | | 0.85 | | 0.23 | | | |
| Uniform Delay, d1 | 44.9 | 5.3 | | | 18.4 | | 39.1 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 424.5 | 0.7 | | | 9.0 | | 11.8 | | 0.3 | | | |
| Delay (s) | 469.4 | 6.0 | | | 27.4 | | 50.9 | | 0.3 | | | |
| Level of Service | F | A | | | C | | D | | A | | | |
| Approach Delay (s) | | 133.8 | | | 27.4 | | | 29.9 | | | 0.0 | |
| Approach LOS | | F | | | C | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 52.7 | HCM 2000 Level of Service | D |
| HCM 2000 Volume to Capacity ratio | 1.00 | | |
| Actuated Cycle Length (s) | 96.8 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 88.8% | ICU Level of Service | E |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

# Attachment F. Construction Year (2021) Plus Chaparral LOS Sheets

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 21 |
| Intersection LOS | C |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 41 | 4 | 11 | 542 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Future Vol, veh/h | 1 | 41 | 4 | 11 | 542 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 0 | 20 | 0 | 0 | 33 | 9 | 33 | 26 | 0 | 4 | 21 | 0 |
| Mvmt Flow | 1 | 47 | 5 | 13 | 623 | 29 | 11 | 45 | 11 | 32 | 67 | 15 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 8.7 | 25 | 10.2 | 10.1 |
| HCM LOS | A | C | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 2% | 2% | 28% |
| Vol Thru, % | 66% | 89% | 94% | 59% |
| Vol Right, % | 17% | 9% | 4% | 13% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 59 | 46 | 578 | 99 |
| LT Vol | 10 | 1 | 11 | 28 |
| Through Vol | 39 | 41 | 542 | 58 |
| RT Vol | 10 | 4 | 25 | 13 |
| Lane Flow Rate | 68 | 53 | 664 | 114 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.12 | 0.077 | 0.825 | 0.184 |
| Departure Headway (Hd) | 6.356 | 5.234 | 4.469 | 5.819 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 567 | 687 | 804 | 620 |
| Service Time | 4.363 | 3.246 | 2.534 | 3.825 |
| HCM Lane V/C Ratio | 0.12 | 0.077 | 0.826 | 0.184 |
| HCM Control Delay | 10.2 | 8.7 | 25 | 10.1 |
| HCM Lane LOS | B | A | C | B |
| HCM 95th-tile Q | 0.4 | 0.2 | 9.2 | 0.7 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 181.8 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 41 | 108 | 0 | 10 | 612 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Future Vol, veh/h | 41 | 108 | 0 | 10 | 612 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles, % | 3 | 6 | 0 | 0 | 13 | 1 | 0 | 17 | 10 | 3 | 0 | 3 |
| Mvmt Flow | 58 | 152 | 0 | 14 | 862 | 339 | 0 | 10 | 15 | 297 | 10 | 45 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 15.9 | 255.5 | 13 | 38.4 |
| HCM LOS | C | F | B | E |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 84% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 7 | 11 | 41 | 108 | 0 | 10 | 612 | 241 | 250 |
| LT Vol | 0 | 0 | 41 | 0 | 0 | 10 | 0 | 0 | 211 |
| Through Vol | 7 | 0 | 0 | 108 | 0 | 0 | 612 | 0 | 7 |
| RT Vol | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 241 | 32 |
| Lane Flow Rate | 10 | 15 | 58 | 152 | 0 | 14 | 862 | 339 | 352 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.025 | 0.036 | 0.139 | 0.348 | 0 | 0.029 | 1.726 | 0.593 | 0.791 |
| Departure Headway (Hd) | 10.464 | 9.613 | 9.657 | 9.191 | 9.085 | 7.492 | 7.207 | 6.285 | 9.049 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 344 | 375 | 374 | 394 | 0 | 477 | 509 | 574 | 401 |
| Service Time | 8.164 | 7.313 | 7.357 | 6.891 | 6.785 | 5.257 | 4.972 | 4.049 | 6.749 |
| HCM Lane V/C Ratio | 0.029 | 0.04 | 0.155 | 0.386 | 0 | 0.029 | 1.694 | 0.591 | 0.878 |
| HCM Control Delay | 13.4 | 12.7 | 13.9 | 16.7 | 11.8 | 10.5 | 353.1 | 17.9 | 38.4 |
| HCM Lane LOS | B | B | B | C | N | B | F | C | E |
| HCM 95th-tile Q | 0.1 | 0.1 | 0.5 | 1.5 | 0 | 0.1 | 51.2 | 3.9 | 6.8 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 675 | 8 | 58 | 856 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Future Volume (veh/h) | 46 | 675 | 8 | 58 | 856 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.97 | 1.00 | | 0.99 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1885 | 1470 | 1900 | 1811 | 1900 | 1900 | 1856 | 1885 | 1870 | 1856 | 1767 |
| Adj Flow Rate, veh/h | 63 | 925 | 11 | 79 | 1173 | 41 | 14 | 56 | 438 | 258 | 58 | 67 |
| Peak Hour Factor | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Percent Heavy Veh, % | 0 | 1 | 29 | 0 | 6 | 0 | 0 | 3 | 1 | 2 | 3 | 9 |
| Cap, veh/h | 104 | 1206 | 418 | 110 | 1152 | 40 | 67 | 499 | 424 | 286 | 728 | 582 |
| Arrive On Green | 0.06 | 0.34 | 0.34 | 0.06 | 0.34 | 0.34 | 0.04 | 0.27 | 0.27 | 0.16 | 0.39 | 0.39 |
| Sat Flow, veh/h | 1810 | 3582 | 1240 | 1810 | 3388 | 118 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Grp Volume(v), veh/h | 63 | 925 | 11 | 79 | 595 | 619 | 14 | 56 | 438 | 258 | 58 | 67 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1791 | 1240 | 1810 | 1721 | 1786 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Q Serve(g_s), s | 4.2 | 28.3 | 0.7 | 5.3 | 41.7 | 41.7 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Cycle Q Clear(g_c), s | 4.2 | 28.3 | 0.7 | 5.3 | 41.7 | 41.7 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.07 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 104 | 1206 | 418 | 110 | 585 | 607 | 67 | 499 | 424 | 286 | 728 | 582 |
