Prepared for

Baldwin Park Operable Unit
Cooperating Respondents

Addendum to
2014 Annual Performance Evaluation Report

BALDWIN PARK OPERABLE UNIT OF THE SAN GABRIEL VALLEY SUPERFUND SITES LOS ANGELES COUNTY, CALIFORNIA

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1. INTRODUCTION

This Addendum to the 2014 Annual Performance Evaluation (PE) Report (Geosyntec and ERM, 2015) provides a summary of modeling activities including updates to and simulations performed using the site-specific groundwater model for the Baldwin Park Operable Unit (BPOU) of the San Gabriel Valley Superfund Sites, which are located in the San Gabriel Basin, Los Angeles County, California (see Figure 1-1). At the end of each water year (WY), the BPOU groundwater model is updated and used to simulate groundwater flow and advective particle pathlines through the latest WY (in this case WY 2013-2014). The calibrated BPOU groundwater model is used to assess BPOU extraction system performance with a focus on achieving the performance standards outlined in the Performance Standards Evaluation Plan [PSEP] (AMEC, 2013). These performance standards are: 1) limit further migration of Chemicals of Concern (COCs) in groundwater, and 2) remove COCs from groundwater.

This document was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of the BPOU Cooperating Respondents (CRs). The CRs are:

- Aerojet Rocketdyne, Inc. (formerly known as [f.k.a.] Aerojet-General Corporation);
- Azusa Land Reclamation Company, Inc. (ALR);
- Hartwell Corporation;
- Chemical Waste Management, Inc. (as successor to Oil and Solvent Process Company); and
- Winco Enterprises Inc. (f.k.a. Wynn Oil Company).

This Addendum meets the requirements for the Annual PE Report, as required by Unilateral Administrative Order 2000-13 (UAO) and the supporting Statement of Work (SOW), issued by the U.S. Environmental Protection Agency (EPA) Region IX on June 30, 2000, and amended on February 28, 2002.

2. GROUNDWATER MODEL UPDATES

As described in the PSEP, the BPOU groundwater model is the primary tool for assessing extraction system performance. The BPOU groundwater model consists of a transient, finite element model developed using the proprietary FEFLOW software code available for purchase by DHI-WASY GmbH (DHI). FEFLOW is capable of simulating saturated and unsaturated groundwater flow, contaminant fate and transport (not used), and advective particle streamlines and pathlines.

The development and configuration of the BPOU groundwater model is described in the Comprehensive Groundwater Modeling Report, dated July 29, 2005 (Geomatrix, 2005) and the Addendum to the Comprehensive Groundwater Modeling Report, dated September 8, 2006, (Geomatrix, 2006). The horizontal model domain (Figure 2-1) is bounded to the northwest by the Raymond Fault, the northeast by the base of the San Gabriel Mountains, the southeast by the San Jose Hills and Puente Valley, and to the south by the Puente Hills and Whittier Narrows. The vertical model domain consists of 18 nodal slices and 17 numerical layers. Slices are numbered from the water table (slice 1) through the bottom of the model (slice 18). Layers 1 through 16 represent alluvium, while layer 17 represents the underlying bedrock.

The BPOU groundwater model was updated through the end of WY 2013-14 (July 1, 2013 - June 30, 2014) to current basin-wide groundwater flow conditions. Updates include adding reported quarterly-averaged pumping rates, net recharge (both regional recharge due to precipitation and irrigation return flows, and local recharge from water bodies/recharge basins), and model boundary water fluxes.

In addition to WY 2013-2014 updates, additional updates were performed as listed below in Sections 2.1 through 2.5. Updates to the model reported herein consist of adding recently available information and do not represent a reconfiguration of the model or change to the conceptual site model. For example, the model domain extents, vertical discretization, and hydrogeological parameterization were deemed appropriate and were unchanged. Model updates and revised model calibration results are described in Sections 2.1 through 2.5 below.

2.1 Groundwater Modeling Software Update

To utilize the latest version of the FEFLOW software code, the previous version of the BPOU groundwater model was updated and converted to FEFLOW version 6.2. There are several improvements included in FEFLOW version 6.2 compared to previous versions. For example, the 64-bit version of FEFLOW reduces simulation run times by enabling the use of parallelization. Reducing simulation computation times are advantageous given the

approximately 32-year simulation period, the relatively large extent of the model domain, and the number of nodes and elements comprising the numerical grid.

FEFLOW version 6.2 has the ability to simulate advective particle pathlines directly within the software. Therefore, the need to export model flow results and input them into the separate FETRAC software was no longer necessary (see Section 2.6). In a letter dated October 30, 2014, EPA provided comments on the 2013 Annual PE Report and suggested that particle tracks of greater than 10,000 feet for a 3-year period seemed too long based on estimated groundwater flow velocities in Subarea 1. In their response to EPA comments dated November 25, 2014, the BPOU CRs agreed to investigate this issue during the preparation of the particle tracks for the 2014 Annual PE Report presented herein. As a result, a sensitivity analysis was performed using the FEFLOW particle tracking routine to evaluate the sensitivity of the particle track lengths to changes in the effective porosity assigned in the FEFLOW particle tracking routine. The sensitivity of the particle tracking model to variation in the assigned effective porosity was evaluated by evaluating the length of the particle tracks relative to estimates of groundwater velocities in the BPOU using three different effective porosity values (0.09, 0.15, and 0.30, a unitless value). The effective porosity of 0.09 is based on the specific yield developed through calibration of the groundwater flow model to transient water-level conditions over the 32-year simulation period. The assignment of an effective porosity equivalent to the specific yield of 0.09 is consistent with the convention used in transient particle tracking simulations presented in previous BPOU Annual Performance Evaluation Reports and other predictive simulations of extraction system performance. Effective porosities of 0.15 and 0.30 were selected based on published values for unconsolidated sand and gravel aquifers with similar geologic characteristics to those observed in the San Gabriel Basin. Although a value of 0.09 is consistent with prior particle tracking efforts, this value appears low considering San Gabriel Basin aquifer characteristics, hence the use of both 0.15 and 0.30 in the sensitivity analyses.

The length of particle tracks and the related width of capture areas developed using effective porosities of 0.09, 0.15, and 0.30 were compared to evaluate the sensitivity of the FEFLOW particle tracking routine to changes in effective porosity. As expected, the length of particle tracks generally increased linearly in proportion to reductions in the effective porosity. For example, a 2-fold reduction in effective porosity from 0.30 to 0.15 resulted in particle tracks that were approximately 2 times longer. Comparison of particle tracks in the immediate vicinity of pumping extraction wells indicated no significant difference in the width of capture using effective porosities of 0.09, 0.15, and 0.30. Given that effective porosity is not a measured parameter and does not influence the width of capture, it is recommended that an effective porosity equivalent to the specific yield of 0.09 continue to be used for future particle tracking simulations. Particle tracks developed using the specific yield-based effective porosity

of 0.09 are presented in Section 3.0 below. For comparison, particle tracks developed using effective porosities of 0.15 and 0.30 are presented in Appendix A. It should also be noted that the use of the FEFLOW particle tracking routine in lieu of the FETRAC software appears to have eliminated the issue of disproportionally long particle tracks raised by EPA. Travel times represented by the length of the particle tracks generated using the FEFLOW particle tracking routine appear to be generally proportional to estimated groundwater flow velocities in the BPOU.

2.2 Groundwater Pumping Updates

The BPOU groundwater model update included significant additions to the number of simulated pumping wells compared to previous modeling efforts. Overall, 12 additional pumping wells were added to the model as multilayer wells (Table 2-1 and Figure 2-2) resulting in a total of 383 pumping wells in the model. Additionally, 114 previously grouped pumping wells were separated such that each well is individually simulated. Pumping wells were input into the model as multilayer wells which allows for multilayer-well boundary conditions that simulate water recovery via a well screen that intersects multiple model layers. The total pumping rate is assigned at the bottom-most node of the multilayer-well and a highly-conductive one-dimensional discrete feature is simulated vertically along the well screen.