| V/C Ratio(X) | 0.60 | 0.77 | 0.03 | 0.72 | 1.02 | 1.02 | 0.21 | 0.11 | 1.03 | 0.90 | 0.08 | 0.12 |
| Avail Cap(c_a), veh/h | 146 | 1206 | 418 | 153 | 585 | 607 | 177 | 499 | 424 | 369 | 728 | 582 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 56.4 | 36.4 | 27.2 | 56.6 | 40.5 | 40.5 | 57.3 | 33.8 | 44.8 | 50.5 | 23.4 | 23.7 |
| Incr Delay (d2), s/veh | 3.4 | 3.3 | 0.0 | 6.3 | 41.8 | 41.3 | 0.9 | 0.1 | 52.4 | 19.3 | 0.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 12.8 | 0.2 | 2.6 | 24.2 | 25.0 | 0.4 | 1.3 | 18.9 | 9.3 | 1.1 | 1.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 59.8 | 39.7 | 27.3 | 62.8 | 82.3 | 81.8 | 58.2 | 33.9 | 97.2 | 69.8 | 23.4 | 23.8 |
| LnGrp LOS | E | D | C | E | F | F | E | C | F | E | C | C |
| Approach Vol, veh/h | | 999 | | | 1293 | | | 508 | | | 383 | |
| Approach Delay, s/veh | | 40.8 | | | 80.9 | | | 89.2 | | | 54.8 | |
| Approach LOS | | D | | | F | | | F | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.1 | 47.3 | 9.2 | 54.1 | 11.7 | 47.7 | 24.3 | 39.0 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 10.4 | * 41 | 12.0 | * 46 | 9.9 | * 42 | 25.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 7.3 | 30.3 | 2.9 | 5.5 | 6.2 | 43.7 | 19.4 | 35.0 |
| Green Ext Time (p_c), s | 0.0 | 6.3 | 0.0 | 0.7 | 0.0 | 0.0 | 0.3 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 66.5 |
| HCM 6th LOS | E |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1368 | 8 | 4 | 1062 | 0 | 11 | 0 | 8 | 49 | 0 | 217 |
| Future Volume (vph) | 0 | 1368 | 8 | 4 | 1062 | 0 | 11 | 0 | 8 | 49 | 0 | 217 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | | 1555 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | | 1555 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 0 | 1455 | 9 | 4 | 1130 | 0 | 12 | 0 | 9 | 52 | 0 | 231 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1464 | 0 | 4 | 1130 | 0 | 12 | 0 | 1 | 52 | 0 | 231 |
| Confl. Peds. (#/hr) | | | 5 | 5 | | | | | | | | 19 |
| Confl. Bikes (#/hr) | | | 1 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 44.9 | | 1.0 | 50.0 | | 5.3 | | 5.3 | 5.3 | | 64.8 |
| Effective Green, g (s) | | 44.9 | | 1.0 | 50.0 | | 5.3 | | 5.3 | 5.3 | | 64.8 |
| Actuated g/C Ratio | | 0.69 | | 0.02 | 0.77 | | 0.08 | | 0.08 | 0.08 | | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | | |
| Lane Grp Cap (vph) | | 2449 | | 27 | 2730 | | 115 | | 129 | 144 | | 1555 |
| v/s Ratio Prot | | c0.41 | | 0.00 | c0.32 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.03 | | 0.15 |
| v/c Ratio | | 0.60 | | 0.15 | 0.41 | | 0.10 | | 0.01 | 0.36 | | 0.15 |
| Uniform Delay, d1 | | 5.2 | | 31.5 | 2.5 | | 27.6 | | 27.3 | 28.1 | | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Incremental Delay, d2 | | 0.7 | | 1.7 | 0.3 | | 0.6 | | 0.0 | 2.2 | | 0.2 |
| Delay (s) | | 6.0 | | 33.1 | 2.8 | | 28.1 | | 27.4 | 30.4 | | 0.2 |
| Level of Service | | A | | C | A | | C | | C | C | | A |
| Approach Delay (s) | | 6.0 | | | 2.9 | | | 27.8 | | | 5.7 | |
| Approach LOS | | A | | | A | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 4.9 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.58 | | |
| Actuated Cycle Length (s) | 64.8 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 62.0% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 60 | 813 | 0 | 0 | 823 | 55 | 521 | 0 | 602 | 0 | 0 | 0 |
| Future Volume (vph) | 60 | 813 | 0 | 0 | 823 | 55 | 521 | 0 | 602 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 0.99 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 67 | 903 | 0 | 0 | 914 | 61 | 579 | 0 | 669 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 67 | 903 | 0 | 0 | 975 | 0 | 579 | 0 | 669 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 22 | | 6 | 6 | | 22 | | | 1 | 1 | | |
| Confl. Bikes (#/hr) | | | | | | 2 | | | | | | |
| Heavy Vehicles (%) | 8% | 3% | 0% | 0% | 4% | 0% | 8% | 0% | 3% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 4.7 | 42.4 | | | 30.6 | | 12.9 | | 65.2 | | | |
| Effective Green, g (s) | 4.7 | 42.4 | | | 30.6 | | 12.9 | | 65.2 | | | |
| Actuated g/C Ratio | 0.07 | 0.65 | | | 0.47 | | 0.20 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 120 | 1199 | | | 1612 | | 641 | | 1549 | | | |
| v/s Ratio Prot | 0.04 | c0.49 | | | 0.28 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.18 | | 0.43 | | | |
| v/c Ratio | 0.56 | 0.75 | | | 0.60 | | 0.90 | | 0.43 | | | |
| Uniform Delay, d1 | 29.2 | 7.8 | | | 12.8 | | 25.5 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 4.5 | 3.6 | | | 1.2 | | 16.4 | | 0.9 | | | |
| Delay (s) | 33.7 | 11.4 | | | 14.0 | | 41.9 | | 0.9 | | | |
| Level of Service | C | B | | | B | | D | | A | | | |
| Approach Delay (s) | | 13.0 | | | 14.0 | | | 19.9 | | | 0.0 | |
| Approach LOS | | B | | | B | | | B | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 16.0 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.90 | | |
| Actuated Cycle Length (s) | 65.2 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 65.4% | ICU Level of Service | C |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 83 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 39 | 587 | 42 | 7 | 40 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Future Vol, veh/h | 39 | 587 | 42 | 7 | 40 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles, % | 3 | 2 | 3 | 0 | 5 | 0 | 40 | 2 | 8 | 0 | 14 | 0 |
| Mvmt Flow | 52 | 783 | 56 | 9 | 53 | 45 | 8 | 67 | 19 | 52 | 52 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 108.4 | 9.6 | 11.8 | 11.3 |
| HCM LOS | F | A | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 9% | 6% | 9% | 46% |
| Vol Thru, % | 71% | 88% | 49% | 46% |
| Vol Right, % | 20% | 6% | 42% | 7% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 70 | 668 | 81 | 84 |
| LT Vol | 6 | 39 | 7 | 39 |
| Through Vol | 50 | 587 | 40 | 39 |
| RT Vol | 14 | 42 | 34 | 6 |
| Lane Flow Rate | 93 | 891 | 108 | 112 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.176 | 1.168 | 0.158 | 0.194 |
| Departure Headway (Hd) | 7.272 | 4.719 | 5.562 | 6.702 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 497 | 766 | 649 | 539 |
| Service Time | 5.272 | 2.789 | 3.562 | 4.702 |
| HCM Lane V/C Ratio | 0.187 | 1.163 | 0.166 | 0.208 |
| HCM Control Delay | 11.8 | 108.4 | 9.6 | 11.3 |
| HCM Lane LOS | B | F | A | B |
| HCM 95th-tile Q | 0.6 | 27.7 | 0.6 | 0.7 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 102.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 21 | 696 | 1 | 24 | 156 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Future Vol, veh/h | 21 | 696 | 1 | 24 | 156 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 11 | 1 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 5 |
| Mvmt Flow | 24 | 782 | 1 | 27 | 175 | 101 | 0 | 1 | 21 | 83 | 3 | 25 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 150.8 | 12 | 10.6 | 13.2 |
| HCM LOS | F | B | B | B |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 75% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 22% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 1 | 19 | 21 | 696 | 1 | 24 | 156 | 90 | 99 |
| LT Vol | 0 | 0 | 21 | 0 | 0 | 24 | 0 | 0 | 74 |
| Through Vol | 1 | 0 | 0 | 696 | 0 | 0 | 156 | 0 | 3 |
| RT Vol | 0 | 19 | 0 | 0 | 1 | 0 | 0 | 90 | 22 |
| Lane Flow Rate | 1 | 21 | 24 | 782 | 1 | 27 | 175 | 101 | 111 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.002 | 0.041 | 0.043 | 1.275 | 0.002 | 0.052 | 0.322 | 0.165 | 0.231 |
| Departure Headway (Hd) | 8.242 | 7.533 | 6.545 | 5.869 | 5.147 | 7.552 | 7.149 | 6.406 | 8.071 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 437 | 478 | 550 | 626 | 699 | 477 | 507 | 563 | 447 |
| Service Time | 5.942 | 5.233 | 4.245 | 3.569 | 2.847 | 5.252 | 4.849 | 4.106 | 5.771 |
| HCM Lane V/C Ratio | 0.002 | 0.044 | 0.044 | 1.249 | 0.001 | 0.057 | 0.345 | 0.179 | 0.248 |
| HCM Control Delay | 11 | 10.6 | 9.5 | 155.3 | 7.9 | 10.7 | 13.2 | 10.4 | 13.2 |
| HCM Lane LOS | B | B | A | F | A | B | B | B | B |
| HCM 95th-tile Q | 0 | 0.1 | 0.1 | 30.7 | 0 | 0.2 | 1.4 | 0.6 | 0.9 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 11 | 961 | 24 | 226 | 784 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Future Volume (veh/h) | 11 | 961 | 24 | 226 | 784 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1870 | 1767 | 1900 | 1870 | 1900 | 1900 | 1900 | 1870 | 1885 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 12 | 1033 | 26 | 243 | 843 | 69 | 38 | 11 | 143 | 85 | 23 | 32 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 2 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Cap, veh/h | 42 | 1247 | 514 | 289 | 1621 | 133 | 155 | 305 | 253 | 114 | 263 | 219 |
| Arrive On Green | 0.02 | 0.35 | 0.35 | 0.16 | 0.49 | 0.49 | 0.09 | 0.16 | 0.16 | 0.06 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1810 | 3554 | 1464 | 1810 | 3326 | 272 | 1810 | 1900 | 1579 | 1795 | 1900 | 1581 |
| Grp Volume(v), veh/h | 12 | 1033 | 26 | 243 | 450 | 462 | 38 | 11 | 143 | 85 | 23 | 32 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1777 | 1464 | 1810 | 1777 | 1821 | 1810 | 1900 | 1579 | 1795 | 1900 | 1581 |
| Q Serve(g_s), s | 0.5 | 21.3 | 0.9 | 10.4 | 13.9 | 13.9 | 1.6 | 0.4 | 6.7 | 3.7 | 0.8 | 1.4 |
| Cycle Q Clear(g_c), s | 0.5 | 21.3 | 0.9 | 10.4 | 13.9 | 13.9 | 1.6 | 0.4 | 6.7 | 3.7 | 0.8 | 1.4 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 42 | 1247 | 514 | 289 | 866 | 887 | 155 | 305 | 253 | 114 | 263 | 219 |
| V/C Ratio(X) | 0.28 | 0.83 | 0.05 | 0.84 | 0.52 | 0.52 | 0.25 | 0.04 | 0.56 | 0.74 | 0.09 | 0.15 |
| Avail Cap(c_a), veh/h | 190 | 1342 | 553 | 733 | 1204 | 1234 | 303 | 784 | 652 | 323 | 808 | 672 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 38.4 | 23.7 | 17.1 | 32.6 | 14.1 | 14.1 | 34.2 | 28.3 | 31.0 | 36.8 | 30.0 | 30.3 |
| Incr Delay (d2), s/veh | 2.2 | 4.6 | 0.1 | 4.1 | 0.8 | 0.8 | 0.5 | 0.1 | 2.4 | 5.7 | 0.2 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 9.2 | 0.3 | 4.8 | 5.3 | 5.5 | 0.7 | 0.2 | 2.6 | 1.8 | 0.4 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 40.6 | 28.3 | 17.2 | 36.7 | 14.8 | 14.8 | 34.7 | 28.4 | 33.4 | 42.5 | 30.2 | 30.6 |
| LnGrp LOS | D | C | B | D | B | B | C | C | C | D | C | C |
| Approach Vol, veh/h | | 1071 | | | 1155 | | | 192 | | | 140 | |
| Approach Delay, s/veh | | 28.2 | | | 19.4 | | | 33.3 | | | 37.8 | |
| Approach LOS | | C | | | B | | | C | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.4 | 34.1 | 11.4 | 17.1 | 6.5 | 45.0 | 9.7 | 18.8 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 8.4 | * 30 | 13.4 | * 34 | 8.4 | * 54 | 14.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 12.1 | 23.3 | 3.6 | 3.4 | 2.5 | 15.9 | 5.7 | 8.7 |