Because the newly added pumping wells were not part of the project database, pumping records for new wells were hand entered from hard copy records made available by the Watermaster. A tabular compilation of quarterly pumpage rates for each well in the updated groundwater model is provided in Appendix B. Figure 2-3 shows simulated cumulative pumping over the transient simulation period for previous modeling efforts and for the current model update. To avoid the need to group pumping wells due to insufficient grid nodes being present proximal to pumping well locations, the numerical grid spacing in the horizontal direction was refined and additional nodes were added in areas with multiple wells (see Figure 2-1).

Groundwater pumping in WY 2013-14 continued to exhibit similar seasonal trends as previous years; the largest amount of pumping occurred during the peak of the dry season in the third quarter of the calendar year, and the smallest amount of pumping occurred during the peak of the wet season in the first quarter of the calendar year. Figure 2-4 shows simulated quarterly recharge rates and Figure 2-5 shows a comparison of annual recharge and annual pumping throughout the entire model simulation period. As shown on Figure 2-5, groundwater pumpage exceeded annual recharge during WY 2013-14.

2.3 Groundwater Recharge Updates

Groundwater is recharged in the model through the use of spreading basins, river losses to the underlying aquifer, and infiltrating precipitation and irrigation return flows. Spreading basin and river reach recharge data for WY 2013-14 were obtained from Los Angeles County Department of Public Works (LACDPW) and input into the top layer of the BPOU groundwater model. Table 2-2 summarizes the quarterly recharge rates for each spreading basin and river reach used in the model for the entire model simulation period (WY 1982-83 through WY 2013-14).

Recharge assumed to be derived from precipitation and irrigation return flows were initially assigned after evaluating precipitation records made available by LACDPW and the magnitude of recorded groundwater pumping (assumed to be indicative of applied irrigation and related irrigation return flows). Similar to the methodology described in the 2010 Annual PE Report (AMEC and ERM, 2011), recharge from precipitation and irrigation return flows was modified on a trial-and-error basis to obtain an acceptable match between simulated and observed water levels during the 32-year period simulated by the groundwater model, with emphasis on ensuring a reasonable match to peak high and low water levels. Table 2-3 summarizes the quarterly recharge rates from precipitation and irrigation return flows for each recharge zone used in the model for the entire simulation period. The recharge zone locations and extents were unchanged during the model update. Figure 2-4 presents the quarterly recharge volumes from all simulated water conservation facilities (spreading basins and river reaches) and from regionally-distributed recharge (precipitation and irrigation return flows) for the entire model simulation period. Unlike past modeling efforts, it was not necessary to specify post-2012 areally-distributed recharge from precipitation and irrigation return flows to levels as low as zero. However, to obtain a suitable model calibration, recharge from precipitation and irrigation return flows was decreased around year 2001, which is likely a result of decreased precipitation (e.g., precipitation in the San Gabriel Basin was less than 50 percent of normal in WY 2013-14) and implementation of improved water conservation measures that reduced outdoor water use and related recharge from irrigation return flows.

2.4 Boundary Condition Updates

Boundary conditions for WY 2013-14 were updated in the same manner as during previous model updates. Water level data from WY 2013-14 were obtained from the LACDPW to update the time-variant head boundaries that were used to simulate inflows to the flow system from the Chino Basin and groundwater outflows to Whittier Narrows. The nodal locations for each boundary condition were unchanged from previous modeling efforts.

2.5 Updated Model Calibration

After completing the model updates described in Sections 2.1 through 2.4, the model was checked for its ability to replicate observed head levels over the 32-year simulation period ending in WY 2013-14. The list of observation wells used to assess the model calibration is presented in Table 2-4. Updated model calibration statistics are summarized in Table 2-5. Calibration statistics were calculated for two data sets. The first data set (herein referred to as "complete dataset") consists of observation and pumping wells utilized during recent model calibration efforts and data from observation wells PZ-1-3B S, PZ1-3B D, PZ3-1B S, PZ3-1B-S, MW 5-03 (multiport), and MW 5-23 (multiport). Because using pumping wells with quarterly-averaged extraction rates and comparing the model-predicted heads to instantaneous observed heads can provide misleading statistics, the second data set consists of the first observation data set without the pumping wells (herein referred to as the "non-pumping dataset").

Using the complete dataset of 89 observation points (pumping and non-pumping wells), the average basin-wide model residual (the average difference between model simulated and observed heads) for the 32-year simulation period is -0.38 feet (Table 2-5). The average model residual for the 47 observation wells within the BPOU area is -0.10 feet for the same period. The root-mean squared error (RMSE) for the calibrated model is 18.41 feet for the entire model and 6.68 feet for the BPOU area.

Excluding pumping well observation data and using the non-pumping dataset consisting of 68 observation points (Table 2-5), the average basin-wide model residual for the 32-year simulation period is 0.08 feet. The average model residual for the 41 observation wells within the BPOU area is -0.51 feet for the same period. The root-mean squared error (RMSE) for the calibrated model is 15.52 feet for the entire model and 5.62 feet for the BPOU area.

In the BPOU, simulated and observed potentiometric heads for the entire 32-year model simulation period are compared on hydrographs that are presented on Figures 2-6 through 2-10. These hydrographs illustrate the model's ability to simulate temporal changes in groundwater levels. Figure 2-6 shows a good match between observed and model-predicted heads for the LACO Key Well. Simulated water levels in the Subarea 1 (Figures 2-7 and 2-8) and Subarea 3 (Figures 2-9 and 2-10) portions of the BPOU generally are within about five feet of observed water levels except during periods of elevated water levels when simulated water levels are up to 10 feet higher than observed water levels. In Subarea 3, simulated water levels in the shallowest ports in MW 5-23 (ports 4 through 6), are generally lower than observed water levels by up to 15 feet (Figure 2-9). At request of EPA, previous consultants to the BPOU CRs conducted a detailed evaluation of the vertical head differences observed in Subarea 3

and refined the BPOU groundwater model by adding low permeability separating layers that were observed in well logs in parts of the Subarea 3 (Geomatrix, 2007). In addition, the vertical anisotropy ratio (ratio of vertical to horizontal hydraulic conductivity) assigned to various layers in the model were adjusted to increase simulated vertical gradients. Although these efforts resulted in some improvements to the match between observed and simulated vertical gradients, the model continues to locally underpredict observed vertical gradients as shown in Figure 2-9. This underprediction of vertical gradients is most likely attributable to the smaller (local) scale heterogeneities that are present in the aquifer compared to the broader scale of heterogeneities that are represented in the model (Geomatrix, 2007).

Potentiometric surfaces simulated using the BPOU groundwater model are compared to observed water levels in Fall 2013 and Spring 2014 on Figures 2-11 through 2-18. The simulated results were exported from the model for approximately the same time period as the observed water levels. As shown on Figures 2-11 and 2-12, simulated water levels in Subarea 1 are generally 1 to 4 feet higher than observed water levels in Fall 2013 and generally about 4 to 6 feet higher than observed water levels in Spring 2014. Simulated potentiometric surfaces in Subarea 3 are compared to observed water levels on Figures 2-13 through 2-18 for three different elevation intervals: above -200 feet mean sea level (msl), between -200 and -500 feet msl, and below -500 feet msl. These elevation intervals correspond to the approximate elevations of interpreted hydrostratigraphic separating units in Subarea 3. As shown on Figures 2-13 through 2-18, simulated water levels at multiport monitoring wells located more distal from pumping wells (MW5-20, MW5-22, and MW5-23) in the elevation interval above -200 feet msl generally ranged from 7 to 19 feet lower than observed water levels in Fall 2013 and ranged from about 1 to 4 feet lower than observed water levels in Spring 2014. Simulated water levels at MW5-20, MW5-22, and MW5-23 in the elevation interval between -200 and -500 feet msl generally ranged from 1 to 8 feet lower than observed water levels in Fall 2013 and ranged from about 1 foot lower to 7 feet higher than observed water levels in Spring 2014. In the elevation interval below -500 feet msl, simulated water levels at these locations ranged from about 0 to 5 feet lower than observed in Fall 2013 and 4 to 7 feet higher than observed in Spring 2014.

The largest differences between simulated and observed water levels occur in the immediate vicinity of the San Gabriel Valley Water Company (SGVWC) B5, B6, and California Domestic Water Company (CDWC) pumping wells in the elevation interval above -200 feet msl (Figures 2-13 and 2-16). These differences are most likely attributable to the smaller (local) scale of heterogeneities that are present in the aquifer compared to the broader scale of heterogeneities that are represented in the model. In addition, these differences in simulated and observed water levels may in part be related to variability in the pumping rates of various

extraction wells in response to water supply demands as compared to the average pumping rates that are simulated using quarterly stress periods in the model. The updated annual model water balance for each WY is summarized in Table 2-6.