| Green Ext Time (p_c), s | 0.4 | 4.8 | 0.0 | 0.2 | 0.0 | 11.6 | 0.1 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 25.2 |
| HCM 6th LOS | C |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1391 | 9 | 13 | 1312 | 0 | 7 | 0 | 12 | 89 | 1 | 123 |
| Future Volume (vph) | 0 | 1391 | 9 | 13 | 1312 | 0 | 7 | 0 | 12 | 89 | 1 | 123 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | 1.00 | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | 1863 | 1560 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | 1863 | 1560 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 0 | 1512 | 10 | 14 | 1426 | 0 | 8 | 0 | 13 | 97 | 1 | 134 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1522 | 0 | 14 | 1426 | 0 | 8 | 0 | 2 | 97 | 1 | 134 |
| Confl. Peds. (#/hr) | | | 6 | 6 | | | | | | | | 10 |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | NA | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 43.7 | | 1.1 | 48.9 | | 8.6 | | 8.6 | 8.6 | 8.6 | 67.0 |
| Effective Green, g (s) | | 43.7 | | 1.1 | 48.9 | | 8.6 | | 8.6 | 8.6 | 8.6 | 67.0 |
| Actuated g/C Ratio | | 0.65 | | 0.02 | 0.73 | | 0.13 | | 0.13 | 0.13 | 0.13 | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | 4.1 | |
| Lane Grp Cap (vph) | | 2305 | | 29 | 2582 | | 180 | | 203 | 227 | 239 | 1560 |
| v/s Ratio Prot | | c0.43 | | 0.01 | c0.40 | | | | | | 0.00 | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.05 | | 0.09 |
| v/c Ratio | | 0.66 | | 0.48 | 0.55 | | 0.04 | | 0.01 | 0.43 | 0.00 | 0.09 |
| Uniform Delay, d1 | | 7.1 | | 32.7 | 4.1 | | 25.6 | | 25.5 | 26.9 | 25.5 | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | | 1.2 | | 8.1 | 0.6 | | 0.1 | | 0.0 | 1.9 | 0.0 | 0.1 |
| Delay (s) | | 8.3 | | 40.7 | 4.7 | | 25.7 | | 25.5 | 28.8 | 25.5 | 0.1 |
| Level of Service | | A | | D | A | | C | | C | C | C | A |
| Approach Delay (s) | | 8.3 | | | 5.0 | | | 25.6 | | | 12.2 | |
| Approach LOS | | A | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 7.2 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.64 | | |
| Actuated Cycle Length (s) | 67.0 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 62.7% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 235 | 569 | 0 | 0 | 1722 | 69 | 469 | 0 | 332 | 0 | 0 | 0 |
| Future Volume (vph) | 235 | 569 | 0 | 0 | 1722 | 69 | 469 | 0 | 332 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 253 | 612 | 0 | 0 | 1852 | 74 | 504 | 0 | 357 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 253 | 612 | 0 | 0 | 1926 | 0 | 504 | 0 | 357 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 8 | | 4 | 4 | | 8 | | | | | | |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Heavy Vehicles (%) | 5% | 2% | 0% | 0% | 1% | 8% | 0% | 0% | 2% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 7.0 | 70.6 | | | 56.5 | | 16.3 | | 96.8 | | | |
| Effective Green, g (s) | 7.0 | 70.6 | | | 56.5 | | 16.3 | | 96.8 | | | |
| Actuated g/C Ratio | 0.07 | 0.73 | | | 0.58 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 124 | 1358 | | | 2065 | | 589 | | 1583 | | | |
| v/s Ratio Prot | c0.15 | 0.33 | | | c0.54 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.14 | | 0.23 | | | |
| v/c Ratio | 2.04 | 0.45 | | | 0.93 | | 0.86 | | 0.23 | | | |
| Uniform Delay, d1 | 44.9 | 5.3 | | | 18.4 | | 39.1 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 495.1 | 0.7 | | | 9.0 | | 12.1 | | 0.3 | | | |
| Delay (s) | 540.0 | 6.0 | | | 27.4 | | 51.2 | | 0.3 | | | |
| Level of Service | F | A | | | C | | D | | A | | | |
| Approach Delay (s) | | 162.2 | | | 27.4 | | | 30.1 | | | 0.0 | |
| Approach LOS | | F | | | C | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 59.9 | HCM 2000 Level of Service | E |
| HCM 2000 Volume to Capacity ratio | 1.01 | | |
| Actuated Cycle Length (s) | 96.8 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 89.9% | ICU Level of Service | E |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

# Attachment G. Construction Year (2021) Plus Project (Both Facilities) LOS Sheets

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 212.7 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 1 | 57 | 4 | 11 | 1005 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Future Vol, veh/h | 1 | 57 | 4 | 11 | 1005 | 25 | 10 | 39 | 10 | 28 | 58 | 13 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 0 | 20 | 0 | 0 | 33 | 9 | 33 | 26 | 0 | 4 | 21 | 0 |
| Mvmt Flow | 1 | 66 | 5 | 13 | 1155 | 29 | 11 | 45 | 11 | 32 | 67 | 15 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 9.7 | 255.2 | 11.9 | 12 |
| HCM LOS | A | F | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 17% | 2% | 1% | 28% |
| Vol Thru, % | 66% | 92% | 97% | 59% |
| Vol Right, % | 17% | 6% | 2% | 13% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 59 | 62 | 1041 | 99 |
| LT Vol | 10 | 1 | 11 | 28 |
| Through Vol | 39 | 57 | 1005 | 58 |
| RT Vol | 10 | 4 | 25 | 13 |
| Lane Flow Rate | 68 | 71 | 1197 | 114 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.125 | 0.107 | 1.522 | 0.193 |
| Departure Headway (Hd) | 7.817 | 5.984 | 4.58 | 7.24 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 462 | 603 | 802 | 498 |
| Service Time | 5.817 | 3.984 | 2.601 | 5.24 |
| HCM Lane V/C Ratio | 0.147 | 0.118 | 1.493 | 0.229 |
| HCM Control Delay | 11.9 | 9.7 | 255.2 | 12 |
| HCM Lane LOS | B | A | F | B |
| HCM 95th-tile Q | 0.4 | 0.4 | 58.7 | 0.7 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 553.5 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 4 | 124 | 0 | 10 | 1075 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Future Vol, veh/h | 4 | 124 | 0 | 10 | 1075 | 241 | 0 | 7 | 11 | 211 | 7 | 32 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles, % | 3 | 6 | 0 | 0 | 13 | 1 | 0 | 17 | 10 | 3 | 0 | 3 |
| Mvmt Flow | 6 | 175 | 0 | 14 | 1514 | 339 | 0 | 10 | 15 | 297 | 10 | 45 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 19.8 | 747.7 | 14.6 | 42.3 |
| HCM LOS | C | F | B | E |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 84% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 100% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 7 | 11 | 4 | 124 | 0 | 10 | 1075 | 241 | 250 |
| LT Vol | 0 | 0 | 4 | 0 | 0 | 10 | 0 | 0 | 211 |
| Through Vol | 7 | 0 | 0 | 124 | 0 | 0 | 1075 | 0 | 7 |
| RT Vol | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 241 | 32 |
| Lane Flow Rate | 10 | 15 | 6 | 175 | 0 | 14 | 1514 | 339 | 352 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.025 | 0.036 | 0.014 | 0.399 | 0 | 0.029 | 2.995 | 0.585 | 0.784 |
| Departure Headway (Hd) | 11.997 | 11.138 | 10.961 | 10.492 | 10.385 | 7.407 | 7.122 | 6.210 | 8.439 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 300 | 323 | 329 | 346 | 0 | 483 | 530 | 580 | 349 |
| Service Time | 9.697 | 8.838 | 8.661 | 8.192 | 8.085 | 5.163 | 4.878 | 3.956 | 8.139 |
| HCM Lane V/C Ratio | 0.033 | 0.046 | 0.018 | 0.506 | 0 | 0.029 | 2.857 | 0.584 | 1.009 |
| HCM Control Delay | 15 | 14.3 | 13.8 | 20 | 13.1 | 10.4 | 918.3 | 17.4 | 42.3 |
| HCM Lane LOS | B | B | B | C | N | B | F | C | E |
| HCM 95th-tile Q | 0.1 | 0.1 | 0 | 1.9 | 0 | 0.1 | 129.4 | 3.8 | 6.4 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 46 | 691 | 8 | 58 | 1319 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Future Volume (veh/h) | 46 | 691 | 8 | 58 | 1319 | 30 | 10 | 41 | 320 | 188 | 42 | 49 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.97 | 1.00 | | 0.99 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1885 | 1470 | 1900 | 1811 | 1900 | 1900 | 1856 | 1885 | 1870 | 1856 | 1767 |
| Adj Flow Rate, veh/h | 63 | 947 | 11 | 79 | 1807 | 41 | 14 | 56 | 438 | 258 | 58 | 67 |
| Peak Hour Factor | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Percent Heavy Veh, % | 0 | 1 | 29 | 0 | 6 | 0 | 0 | 3 | 1 | 2 | 3 | 9 |
| Cap, veh/h | 104 | 1206 | 418 | 110 | 1169 | 26 | 67 | 499 | 424 | 286 | 728 | 582 |
| Arrive On Green | 0.06 | 0.34 | 0.34 | 0.06 | 0.34 | 0.34 | 0.04 | 0.27 | 0.27 | 0.16 | 0.39 | 0.39 |
| Sat Flow, veh/h | 1810 | 3582 | 1240 | 1810 | 3438 | 78 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Grp Volume(v), veh/h | 63 | 947 | 11 | 79 | 901 | 947 | 14 | 56 | 438 | 258 | 58 | 67 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1791 | 1240 | 1810 | 1721 | 1795 | 1810 | 1856 | 1576 | 1781 | 1856 | 1483 |
| Q Serve(g_s), s | 4.2 | 29.2 | 0.7 | 5.3 | 41.7 | 41.7 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Cycle Q Clear(g_c), s | 4.2 | 29.2 | 0.7 | 5.3 | 41.7 | 41.7 | 0.9 | 2.8 | 33.0 | 17.4 | 2.4 | 3.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.04 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 104 | 1206 | 418 | 110 | 585 | 610 | 67 | 499 | 424 | 286 | 728 | 582 |
| V/C Ratio(X) | 0.60 | 0.79 | 0.03 | 0.72 | 1.54 | 1.55 | 0.21 | 0.11 | 1.03 | 0.90 | 0.08 | 0.12 |
| Avail Cap(c_a), veh/h | 146 | 1206 | 418 | 153 | 585 | 610 | 177 | 499 | 424 | 369 | 728 | 582 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 56.4 | 36.7 | 27.2 | 56.6 | 40.5 | 40.5 | 57.3 | 33.8 | 44.8 | 50.5 | 23.4 | 23.7 |
| Incr Delay (d2), s/veh | 3.4 | 3.8 | 0.0 | 6.3 | 251.7 | 256.4 | 0.9 | 0.1 | 52.4 | 19.3 | 0.1 | 0.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.0 | 13.3 | 0.2 | 2.6 | 58.3 | 61.6 | 0.4 | 1.3 | 18.9 | 9.3 | 1.1 | 1.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 59.8 | 40.4 | 27.3 | 62.8 | 292.2 | 296.9 | 58.2 | 33.9 | 97.2 | 69.8 | 23.4 | 23.8 |
| LnGrp LOS | E | D | C | E | F | F | E | C | F | E | C | C |
| Approach Vol, veh/h | | 1021 | | | 1927 | | | 508 | | | 383 | |
| Approach Delay, s/veh | | 41.5 | | | 285.1 | | | 89.2 | | | 54.8 | |
| Approach LOS | | D | | | F | | | F | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.1 | 47.3 | 9.2 | 54.1 | 11.7 | 47.7 | 24.3 | 39.0 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 10.4 | * 41 | 12.0 | * 46 | 9.9 | * 42 | 25.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 7.3 | 31.2 | 2.9 | 5.5 | 6.2 | 43.7 | 19.4 | 35.0 |
| Green Ext Time (p_c), s | 0.0 | 6.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.3 | 0.0 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 171.4 |
| HCM 6th LOS | F |

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1384 | 8 | 4 | 1372 | 0 | 11 | 0 | 8 | 49 | 0 | 370 |
| Future Volume (vph) | 0 | 1384 | 8 | 4 | 1372 | 0 | 11 | 0 | 8 | 49 | 0 | 370 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (prot) | | 3535 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | | 1555 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | | 1.00 |
| Satd. Flow (perm) | | 3535 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | | 1555 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 0 | 1472 | 9 | 4 | 1460 | 0 | 12 | 0 | 9 | 52 | 0 | 394 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 1481 | 0 | 4 | 1460 | 0 | 12 | 0 | 1 | 52 | 0 | 394 |