3. MODEL SIMULATIONS OF EXTRACTION SYSTEM PERFORMANCE

Model simulations of extraction system performance were conducted using the updated BPOU groundwater model and transient particle tracking methods now available within FEFLOW. Transient forward particle tracking methods were used to evaluate the hydraulic performance of the project extraction wells under actual pumping conditions for a three-year time period ending at the close of WY 2013-14.

In response to previous requests by EPA, forward particle tracking was conducted to evaluate the hydraulic effects of the operation of project extraction wells beginning in the 2010 Annual PE Report. Forward particle tracking was performed for this reporting period by starting particles during WY 2011-12 and then simulating the forward paths of the particles under the transient groundwater flow conditions through the end of WY 2013-14. The starting locations for the particles are specified at all nodes within the interpreted extent of elevation-discrete intervals of the composite COC plume. The composite COC plume was developed by overlaying elevation-discrete isoconcentration contours for six selected COCs [1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine (NDMA), perchlorate, tetrachloroethene (PCE), and trichloroethene (TCE)] as described in the 2014 Annual PE Report (Geosyntec and ERM, 2015). The shallow interval of the composite COC plume is represented by the distribution of COCs above -200 feet msl, the intermediate interval by COCs between -200 and -500 feet msl, and the deep interval by COCs below -500 feet msl. Particles were not assigned in areas where the occurrence of individual COCs were localized and apparently disconnected from the composite COC plume. For example, a localized area of PCE greater than the Maximum Contaminant Level (MCL) is observed in the vicinity of the COI 5 extraction well. Particles were not released in this area because the occurrence of PCE above the MCL appears to be localized and not representative of the extent of the composite COC plume.

Because nodal spacing varies, particle starting locations are unevenly spaced within the composite COC plume and any perceived variation in particle density is not indicative of contamination levels or locations of any potential sources. It is also important to note that the particles do not represent contaminant mass; rather, they solely represent the advective movement of groundwater in order to depict the likely zones of hydraulic capture as the particles flow downgradient in groundwater during the three-year particle tracking simulation period. The resulting particle tracks cannot be utilized to infer, suggest, or demonstrate the source of any contamination. Further, since these particles do not represent mass and are not representative of solute transport, they do not incorporate processes such as retardation, diffusion, dispersion, and degradation. Given the limitations of the particle tracking results, depictions of hydraulic capture presented in this report should not be considered

representative of longer-term extraction system performance. Particle tracking results used to evaluate extraction system performance are presented in Section 4.0 below.

3.1 Simulated Groundwater Extraction Rates

As described in the Comprehensive Groundwater Modeling Report (Geomatrix, 2005) and in the PSEP (AMEC, 2013), the groundwater model simulates transient boundary conditions (both internal and external) using quarterly stress periods. Therefore, groundwater withdrawals from project extraction wells and other production wells are simulated using average quarterly pumping rates. The average quarterly pumping rates for each well are estimated by measuring the total volume (in acre-feet) that was pumped during the quarter, dividing the total volume by the number of days in the quarter, and then converting the result to an average quarterly pumping rate (in meters cubed per day). Simulated pumping rates for the entire 32-year simulation, as well as for the three-year particle tracking simulations, are summarized in Table 3-1.

3.2 Performance Evaluation Simulations

Groundwater flow simulations with forward particle tracking were performed to evaluate the performance of the groundwater extraction system as requested by EPA. Simulations were performed by simulating groundwater flow conditions and actual reported groundwater extraction for a three-year period from WY 2011-12 through WY 2013-14.

Results of the transient three-year particle tracking simulation of extraction system performance are presented in plan view for Subarea 1 on Figure 3-1. Results for Subarea 3 are presented in plan view at three elevation intervals on Figures 3-2 through 3-4. Figure 3-5 presents particle tracking results in profile view. Particle tracks are color coded on these figures; particles that are captured by project extraction wells are shown as green tracks, particles captured by the CDWC production wells are shown in blue, and particles not captured during the three-year simulation period are shown in gray. Starting particle locations are shown on the figures as solid circles located at the upgradient end of each particle track. As described above, the starting locations for the particles were assigned to provide a generalized representation of groundwater originating within the inferred horizontal and vertical extent of the composite COC plume. To aid the reader in evaluating the results, the interpreted extent of the composite dissolved plume in 2014 is shown on Figures 3-1 through 3-5 for reference. Given the limitations of the particle tracking results described above, depictions of short-term hydraulic control presented in this report should not be considered representative of long-term extraction system performance. Additional discussion of particle tracking results in relation to remedy performance is presented in Section 4.0 below.

4. ASSESSMENT OF MIGRATION CONTROL

As described in the PSEP, the BPOU groundwater model is the primary tool for assessing extraction system performance. Evaluations of extraction system performance were performed using the updated BPOU groundwater model and forward particle tracking based on actual pumping and water level conditions for the three-year period from WY 2011-12 through WY 2013-14. Because particle tracking simulations only cover a three-year period which may or may not be indicative of long term aquifer conditions, particle tracking results based on short-term (three year) simulations of groundwater flow are subject to various limitations and should not be considered representative of long-term extraction system performance.

Based on the evaluation of equipotential contours (Figures 2-11 through 2-18) and forward particle tracking results (Figures 3-1 through 3-5) presented in this Addendum, the general observations regarding extraction system performance are described below:

- Consistent with previous evaluations of extraction system performance, the operation of the Valley County Water District (VCWD) SA1-3 (Lante) extraction well had a significant effect on hydraulic control and chemical mass removal in Subarea 1. Also consistent with previous years, pumping of the SA1-1 extraction well had a significantly lesser effect on hydraulic control and chemical mass removal due to the location of this well in relation to the distribution of COCs, and the resultant lower COC concentrations in groundwater extracted from this well. The SA1-2 extraction well was not operated during the three-year particle tracking simulation period (WY 2011-12 – WY 2013-14. Hydraulic containment near the western edge of the COC plume is anticipated to improve with the installation of another extraction well at the VCWD Lante Treatment Plant site planned for 2016;
- The SGVWC B6 Subproject extraction wells continued to experience reduced pumping rates in WY 2013-14 due to operational problems associated with the ISEP treatment system, and the conversion of the ISEP treatment system to the One-Pass ion exchange technology. Reduced groundwater extraction from the B25A/B25B and B26A/B26B extraction wells since mid-2012 resulted in a reduced amount of hydraulic control over the three-year particle tracking simulation period as compared to previous particle tracking simulations when these wells were operating at or near target extraction rates;

- Operation of the SGVWC B5 extraction wells combined with the operation of the CDWC production wells provided significant hydraulic control in the downgradient portion of Subarea 3 during the three-year particle tracking simulation period.
- Consistent with previous years, operation of the COI 5 extraction well provided little benefit relative to hydraulic control or chemical mass removal. No particle tracks are captured by COI 5 extraction well because the well is not located within the interpreted extent of the composite COC plume described in Section 3.0 above. As a result, no particles were introduced within the capture area of this well and accordingly no particles are captured within the three-year particle tracking simulation period; and
- The operation of La Puente Valley County Water District (LPVCWD) extraction well(s) continue to provide consistent hydraulic control and chemical mass removal throughout the 3-year particle tracking simulation period.

In summary, the overall performance of project extraction wells inclusive of production wells in the CDWC Bassett wellfield, continued to limit the migration of COCs in groundwater and removed chemical mass consistent with the Performance Standards established in the PSEP.

5. CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations related to the BPOU groundwater model described in this Addendum include the following:

- Updates and recalibration of the BPOU groundwater model described in this Addendum have improved the ability of the model to simulate transient groundwater flow conditions in the BPOU and San Gabriel Basin. Comparison of simulated and observed groundwater levels indicates that the model is capable of simulating both temporal and spatial fluctuations in groundwater flow conditions in response to changes in groundwater recharge and pumping stresses. As a result, the model continues to be a useful tool for the assessment of extraction system performance;
- The groundwater model is adequately calibrated to transient aquifer conditions for the 32-year simulation period from WY 1982-83 through WY 2013-14 for the purpose of simulating transient flow conditions and assessing extraction system performance. Consistent with past years, the calibration of the BPOU groundwater model should continue to be reassessed in future Annual PE reports to ensure that the model remains appropriately calibrated to observed conditions;
- The expanded list of pumping wells added to the model should be included in future model updates. Any additional pumping wells found to be located within the model domain but not included in the model should be added during model updates. The representation of pumping wells in FEFLOW as multilevel wells should be continued;
- The application of the particle tracking simulator within FEFLOW produced appropriate particle pathline directions and lengths. Given that the FEFLOW software has transient particle tracking capabilities, it is recommended that any future particle tracking simulations should be performed directly using the FEFLOW software; and
- Overall performance of the project extraction wells inclusive of production wells in the CDWC Bassett wellfield continued to limit the migration of COCs in groundwater and removed chemical mass consistent with the Performance Standards established in the PSEP.

6. REFERENCES

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TABLES

TABLE 2-1
GROUNDWATER PRODUCTION WELLS ADDED TO BPOU GOUNDWATER MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Well ID	Well Name
8000137	Sonoco 02
8000210	SWS 201W10
8000212	SCWC HWY-2
8000213	Arcadia 3CAM
8000214	Arcadia 3LONG
8000216	CAWC B-V2
8000217	EPWC 11
8000220	SGCWD 15
EPAEW403	EPA EW4-3
EPAEW404	EPA EW4-4
EPAEW408	EPA EW4-8
EPAEW409	EPA EW4-9

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TABLE 2-2
SPREADING BASIN AND RIVER RECHARGE
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Volumes of water spread in acre-feet

	Spreading Basins														San Gabriel River				Rio Hondo	
Date/Quarter	Ben Lomond	Big Dalton	Buena Vista	Citrus	Eaton Basin	Fish Canyon	Forbes	Irwindale/ Manning	Little Dalton	Peck Road	San Gabriel Canyon	Santa Fe	Sawpit	Walnut	Morris Dam - Foothill Blvd	Foothill Blvd - Santa Fe Dam	Santa Fe Dam - Valley Blvd	Valley Blvd - Whittier Narrows	Rio Hondo at Whittier Narrows	Total
1982/Q3[a]	923	55	170	0	303	2,622	34	232	0	2,690	2,087	6,257	117	366	8,138	2,120	0	0	0	26,115
1982/Q4[b]	1,445	168	553	0	457	1,973	33	899	0	1,153	1,718	19,422	249	398	4,750	3,923	3,936	3,252	4,432	48,761
1983/Q1[c]	1,071	1,024	286	0	1,514	2,104	418	980	858	26,640	2,642	30,754	1,189	583	6,750	5,044	4,963	6,161	4,500	97,479
1983/Q2[d]	1,475	1,563	145	0	1,198	2,601	671	965	483	17,619	3,011	63,933	1,060	790	6,250	4,857	4,792	4,450	4,066	119,928
1983/Q3	600	226	369	0	312	2,604	421	0	82	5,094	2,048	10,369	429	508	7,250	4,857	3,423	3,252	4,221	46,064
1983/Q4	2,114	433	413	0	1,233	2,588	423	1,171	112	7,040	3,791	7,141	0	860	2,008	1,202	438	362	4,500	35,830
1984/Q1	726	312	287	0	65	2,091	101	382	63	2,201	3,249	9,982	403	535	2,854	1,545	553	686	4,062	30,095
1984/Q2	76	6	222	0	44	1,082	64	0	8	225	1,086	0	220	481	2,642	1,488	534	495	3,972	12,646
1984/Q3	10	21	68	0	52	1,113	2	0	0	437	92	0	96	326	3,065	1,488	381	362	4,129	11,641
1984/Q4	170	85	265	0	723	1,238	112	1,256	44	2,631	553	0	329	133	3,430	1,686	5	4	4,306	16,969
1985/Q1	747	161	144	0	141	1,061	134	858	45	474	3,832	8,468	348	236	4,875	2,167	6	7	4,500	28,204
1985/Q2	145	65	18	0	0	1,828	109	0	24	368	2,589	0	135	0	4,514	2,087	6	5	3,797	15,689
1985/Q3	0	0	14	0	56	1,769	86	0	0	453	593	0	0	430	5,236	2,087	4	4	3,867	14,598
1985/Q4	426	0	218	0	267	1,650	58	782	0	1,558	1,988	22,830	141	877	2,318	2,462	41	34	4,500	40,150
1986/Q1	1,838	331	283	250	1,820	1,415	371	2,246	291	5,896	4,144	21,080	669	878	3,294	3,166	51	64	4,500	52,586
1986/Q2	1,218	140	217	227	155	2,436	971	4,690	60	185	4,360	0	245	112	3,050	3,049	49	46	3,941	25,151
1986/Q3	146	14	111	52	124	2,358	1,199	4,070	0	903	2,008	0	59	175	3,538	3,049	35	34	4,007	21,881
1986/Q4	680	0	58	49	133	731	576	1,309	2	340	349	6,908	130	419	3,720	890	12	10	4,460	20,776
1987/Q1	574	10	101	172	390	627	82	686	8	576	3,297	13,477	132	368	5,287	1,145	15	18	4,500	31,465
1987/Q2	9	35	36	15	101	1,080	831	3,013	0	132	795	3,475	121	645	4,895	1,102	14	13	3,894	20,207
1987/Q3	0	0	49	0	168	1,045	1,139	2,706	0	92	43	0	0	289	5,678	1,102	10	10	3,772	16,102
1987/Q4	286	38	519	171	526	1,259	133	730	58	1,101	2,010	5,684	256	480	8,100	295	0	55	4,500	26,201
1988/Q1	747	142	417	156	394	1,079	151	1,113	63	931	3,655	13,339	335	368	8,016	330	137	105	4,031	35,508
1988/Q2	1,830	126	367	151	248	1,859	646	910	34	4,080	5,184	97	3	423	8,121	100	0	76	4,457	28,710
1988/Q3	669	3	236	8	86	1,799	434	946	0	102	2,469	0	19	420	1,725	405	444	55	4,458	14,278
1988/Q4	126	3	45	162	369	1,418	0	729	0	892	3,440	6,979	153	832	4,604	428	242	1,436	4,222	26,078
1989/Q1	143	213	33	131	364	1,352	250	455	90	598	2,497	18,114	332	308	8,134	2,485	727	2,720	4,500	43,446
1989/Q2	86	28	18	33	31	1,273	563	390	5	130	1,435	2,286	119	328	4,137	1,866	0	1,965	3,783	18,475
1989/Q3	7	6	16	22	92	1,333	516	566	0	90	1,069	0	0	306	2,193	1,437	0	1,436	3,941	13,031
1989/Q4	0	0	106	40	94	333	229	354	0	89	2,741	0	38	346	4,552	2,365	0	4,902	1,932	18,121
1990/Q1	230	0	142	89	561	549	117	438	11	908	5,504	5,196	209	437	7,740	569	224	13,329	3,851	40,104
1990/Q2	187	0	133	1	167	731	779	151	0	270	1,731	5,271	93	273	3,630	264	0	10,013	1,695	25,389
1990/Q3	5	0	135	5	81	581	476	0	0	10	271	3,130	27	275	11,634	371	0	10,983	2,010	29,995
1990/Q4	67	0	123	17	79	213	300	7	0	43	0	2,640	0	119	4,758	69	0	10,538	3,825	22,797
1991/Q1	166	138	352	183	868	150	364	578	130	2,707	2,974	2,216	323	430	8,239	1,024	3,976	29,104	3,909	57,831
1991/Q2	473	159	105	71	68	1,075	292	1,265	40	205	2,147	3,070	104	395	3,165	454	294	2,529	3,281	19,191
1991/Q3	430	0	202	6	69	1,211	225	4,640	0	4,264	3,071	6,493	35	279	16,513	3,407	11,220	5,928	4,332	62,324
1991/Q4	164	0	156	53	307	1,158	274	14,770	1	1,472	1,307	0	27	58	1,859	28	2,859	14,363	4,200	43,054
1992/Q1	877	340	217	204	1,381	259	203	6,440	362	12,517	3,930	20,210	622	910	6,659	14,532	20,020	7,557	4,500	101,740