| Confl. Peds. (#/hr) | | | 5 | 5 | | | | | | | | 19 |
| Confl. Bikes (#/hr) | | | 1 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 45.1 | | 1.0 | 50.2 | | 5.3 | | 5.3 | 5.3 | | 65.0 |
| Effective Green, g (s) | | 45.1 | | 1.0 | 50.2 | | 5.3 | | 5.3 | 5.3 | | 65.0 |
| Actuated g/C Ratio | | 0.69 | | 0.02 | 0.77 | | 0.08 | | 0.08 | 0.08 | | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | | |
| Lane Grp Cap (vph) | | 2452 | | 27 | 2733 | | 114 | | 129 | 144 | | 1555 |
| v/s Ratio Prot | | c0.42 | | 0.00 | c0.41 | | | | | | | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | 0.03 | | c0.25 |
| v/c Ratio | | 0.60 | | 0.15 | 0.53 | | 0.11 | | 0.01 | 0.36 | | 0.25 |
| Uniform Delay, d1 | | 5.2 | | 31.6 | 2.9 | | 27.7 | | 27.4 | 28.2 | | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Incremental Delay, d2 | | 0.8 | | 1.7 | 0.5 | | 0.6 | | 0.0 | 2.2 | | 0.4 |
| Delay (s) | | 6.0 | | 33.2 | 3.4 | | 28.2 | | 27.5 | 30.5 | | 0.4 |
| Level of Service | | A | | C | A | | C | | C | C | | A |
| Approach Delay (s) | | 6.0 | | | 3.4 | | | 27.9 | | | 3.9 | |
| Approach LOS | | A | | | A | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 4.8 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.60 | | |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 62.4% | ICU Level of Service | B |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 65 | 813 | 0 | 0 | 823 | 55 | 831 | 0 | 602 | 0 | 0 | 0 |
| Future Volume (vph) | 65 | 813 | 0 | 0 | 823 | 55 | 831 | 0 | 602 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 0.99 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1671 | 1845 | | | 3436 | | 3242 | | 1549 | | | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 72 | 903 | 0 | 0 | 914 | 61 | 923 | 0 | 669 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 72 | 903 | 0 | 0 | 975 | 0 | 923 | 0 | 669 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 22 | | 6 | 6 | | 22 | | | 1 | 1 | | |
| Confl. Bikes (#/hr) | | | | | | 2 | | | | | | |
| Heavy Vehicles (%) | 8% | 3% | 0% | 0% | 4% | 0% | 8% | 0% | 3% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 6.5 | 43.1 | | | 29.5 | | 12.8 | | 65.8 | | | |
| Effective Green, g (s) | 6.5 | 43.1 | | | 29.5 | | 12.8 | | 65.8 | | | |
| Actuated g/C Ratio | 0.10 | 0.66 | | | 0.45 | | 0.19 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 165 | 1208 | | | 1540 | | 630 | | 1549 | | | |
| v/s Ratio Prot | 0.04 | c0.49 | | | 0.28 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.28 | | 0.43 | | | |
| v/c Ratio | 0.44 | 0.75 | | | 0.63 | | 1.47 | | 0.43 | | | |
| Uniform Delay, d1 | 27.9 | 7.7 | | | 14.0 | | 26.5 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 1.3 | 3.5 | | | 1.5 | | 217.9 | | 0.9 | | | |
| Delay (s) | 29.3 | 11.2 | | | 15.4 | | 244.4 | | 0.9 | | | |
| Level of Service | C | B | | | B | | F | | A | | | |
| Approach Delay (s) | | 12.5 | | | 15.4 | | | 142.1 | | | 0.0 | |
| Approach LOS | | B | | | B | | | F | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 71.6 | HCM 2000 Level of Service | E |
| HCM 2000 Volume to Capacity ratio | 1.04 | | |
| Actuated Cycle Length (s) | 65.8 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 74.2% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 389.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 39 | 1050 | 42 | 7 | 56 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Future Vol, veh/h | 39 | 1050 | 42 | 7 | 56 | 34 | 6 | 50 | 14 | 39 | 39 | 6 |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles, % | 3 | 2 | 3 | 0 | 5 | 0 | 40 | 2 | 8 | 0 | 14 | 0 |
| Mvmt Flow | 52 | 1400 | 56 | 9 | 75 | 45 | 8 | 67 | 19 | 52 | 52 | 8 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 1 | 1 | 1 | 1 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 1 | 1 | 1 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 1 | 1 | 1 | 1 |
| HCM Control Delay | 472.7 | 11 | 13.9 | 13.4 |
| HCM LOS | F | B | B | B |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|---|---|---|---|---|
| Vol Left, % | 9% | 3% | 7% | 46% |
| Vol Thru, % | 71% | 93% | 58% | 46% |
| Vol Right, % | 20% | 4% | 35% | 7% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 70 | 1131 | 97 | 84 |
| LT Vol | 6 | 39 | 7 | 39 |
| Through Vol | 50 | 1050 | 56 | 39 |
| RT Vol | 14 | 42 | 34 | 6 |
| Lane Flow Rate | 93 | 1508 | 129 | 112 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.178 | 2.012 | 0.192 | 0.196 |
| Departure Headway (Hd) | 8.979 | 4.802 | 6.479 | 8.391 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 402 | 769 | 557 | 431 |
| Service Time | 6.979 | 2.842 | 4.479 | 6.391 |
| HCM Lane V/C Ratio | 0.231 | 1.961 | 0.232 | 0.26 |
| HCM Control Delay | 13.9 | 472.7 | 11 | 13.4 |
| HCM Lane LOS | B | F | B | B |
| HCM 95th-tile Q | 0.6 | 99.7 | 0.7 | 0.7 |

| Intersection | |
|---|---|
| Intersection Delay, s/veh | 386.1 |
| Intersection LOS | F |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Vol, veh/h | 21 | 1159 | 1 | 24 | 172 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Future Vol, veh/h | 21 | 1159 | 1 | 24 | 172 | 90 | 0 | 1 | 19 | 74 | 3 | 22 |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Heavy Vehicles, % | 11 | 1 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 5 |