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TABLE 2-2
SPREADING BASIN AND RIVER RECHARGE
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Volumes of water spread in acre-feet

	Spreading Basins														San Gabriel River				Rio Hondo	
Date/Quarter	**Ben Lomond**	**Big Dalton**	**Buena Vista**	**Citrus**	**Eaton Basin**	**Fish Canyon**	**Forbes**	**Irwindale/ Manning**	**Little Dalton**	**Peck Road**	**San Gabriel Canyon**	**Santa Fe**	**Sawpit**	**Walnut**	**Morris Dam - Foothill Blvd**	**Foothill Blvd - Santa Fe Dam**	**Santa Fe Dam - Valley Blvd**	**Valley Blvd - Whittier Narrows**	**Rio Hondo at Whittier Narrows**	**Total**
1992/Q2	1,537	76	20	157	377	644	279	11,020	199	7,752	4,300	24,020	475	480	4,720	5,695	18,140	3,316	4,500	87,706
1992/Q3	866	0	0	5	68	557	219	8,880	0	550	3,089	5,250	93	224	4,581	73	7,350	5,479	4,500	41,785
1992/Q4	1,971	0	159	250	313	180	185	3,710	0	2,374	3,139	7,363	235	1,029	9,674	5,360	11,859	6,641	4,500	58,942
1993/Q1	1,246	231	245	1,634	1,352	750	366	4,960	1,169	3,028	2,093	26,233	1,052	631	23,380	8,221	21,485	9,000	4,500	111,576
1993/Q2	1,109	372	35	958	358	2,276	703	4,200	352	3,303	238	31,510	1,025	1,117	14,260	5,809	10,958	6,904	4,490	89,977
1993/Q3	1,454	48	6	985	79	1,690	753	3,330	9	606	449	8,420	455	286	6,898	4,697	6,275	1,143	3,298	40,882
1993/Q4	1,785	0	72	1,178	178	525	313	2,452	0	1,065	0	7,110	357	281	3,740	3,435	2,176	1,703	2,669	29,038
1994/Q1	1,119	34	125	680	171	375	360	2,145	18	940	0	0	208	60	738	577	3,284	1,879	4,014	16,726
1994/Q2	1,002	108	17	55	21	395	85	1,861	10	312	1,148	13,720	332	351	3,557	2,025	6,979	2,083	3,338	37,399
1994/Q3	141	2	0	105	36	450	832	4,080	0	228	1,838	0	98	177	581	503	338	1,443	2,801	13,653
1994/Q4	495	0	39	265	101	476	124	1,036	0	1,046	3,640	0	164	337	5,019	3,826	6,426	6,426	4,500	33,920
1995/Q1	609	227	211	2,917	718	711	466	4,030	1,149	5,515	2,542	24,857	1,155	557	18,904	7,219	6,732	6,732	4,500	89,750
1995/Q2	751	297	0	2,426	504	2,131	103	1,894	569	3,949	4,257	23,536	928	186	14,031	6,770	9,420	9,420	4,454	85,626
1995/Q3	1,020	150	0	869	122	2,497	664	2,205	48	249	3,386	7,857	292	0	6,265	2,237	4,203	4,203	809	37,076
1995/Q4	1,891	30	19	187	70	1,699	508	2,120	1,840	3,387	664	0	0	0	3,280	592	759	759	1,326	19,131
1996/Q1	1,526	546	127	879	736	1,621	158	977	678	2,107	2,745	0	144	449	3,982	1,969	2,976	2,976	4,110	28,705
1996/Q2	898	296	0	721	89	2,213	401	1,931	1,577	3,364	8,536	11,862	452	184	9,730	4,615	1,759	1,759	2,156	52,543
1996/Q3	847	0	0	110	77	2,300	224	1,009	1,451	2,280	6,035	19,085	207	232	14,960	2,659	2,547	2,547	2,592	59,162
1996/Q4	942	56	87	370	555	2,054	152	1,247	11	2,327	1,056	2,420	199	366	5,710	1,988	4,194	4,194	2,124	30,051
1997/Q1	528	435	43	227	586	1,549	117	1,593	388	2,776	5,550	9,223	550	321	6,852	3,297	3,572	3,572	2,331	43,509
1997/Q2	327	58	18	62	71	1,603	559	4,577	12	2,564	941	0	240	243	3,599	353	2,434	2,434	3,388	23,483
1997/Q3	267	2	24	37	59	1,451	674	6,950	954	2,091	6,320	7,760	96	273	10,530	2,786	2,339	2,339	3,219	48,171
1997/Q4	416	5	59	140	306	811	164	2,694	0	1,008	6,015	5,195	51	458	8,435	5,464	2,140	2,140	2,227	37,728
1998/Q1	632	446	257	1,409	795	990	357	1,913	370	4,756	6,280	8,688	270	504	8,111	7,710	5,447	5,447	3,625	58,006
1998/Q2	805	750	52	1,299	316	2,063	328	3,063	657	7,411	3,920	39,490	705	242	16,306	3,291	10,146	10,146	1,621	102,610
1998/Q3	0	350	10	1,075	72	1,918	326	3,241	199	2,803	1,090	12,860	709	418	11,032	2,732	1,981	1,981	1,547	44,344
1998/Q4	0	0	32	128	197	1,668	56	1,053	102	238	1,518	0	327	232	1,668	7,900	1,153	1,153	1,078	18,502
1999/Q1	0	43	54	223	187	1,382	159	1,400	1,898	915	1,848	0	435	226	785	200	1,317	1,317	2,467	14,856
1999/Q2	0	0	32	857	158	1,494	189	3,363	1,699	224	5,670	0	147	172	1,313	2,335	1,528	1,528	3,193	23,902
1999/Q3	2,397	37	19	525	53	1,587	439	4,850	147	332	5,130	0	0	318	1,823	5,025	1,457	1,457	3,067	28,663
1999/Q4	1,356	0	8	821	128	975	0	1,335	705	333	8,660	131	11	180	1,231	615	3,051	3,051	3,125	25,716
2000/Q1	341	89	54	70	607	823	43	744	1,212	2,786	11,070	554	134	565	1,298	4,344	5,842	5,842	2,081	38,499
2000/Q2	1,262	124	84	88	236	1,179	161	1,620	243	732	8,860	928	113	432	1,550	5,943	5,056	5,056	1,035	34,702
2000/Q3	2,624	0	17	119	101	1,337	443	3,450	218	180	4,250	9,162	138	238	2,240	3,362	2,487	2,487	2,242	35,095
2000/Q4	211	0	41	63	175	1,031	180	2,032	1,683	335	6,972	18,230	127	537	4,605	2,905	3,760	3,760	4,108	50,754
2001/Q1	191	0	103	660	852	1,252	54	1,296	990	3,340	1,994	576	115	1,377	1,146	1,143	4,159	4,159	3,425	26,831
2001/Q2	165	137	37	153	399	1,901	0	109	51	677	3,291	0	142	446	1,328	430	2,898	2,898	1,533	16,594
2001/Q3	0	113	67	0	337	1,556	0	0	0	202	10,360	7,690	89	322	4,249	2,305	3,340	3,340	1,039	35,009
2001/Q4	0	0	76	124	423	1,581	0	114	1,315	732	8,320	10,685	101	258	6,371	4,071	6,518	6,518	4,500	51,707

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TABLE 2-2
SPREADING BASIN AND RIVER RECHARGE
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Volumes of water spread in acre-feet

	Spreading Basins														San Gabriel River				Rio Hondo	
Date/Quarter	**Ben Lomond**	**Big Dalton**	**Buena Vista**	**Citrus**	**Eaton Basin**	**Fish Canyon**	**Forbes**	**Irwindale/ Manning**	**Little Dalton**	**Peck Road**	**San Gabriel Canyon**	**Santa Fe**	**Sawpit**	**Walnut**	**Morris Dam - Foothill Blvd**	**Foothill Blvd - Santa Fe Dam**	**Santa Fe Dam - Valley Blvd**	**Valley Blvd - Whittier Narrows**	**Rio Hondo at Whittier Narrows**	**Total**
2002/Q1	77	2	100	142	266	1,093	0	10	455	561	5,871	0	188	476	1,248	123	5,828	5,828	4,500	26,768
2002/Q2	2,219	0	38	101	170	303	138	3,420	968	118	11,010	448	168	294	3,378	131	1,723	1,723	4,397	30,747
2002/Q3	3,029	0	22	25	193	199	260	3,730	0	112	5,532	0	93	347	3,076	25	1,937	1,937	4,500	25,017
2002/Q4	1,179	0	68	0	384	121	405	2,396	560	1,099	11,670	1,189	102	738	1,817	1,587	839	839	4,500	29,493
2003/Q1	0	0	150	26	604	440	0	296	4	2,629	2,907	1,684	244	381	2,088	794	634	634	3,708	17,222
2003/Q2	1,205	0	172	3	247	1,053	0	1,700	52	748	9,690	7,395	190	707	5,771	351	351	351	4,096	34,082
2003/Q3	2,917	0	65	0	90	622	462	5,260	4	1,837	9,310	21,120	48	461	6,056	1,560	171	171	2,443	52,596
2003/Q4	697	0	101	51	246	512	244	2,082	794	975	8,810	18,785	12	423	4,694	605	915	915	4,500	45,360
2004/Q1	133	4	199	144	438	976	168	1,718	849	1,879	6,522	20,347	128	770	4,777	467	491	491	4,500	45,001
2004/Q2	0	22	116	95	118	820	0	1,789	293	302	3,808	0	118	592	2,122	11	1,420	1,420	4,500	17,545
2004/Q3	1,833	0	42	0	128	1,113	164	1,945	0	220	5,654	0	0	360	2,219	0	1,953	1,953	4,500	22,083
2004/Q4	730	26	107	452	598	1,783	257	1,778	0	3,962	8,920	29	9	790	2,013	611	3,499	3,499	6,172	35,235
2005/Q1	2,251	676	89	1,806	1,147	1,142	353	3,938	0	33,190	7,660	38,690	1,139	702	37,384	13,064	41,013	41,013	23,255	248,511
2005/Q2	2,124	413	31	693	438	2,287	616	2,807	288	5,753	5,880	50,860	882	1,055	14,022	4,506	5,388	5,388	6,774	110,204
2005/Q3	3,055	663	21	160	281	2,071	401	3,299	66	407	8,570	25,740	410	714	6,175	1,965	1,775	1,775	1,343	58,890
2005/Q4	634	44	32	244	315	1,627	204	2,022	310	896	8,170	17,783	205	475	10,440	4,061	4,854	4,854	4,630	61,800
2006/Q1	232	84	46	535	889	1,241	82	762	48	1,146	6,520	19,140	137	382	7,836	3,048	2,677	2,677	9,631	57,112
2006/Q2	2,871	1,138	1,352	1,032	628	1,636	327	2,543	0	1,630	8,630	29,333	418	753	14,783	5,749	4,640	4,640	7,536	89,638
2006/Q3	184	292	51	643	868	1,913	50	1,580	0	774	9,560	3,373	124	425	6,111	2,376	3,453	3,453	2,168	37,397
2006/Q4	500	0	42	445	166	1,809	49	210	0	745	9,060	1,981	0	367	3,252	1,094	2,807	2,807	3,963	29,296
2007/Q1	23	315	35	361	793	726	6	371	167	911	3,011	0	50	553	1,365	112	4,200	4,200	3,373	20,572
2007/Q2	0	99	27	275	117	555	0	418	0	814	4,768	0	0	445	1,153	111	4,920	4,920	2,039	20,660
2007/Q3	0	0	21	38	66	178	0	278	40	567	1,051	0	0	328	848	65	3,539	3,539	4,491	15,048
2007/Q4	26	4	51	193	73	541	8	651	1	724	3,861	0	88	401	765	67	1,671	1,671	3,557	14,353
2008/Q1	373	401	75	315	491	1,792	82	518	151	1,622	6,690	1,876	316	553	3,069	759	2,072	2,072	8,135	31,361
2008/Q2	1,776	139	17	177	74	1,363	128	66	68	969	533	39	122	572	2,605	222	821	821	4,969	15,481
2008/Q3	0	0	9	37	38	1,611	0	37	0	946	6,610	605	17	262	19,726	4,827	5,521	5,521	6,820	52,586
2008/Q4	243	42	16	195	269	1,189	15	0	4	1,326	6,394	0	0	157	2,444	191	2,143	2,143	7,877	24,647
2009/Q1	145	272	12	273	453	1,708	45	27	390	1,809	4,546	26	108	236	1,293	859	2,880	2,880	6,140	24,101
2009/Q2	0	229	0	132	222	1,586	0	348	0	124	5,411	0	45	308	850	17	2,427	2,427	1,217	15,342
2009/Q3	0	0	0	25	106	1,440	0	0	0	4,249	11,015	0	18	49	5,703	339	3,376	3,376	3,828	33,523
2009/Q4	43	0	0	0	206	1,166	31	358	13	980	5,959	0	4	175	1,083	1,083	2,109	2,109	10,684	26,003
2010/Q1	372	114	0	303	593	1,957	45	2,103	135	3,182	5,660	3,780	8	451	6,412	6,412	6,134	6,134	7,637	51,431
2010/Q2	1,004	113	0	586	214	2,235	448	3,353	1,057	1,784	5,290	22,380	163	205	15,586	15,586	7,801	7,801	5,905	91,510
2010/Q3	139	0	0	32	64	1,712	0	9,450	0	1,552	5,093	6,650	88	72	9,497	9,497	4,244	4,244	2,309	54,643
2010/Q4	598	3	0	671	380	1,216	76	1,722	1,377	4,143	6,790	16,950	13	127	18,890	18,863	3,358	3,358	14,601	93,135
2011/Q1	283	780	0	710	597	1,706	263	3,299	476	4,225	5,260	29,210	107	426	10,395	11,430	2,117	2,117	12,828	86,228
2011/Q2	726	1,200	0	1,557	524	1,676	496	3,614	512	6,260	6,550	19,180	465	437	14,523	14,611	7,837	7,837	4,423	92,428
2011/Q3	1,451	174	0	902	127	1,881	59	5,750	169	1,950	7,340	14,000	0	41	11,277	7,688	6,273	6,273	5,101	70,456

Geosyntec consultants

TABLE 2-2
SPREADING BASIN AND RIVER RECHARGE
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Volumes of water spread in acre-feet

	Spreading Basins														San Gabriel River				Rio Hondo	
Date/Quarter	Ben Lomond	Big Dalton	Buena Vista	Citrus	Eaton Basin	Fish Canyon	Forbes	Irwindale/ Manning	Little Dalton	Peck Road	San Gabriel Canyon	Santa Fe	Sawpit	Walnut	Morris Dam - Foothill Blvd	Foothill Blvd - Santa Fe Dam	Santa Fe Dam - Valley Blvd	Valley Blvd - Whittier Narrows	Rio Hondo at Whittier Narrows	Total
2011/Q4	445	0	0	26	169	1,480	123	3,049	662	2,859	5,009	11,690	0	150	13,077	3,005	709	709	8,656	51,818
2012/Q1	62	0	0	146	307	1,165	0	479	125	1,520	3,061	191	95	168	2,725	137	1,450	1,450	5,811	18,892
2012/Q2	890	407	0	955	266	1,243	144	1,096	71	1,369	7,830	0	158	245	1,450	53	2,642	2,642	1,909	23,370
2012/Q3	2,791	125	0	1,466	164	1,516	8	359	2,253	4	1,216	642	2,711	0	1,828	138	760	13	3,961	19,955
2012/Q4	591	0	172	174	313	838	1,266	0	3,831	208	9,515	644	10,970	4,305	1,897	308	1,206	42	5,823	42,102
2013/Q1	0	17	0	169	274	704	33	0	140	63	1,395	895	3,936	0	932	183	1,463	92	2,855	13,151
2013/Q2	0	44	0	37	81	394	21	60	27	133	1,650	594	7,150	0	1,567	171	845	90	2,623	15,486
2013/Q3	0	0	0	19	53	264	0	0	35	354	4,519	0	86	49	1,059	26	1,125	1,715	1,500	10,804
2013/Q4	0	0	0	85	95	291	0	373	654	267	3,599	9,440	135	74	14,101	1,304	575	575	4,999	36,566
2014/Q1	141	0	0	301	307	86	7	207	274	502	1,370	0	159	134	4,756	559	734	734	6,055	16,325
2014/Q2	0	0	0	148	93	398	0	148	0	475	247	0	31	121	945	57	1,610	1,610	2,390	8,272

Notes:

a. Q3 = Third quarter; July, August, September
b. Q4 = Fourth quarter; October, November, December
c. Q1 = First quarter; January, February, March
d. Q2 = Second quarter; April, May, June
Recharge values obtained from Los Angeles County Department of Public Works.