| Mvmt Flow | 24 | 1302 | 1 | 27 | 193 | 101 | 0 | 1 | 21 | 83 | 3 | 25 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

| Approach | EB | WB | NB | SB |
|---|---|---|---|---|
| Opposing Approach | WB | EB | SB | NB |
| Opposing Lanes | 3 | 3 | 1 | 2 |
| Conflicting Approach Left | SB | NB | EB | WB |
| Conflicting Lanes Left | 1 | 2 | 3 | 3 |
| Conflicting Approach Right | NB | SB | WB | EB |
| Conflicting Lanes Right | 2 | 1 | 3 | 3 |
| HCM Control Delay | 513.6 | 14.2 | 12.2 | 15.2 |
| HCM LOS | F | B | B | C |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | EBLn3 | WBLn1 | WBLn2 | WBLn3 | SBLn1 |
|---|---|---|---|---|---|---|---|---|---|
| Vol Left, % | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 75% |
| Vol Thru, % | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 3% |
| Vol Right, % | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 100% | 22% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 1 | 19 | 21 | 1159 | 1 | 24 | 172 | 90 | 99 |
| LT Vol | 0 | 0 | 21 | 0 | 0 | 24 | 0 | 0 | 74 |
| Through Vol | 1 | 0 | 0 | 1159 | 0 | 0 | 172 | 0 | 3 |
| RT Vol | 0 | 19 | 0 | 0 | 1 | 0 | 0 | 90 | 22 |
| Lane Flow Rate | 1 | 21 | 24 | 1302 | 1 | 27 | 193 | 101 | 111 |
| Geometry Grp | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Degree of Util (X) | 0.002 | 0.041 | 0.043 | 2.119 | 0.002 | 0.053 | 0.357 | 0.166 | 0.234 |
| Departure Headway (Hd) | 9.836 | 9.119 | 6.533 | 5.857 | 5.135 | 8.807 | 8.403 | 7.657 | 9.569 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 366 | 395 | 546 | 625 | 692 | 409 | 431 | 471 | 378 |
| Service Time | 7.536 | 6.819 | 4.301 | 3.626 | 2.903 | 6.507 | 6.103 | 5.357 | 7.269 |
| HCM Lane V/C Ratio | 0.003 | 0.053 | 0.044 | 2.083 | 0.001 | 0.066 | 0.448 | 0.214 | 0.294 |
| HCM Control Delay | 12.6 | 12.2 | 9.6 | 523.2 | 7.9 | 12 | 15.7 | 11.9 | 15.2 |
| HCM Lane LOS | B | B | A | F | A | B | C | B | C |
| HCM 95th-tile Q | 0 | 0.1 | 0.1 | 90.3 | 0 | 0.2 | 1.6 | 0.6 | 0.9 |



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 11 | 1424 | 24 | 226 | 800 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Future Volume (veh/h) | 11 | 1424 | 24 | 226 | 800 | 64 | 35 | 10 | 133 | 79 | 21 | 30 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.98 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1900 | 1870 | 1767 | 1900 | 1870 | 1900 | 1900 | 1900 | 1870 | 1885 | 1900 | 1900 |
| Adj Flow Rate, veh/h | 12 | 1531 | 26 | 243 | 860 | 69 | 38 | 11 | 143 | 85 | 23 | 32 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 0 | 2 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Cap, veh/h | 42 | 1300 | 535 | 288 | 1671 | 134 | 153 | 296 | 246 | 112 | 254 | 211 |
| Arrive On Green | 0.02 | 0.37 | 0.37 | 0.16 | 0.50 | 0.50 | 0.08 | 0.16 | 0.16 | 0.06 | 0.13 | 0.13 |
| Sat Flow, veh/h | 1810 | 3554 | 1464 | 1810 | 3331 | 267 | 1810 | 1900 | 1579 | 1795 | 1900 | 1581 |
| Grp Volume(v), veh/h | 12 | 1531 | 26 | 243 | 459 | 470 | 38 | 11 | 143 | 85 | 23 | 32 |
| Grp Sat Flow(s),veh/h/ln | 1810 | 1777 | 1464 | 1810 | 1777 | 1822 | 1810 | 1900 | 1579 | 1795 | 1900 | 1581 |
| Q Serve(g_s), s | 0.5 | 30.2 | 0.9 | 10.8 | 14.3 | 14.3 | 1.6 | 0.4 | 6.9 | 3.8 | 0.9 | 1.5 |
| Cycle Q Clear(g_c), s | 0.5 | 30.2 | 0.9 | 10.8 | 14.3 | 14.3 | 1.6 | 0.4 | 6.9 | 3.8 | 0.9 | 1.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 42 | 1300 | 535 | 288 | 891 | 914 | 153 | 296 | 246 | 112 | 254 | 211 |
| V/C Ratio(X) | 0.28 | 1.18 | 0.05 | 0.84 | 0.51 | 0.51 | 0.25 | 0.04 | 0.58 | 0.76 | 0.09 | 0.15 |
| Avail Cap(c_a), veh/h | 184 | 1300 | 535 | 710 | 1167 | 1196 | 294 | 760 | 631 | 313 | 783 | 651 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 39.6 | 26.2 | 16.9 | 33.7 | 13.8 | 13.8 | 35.3 | 29.6 | 32.3 | 38.1 | 31.4 | 31.6 |
| Incr Delay (d2), s/veh | 2.2 | 88.2 | 0.1 | 4.2 | 0.7 | 0.7 | 0.5 | 0.1 | 2.6 | 6.3 | 0.2 | 0.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.3 | 27.9 | 0.3 | 4.9 | 5.5 | 5.6 | 0.7 | 0.2 | 2.8 | 1.9 | 0.4 | 0.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 41.9 | 114.4 | 17.0 | 37.9 | 14.6 | 14.5 | 35.8 | 29.6 | 34.9 | 44.4 | 31.5 | 32.0 |
| LnGrp LOS | D | F | B | D | B | B | D | C | C | D | C | C |
| Approach Vol, veh/h | | 1569 | | | 1172 | | | 192 | | | 140 | |
| Approach Delay, s/veh | | 112.2 | | | 19.4 | | | 34.8 | | | 39.5 | |
| Approach LOS | | F | | | B | | | C | | | D | |

| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Phs Duration (G+Y+Rc), s | 13.7 | 36.2 | 11.6 | 17.0 | 6.5 | 47.4 | 9.7 | 18.9 |
| Change Period (Y+Rc), s | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 | 4.6 | * 6 |
| Max Green Setting (Gmax), s | 32.4 | * 30 | 13.4 | * 34 | 8.4 | * 54 | 14.4 | * 33 |
| Max Q Clear Time (g_c+I1), s | 12.3 | 32.2 | 3.6 | 3.5 | 2.5 | 16.3 | 5.8 | 8.9 |
| Green Ext Time (p_c), s | 0.4 | 0.0 | 0.0 | 0.2 | 0.0 | 11.9 | 0.1 | 0.6 |

| Intersection Summary | |
|---|---|
| HCM 6th Ctrl Delay | 68.7 |
| HCM 6th LOS | E |

**Notes**

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| ovement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 0 | 1854 | 9 | 13 | 1323 | 0 | 7 | 0 | 12 | 89 | 1 | 128 |
| Future Volume (vph) | 0 | 1854 | 9 | 13 | 1323 | 0 | 7 | 0 | 12 | 89 | 1 | 128 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | 4.0 |