Geosyntec consultants

TABLE 2-3
PRECIPITATION AND RETURN FLOW RECHARGE
GROUNDWATER FLOW MODEL

Baldwin Park Operable Unit

San Gabriel Valley, California

		Recharge Zone 1 Area = 2,464 acres	Recharge Zone 2 Area = 19,585 acres	Recharge Zone 3 Area = 31,675 acres	Recharge Zone 4 Area = 19,667 acres	Recharge Zone 5 Area = 11,375 acres	Recharge Zone 6 Area = 5,858 acres	Recharge Zone 7 Area = 2,962 acres	Recharge Zone 8 Area = 463 acres	Recharge Zone 9 Area = 6 acres	Total Model Domain Area = 94,054 acres
Stress Period	Average Precipitation [1] (in/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)
1982/Q3 [2]	1.95	204	2,081	3,284	2,090	1,238	653	282	45	0.6	9877
1982/Q4 [3]	8.70	514	5,232	8,255	5,254	3,113	1,641	708	113	1.5	24831
1983/Q1 [4]	24.85	1,304	13,282	20,958	13,338	7,902	4,166	1797	287	3.9	63038
1983/Q2 [5]	5.81	374	3,806	6,005	3,822	2,265	1,194	515	82	1.1	18063
1983/Q3	3.30	274	2,788	4,399	2,799	1,659	875	377	60	0.8	13231
1983/Q4	9.12	534	5,440	8,583	5,463	3,237	1,707	736	118	1.6	25819
1984/Q1	0.75	111	1,131	1,784	1,136	673	355	153	24	0.3	5367
1984/Q2	0.53	133	1,354	2,136	1,360	806	425	183	29	0.4	6427
1984/Q3	1.08	172	1,747	2,756	1,755	1,040	548	236	38	0.5	8292
1984/Q4	10.37	609	6,201	9,783	6,226	3,689	1,945	839	134	1.8	29428
1985/Q1	4.23	278	2,832	4,469	2,844	1,685	888	383	61	0.8	13441
1985/Q2	0.27	115	1,171	1,848	1,176	697	367	158	25	0.3	5558
1985/Q3	0.34	135	1,376	2,171	1,382	819	432	186	30	0.4	6531
1985/Q4	5.62	370	3,765	5,940	3,781	2,240	1,181	509	81	1.1	17868
1986/Q1	15.07	825	8,402	13,257	8,437	4,999	2,636	1137	181	2.5	39877
1986/Q2	0.93	151	1,535	2,422	1,542	914	482	208	33	0.4	7286
1986/Q3	2.54	246	2,508	3,957	2,518	1,492	787	339	54	0.7	11902
1986/Q4	2.21	197	2,006	3,165	2,014	1,193	629	271	43	0.6	9520
1987/Q1	6.70	411	4,183	6,600	4,200	2,489	1,312	566	90	1.2	19852
1987/Q2	0.50	135	1,375	2,168	1,380	818	431	186	30	0.4	6523
1987/Q3	0.22	127	1,289	2,034	1,294	767	404	174	28	0.4	6117
1987/Q4	9.21	551	5,615	8,860	5,638	3,341	1,761	760	121	1.6	26648
1988/Q1	5.13	338	3,441	5,430	3,455	2,047	1,079	466	74	1.0	16332
1988/Q2	3.52	280	2,848	4,494	2,859	1,694	893	385	62	0.8	13516
1988/Q3	0.27	130	1,323	2,088	1,329	787	415	179	29	0.4	6280
1988/Q4	6.76	432	4,398	6,939	4,416	2,617	1,379	595	95	1.3	20871
1989/Q1	5.57	350	3,564	5,624	3,579	2,121	1,118	482	77	1.0	16916
1989/Q2	0.29	116	1,178	1,858	1,183	701	370	159	25	0.3	5589
1989/Q3	0.63	147	1,502	2,370	1,508	894	471	203	32	0.4	7129
1989/Q4	1.10	150	1,528	2,410	1,534	909	479	207	33	0.4	7250
1990/Q1	7.83	470	4,784	7,549	4,804	2,846	1,501	647	103	1.4	22704
1990/Q2	2.80	238	2,420	3,818	2,430	1,440	759	327	52	0.7	11483
1990/Q3	0.11	118	1,204	1,900	1,209	716	378	163	26	0.4	5713
1990/Q4	0.61	125	1,272	2,007	1,277	757	399	172	27	0.4	6036
1991/Q1	17.05	922	9,390	14,817	9,430	5,587	2,946	1270	203	2.7	44567

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TABLE 2-3
PRECIPITATION AND RETURN FLOW RECHARGE
GROUNDWATER FLOW MODEL

Baldwin Park Operable Unit

San Gabriel Valley, California

		Recharge Zone 1 Area = 2,464 acres	Recharge Zone 2 Area = 19,585 acres	Recharge Zone 3 Area = 31,675 acres	Recharge Zone 4 Area = 19,667 acres	Recharge Zone 5 Area = 11,375 acres	Recharge Zone 6 Area = 5,858 acres	Recharge Zone 7 Area = 2,962 acres	Recharge Zone 8 Area = 463 acres	Recharge Zone 9 Area = 6 acres	Total Model Domain Area = 94,054 acres
Stress Period	Average Precipitation [1] (in/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)	Recharge Volume: Return Flow and Precipitation (ac-ft/qtr)
1991/Q2	0.15	89	903	1,426	907	538	283	122	20	0.3	4288
1991/Q3	0.15	102	1,043	1,646	1,048	621	327	141	23	0.3	4952
1991/Q4	4.00	285	2,900	4,576	2,912	1,726	910	392	63	0.8	13764
1992/Q1	19.83	890	9,069	14,309	9,106	5,395	2,845	1472	235	3.2	43324
1992/Q2	0.45	91	931	1,469	935	554	292	151	24	0.3	4447
1992/Q3	0.62	116	1,181	1,863	1,186	703	370	192	31	0.4	5642
1992/Q4	8.97	450	4,580	7,226	4,599	2,725	1,437	743	119	1.6	21879
1993/Q1	29.72	1,555	15,842	24,996	15,908	9,425	4,969	2143	342	4.6	75186
1993/Q2	1.36	166	1,688	2,663	1,695	1,004	529	228	36	0.5	8010
1993/Q3	0.01	113	1,153	1,819	1,158	686	362	156	25	0.3	5472
1993/Q4	2.54	215	2,185	3,448	2,195	1,300	686	296	47	0.6	10372
1994/Q1	7.65	454	4,620	7,290	4,639	2,749	1,449	625	100	1.4	21928
1994/Q2	2.04	196	1,993	3,145	2,002	1,186	625	270	43	0.6	9461
1994/Q3	0.00	120	1,224	1,931	1,229	728	384	166	26	0.4	5810
1994/Q4	2.73	225	2,297	3,623	2,306	1,366	721	311	50	0.7	10900
1995/Q1	28.38	1,490	15,183	23,957	15,247	9,033	4,763	2054	328	4.4	72060
1995/Q2	2.54	222	2,261	3,568	2,271	1,346	709	306	49	0.7	10732
1995/Q3	0.12	129	1,313	2,072	1,318	781	412	178	28	0.4	6231
1995/Q4	1.39	167	1,701	2,685	1,708	1,013	534	230	37	0.5	8075
1996/Q1	15.84	882	8,987	14,180	9,025	5,347	2,819	1216	194	2.6	42653
1996/Q2	0.85	153	1,558	2,459	1,565	927	489	211	34	0.5	7396
1996/Q3	0.01	126	1,284	2,026	1,289	764	403	174	28	0.4	6094
1996/Q4	9.82	596	6,072	9,581	6,098	3,613	1,905	821	131	1.8	28818
1997/Q1	7.89	479	4,884	7,706	4,904	2,906	1,532	661	105	1.4	23178
1997/Q2	0.25	126	1,288	2,031	1,293	766	404	174	28	0.4	6110
1997/Q3	0.78	166	1,695	2,675	1,702	1,009	532	229	37	0.5	8046
1997/Q4	6.01	400	4,075	6,430	4,092	2,425	1,278	551	88	1.2	19342
1998/Q1	24.76	1,313	13,373	21,100	13,428	7,956	4,195	1809	289	3.9	63466
1998/Q2	6.17	404	4,115	6,493	4,132	2,448	1,291	557	89	1.2	19529
1998/Q3	1.01	176	1,794	2,831	1,802	1,067	563	243	39	0.5	8515
1998/Q4	2.05	197	2,002	3,160	2,011	1,191	628	271	43	0.6	9504
1999/Q1	4.14	285	2,899	4,573	2,911	1,725	909	392	63	0.8	13758
1999/Q2	3.63	281	2,863	4,518	2,875	1,704	898	387	62	0.8	13590
1999/Q3	0.06	127	1,297	2,047	1,302	772	407	175	28	0.4	6156
1999/Q4	0.35	123	1,257	1,984	1,263	748	394	170	27	0.4	5967