| Lane Util. Factor | | 0.95 | | 1.00 | 0.95 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 0.99 |
| Flpb, ped/bikes | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 0.85 | 1.00 | 1.00 | 0.85 |
| Flt Protected | | 1.00 | | 0.95 | 1.00 | | 0.95 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | | 3536 | | 1770 | 3539 | | 1770 | | 1583 | 1770 | 1863 | 1560 |
| Flt Permitted | | 1.00 | | 0.95 | 1.00 | | 0.76 | | 1.00 | 0.95 | 1.00 | 1.00 |
| Satd. Flow (perm) | | 3536 | | 1770 | 3539 | | 1410 | | 1583 | 1770 | 1863 | 1560 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 0 | 2015 | 10 | 14 | 1438 | 0 | 8 | 0 | 13 | 97 | 1 | 139 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 0 | 2025 | 0 | 14 | 1438 | 0 | 8 | 0 | 1 | 97 | 1 | 139 |
| Confl. Peds. (#/hr) | | | 6 | 6 | | | | | | | | 10 |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Turn Type | | NA | | Prot | NA | | Perm | | Perm | Perm | NA | Free |
| Protected Phases | | 2 | | 1 | 6 | | | | | | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | | Free |
| Actuated Green, G (s) | | 58.7 | | 1.4 | 64.2 | | 9.1 | | 9.1 | 9.1 | 9.1 | 82.8 |
| Effective Green, g (s) | | 58.7 | | 1.4 | 64.2 | | 9.1 | | 9.1 | 9.1 | 9.1 | 82.8 |
| Actuated g/C Ratio | | 0.71 | | 0.02 | 0.78 | | 0.11 | | 0.11 | 0.11 | 0.11 | 1.00 |
| Clearance Time (s) | | 5.3 | | 4.1 | 5.3 | | 4.2 | | 4.2 | 4.2 | 4.2 | |
| Vehicle Extension (s) | | 6.1 | | 2.4 | 6.1 | | 4.1 | | 4.1 | 4.1 | 4.1 | |
| Lane Grp Cap (vph) | | 2506 | | 29 | 2744 | | 154 | | 173 | 194 | 204 | 1560 |
| v/s Ratio Prot | | c0.57 | | 0.01 | c0.41 | | | | | | 0.00 | |
| v/s Ratio Perm | | | | | | | 0.01 | | 0.00 | c0.05 | | 0.09 |
| v/c Ratio | | 0.81 | | 0.48 | 0.52 | | 0.05 | | 0.01 | 0.50 | 0.00 | 0.09 |
| Uniform Delay, d1 | | 8.2 | | 40.3 | 3.5 | | 33.0 | | 32.8 | 34.7 | 32.8 | 0.0 |
| Progression Factor | | 1.00 | | 1.00 | 1.00 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | | 2.4 | | 8.1 | 0.5 | | 0.2 | | 0.0 | 2.9 | 0.0 | 0.1 |
| Delay (s) | | 10.6 | | 48.4 | 4.0 | | 33.2 | | 32.9 | 37.6 | 32.8 | 0.1 |
| Level of Service | | B | | D | A | | C | | C | D | C | A |
| Approach Delay (s) | | 10.6 | | | 4.4 | | | 33.0 | | | 15.6 | |
| Approach LOS | | B | | | A | | | C | | | B | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 8.7 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.77 | | |
| Actuated Cycle Length (s) | 82.8 | Sum of lost time (s) | 13.6 |
| Intersection Capacity Utilization | 75.5% | ICU Level of Service | D |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (vph) | 388 | 569 | 0 | 0 | 1722 | 69 | 480 | 0 | 332 | 0 | 0 | 0 |
| Future Volume (vph) | 388 | 569 | 0 | 0 | 1722 | 69 | 480 | 0 | 332 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | 4.0 | | | |
| Lane Util. Factor | 1.00 | 1.00 | | | 0.95 | | 0.97 | | 1.00 | | | |
| Frpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Flpb, ped/bikes | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Frt | 1.00 | 1.00 | | | 0.99 | | 1.00 | | 0.85 | | | |
| Flt Protected | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (prot) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Flt Permitted | 0.95 | 1.00 | | | 1.00 | | 0.95 | | 1.00 | | | |
| Satd. Flow (perm) | 1719 | 1863 | | | 3539 | | 3502 | | 1583 | | | |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 417 | 612 | 0 | 0 | 1852 | 74 | 516 | 0 | 357 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 417 | 612 | 0 | 0 | 1926 | 0 | 516 | 0 | 357 | 0 | 0 | 0 |
| Confl. Peds. (#/hr) | 8 | | 4 | 4 | | 8 | | | | | | |
| Confl. Bikes (#/hr) | | | 3 | | | | | | | | | |
| Heavy Vehicles (%) | 5% | 2% | 0% | 0% | 1% | 8% | 0% | 0% | 2% | 0% | 0% | 0% |
| Turn Type | Prot | NA | | | NA | | Perm | | Free | | | |
| Protected Phases | 5 | 2 | | | 6 | | | | | | | |
| Permitted Phases | | | | | | | 8 | | Free | | | |
| Actuated Green, G (s) | 7.0 | 70.7 | | | 56.6 | | 16.4 | | 97.0 | | | |
| Effective Green, g (s) | 7.0 | 70.7 | | | 56.6 | | 16.4 | | 97.0 | | | |
| Actuated g/C Ratio | 0.07 | 0.73 | | | 0.58 | | 0.17 | | 1.00 | | | |
| Clearance Time (s) | 7.1 | 5.3 | | | 5.3 | | 4.6 | | | | | |
| Vehicle Extension (s) | 2.5 | 6.1 | | | 6.1 | | 4.0 | | | | | |
| Lane Grp Cap (vph) | 124 | 1357 | | | 2065 | | 592 | | 1583 | | | |
| v/s Ratio Prot | c0.24 | 0.33 | | | c0.54 | | | | | | | |
| v/s Ratio Perm | | | | | | | c0.15 | | 0.23 | | | |
| v/c Ratio | 3.36 | 0.45 | | | 0.93 | | 0.87 | | 0.23 | | | |
| Uniform Delay, d1 | 45.0 | 5.3 | | | 18.5 | | 39.3 | | 0.0 | | | |
| Progression Factor | 1.00 | 1.00 | | | 1.00 | | 1.00 | | 1.00 | | | |
| Incremental Delay, d2 | 1083.6 | 0.7 | | | 9.0 | | 13.7 | | 0.3 | | | |
| Delay (s) | 1128.6 | 6.0 | | | 27.4 | | 52.9 | | 0.3 | | | |
| Level of Service | F | A | | | C | | D | | A | | | |
| Approach Delay (s) | | 460.9 | | | 27.4 | | | 31.4 | | | 0.0 | |
| Approach LOS | | F | | | C | | | C | | | A | |

| Intersection Summary | | | |
|---|---|---|---|
| HCM 2000 Control Delay | 144.9 | HCM 2000 Level of Service | F |
| HCM 2000 Volume to Capacity ratio | 1.13 | | |
| Actuated Cycle Length (s) | 97.0 | Sum of lost time (s) | 17.0 |
| Intersection Capacity Utilization | 98.7% | ICU Level of Service | F |
| Analysis Period (min) | 15 | | |
| c Critical Lane Group | | | |