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TABLE 2-3
PRECIPITATION AND RETURN FLOW RECHARGE
GROUNDWATER FLOW MODEL

Baldwin Park Operable Unit

San Gabriel Valley, California

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2000/Q1	11.78	679	6,913	10,908	6,942	4,113	2,169	935	149	2.0	32811
2000/Q2	2.66	243	2,475	3,905	2,485	1,472	776	335	53	0.7	11744
2000/Q3	0.31	143	1,457	2,298	1,463	867	457	197	31	0.4	6913
2000/Q4	1.19	160	1,627	2,568	1,634	968	510	220	35	0.5	7724
2001/Q1	13.12	737	7,504	11,841	7,535	4,464	2,354	1015	162	2.2	35614
2001/Q2	2.03	85	861	1,359	865	512	270	291	47	0.6	4291
2001/Q3	0.05	51	515	812	517	306	161	174	28	0.4	2564
2001/Q4	3.84	116	1,181	1,862	1,185	702	370	399	64	0.9	5881
2002/Q1	2.60	85	865	1,365	869	515	271	293	47	0.6	4311
2002/Q2	0.46	50	508	801	510	302	159	172	27	0.4	2529
2002/Q3	0.09	48	485	766	487	289	152	164	26	0.4	2418
2002/Q4	6.65	173	1,761	2,779	1,768	1,048	553	596	95	1.3	8774
2003/Q1	10.18	236	2,405	3,793	2,415	1,430	754	813	130	1.8	11978
2003/Q2	3.16	102	1,036	1,634	1,040	616	325	350	56	0.8	5159
2003/Q3	0.09	48	487	768	489	289	153	165	26	0.4	2424
2003/Q4	3.75	114	1,157	1,825	1,162	688	363	391	62	0.8	5763
2004/Q1	8.35	203	2,072	3,268	2,080	1,232	650	630	101	1.4	10238
2004/Q2	0.87	61	620	978	622	369	194	189	30	0.4	3063
2004/Q3	0.00	47	482	761	484	287	151	147	23	0.3	2384
2004/Q4	16.18	367	3,734	5,892	3,750	2,222	1,171	1137	181	2.5	18457
2005/Q1	30.52	642	6,537	10,313	6,564	3,889	2,050	1989	318	4.3	32306
2005/Q2	1.68	75	764	1,206	767	455	240	233	37	0.5	3777
2005/Q3	0.33	55	562	887	565	335	176	171	27	0.4	2779
2005/Q4	2.69	93	951	1,500	955	565	298	289	46	0.6	4698
2006/Q1	9.58	224	2,280	3,597	2,289	1,356	715	694	111	1.5	11267
2006/Q2	5.47	149	1,516	2,393	1,523	902	476	462	74	1.0	7494
2006/Q3	0.03	51	523	824	525	311	164	159	25	0.3	2582
2006/Q4	0.92	59	598	943	600	355	187	182	29	0.4	2953
2007/Q1	3.19	101	1,026	1,619	1,030	610	322	312	50	0.7	5071
2007/Q2	1.13	67	687	1,084	690	409	215	209	33	0.5	3395
2007/Q3	0.98	69	698	1,102	701	415	219	213	34	0.5	3452
2007/Q4	3.74	113	1,148	1,811	1,153	683	360	349	56	0.8	5673
2008/Q1	12.01	277	2,818	4,447	2,830	1,677	884	858	137	1.9	13928
2008/Q2	1.06	65	665	1,050	668	396	209	202	32	0.4	3287
2008/Q3	0.11	48	488	770	490	290	153	148	24	0.3	2412

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GROUNDWATER FLOW MODEL

Baldwin Park Operable Unit

San Gabriel Valley, California

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2008/Q4	5.62	151	1,541	2,432	1,548	917	484	469	75	1.0	7618
2009/Q1	8.32	196	2,000	3,155	2,008	1,190	627	609	97	1.3	9883
2009/Q2	0.29	45	462	729	464	275	145	141	22	0.3	2283
2009/Q3	0.00	46	465	733	467	276	146	141	23	0.3	2297
2009/Q4	5.40	145	1,477	2,330	1,483	879	463	449	72	1.0	7299
2010/Q1	14.29	312	3,182	5,020	3,195	1,893	998	968	155	2.1	15725
2010/Q2	1.86	74	756	1,193	759	450	237	230	37	0.5	3737
2010/Q3	0.02	43	439	692	440	261	138	134	21	0.3	2168
2010/Q4	17.99	399	4,060	6,406	4,077	2,415	1,274	1236	197	2.7	20066
2011/Q1	9.30	213	2,170	3,424	2,179	1,291	681	660	105	1.4	10725
2011/Q2	0.62	48	486	768	489	290	153	148	24	0.3	2405
2011/Q3	0.05	44	445	702	446	264	140	135	22	0.3	2197
2011/Q4	4.38	119	1,212	1,912	1,217	721	380	369	59	0.8	5990
2012/Q1	5.05	130	1,323	2,088	1,329	788	415	403	64	0.9	6541
2012/Q2	2.88	94	960	1,515	964	571	301	292	47	0.6	4745
2012/Q3	0.16	48	484	764	486	288	152	147	24	0.3	2393
2012/Q4	4.97	144	1,471	2,320	1,477	875	461	448	71	1.0	7269
2013/Q1	3.21	101	1,026	1,620	1,031	611	322	312	50	0.7	5074
2013/Q2	0.86	50	512	808	514	305	161	156	25	0.3	2531
2013/Q3	0.01	47	483	762	485	287	151	147	23	0.3	2386
2013/Q4	1.49	25	253	399	254	151	79	77	12	0.2	1251
2014/Q1	3.58	71	719	1,135	722	428	226	219	35	0.5	3556
2014/Q2	0.50	51	519	819	521	309	163	158	25	0.3	2564

Notes:

Recharge zones represent precipitation areas in California Department of Water Resources (DWR) Bulletin No. 104-2, Appendix A: Geohydrology, 1966. Precipitation zones are characterized by the measured long-term average annual precipitation amounts.

Recharge volumes represent the total recharge rate from precipitation and irrigated return flows over the area of each recharge zone in the groundwater flow model.

1. Average quarterly precipitation calculated from daily precipitation totals measured at 14 stations in the San Gabriel Basin. Daily measurements provided by Los Angeles County Department of Public Works.
2. Q3 = Third quarter: July, August, September
3. Q4 = Fourth quarter: October, November, December
4. Q1 = First quarter: January, February, March
4. Q2 = Second quarter: April, May, June

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TABLE 2-4
LIST OF WELLS INCLUDED IN
MODEL CALIBRATION STATISTICS
Baldwin Park Operable Unit
San Gabriel Valley, California

BPOU		Basinwide			
Full List	Modified List	Full List		Modified List	
Well ID	Well ID	Well ID	Well ID	Well ID	Well ID
01900029	01900029	01900018	EPAMW61-6	01900018	EPAMW61-6
01900031	01900031	01900029	PZ1-3BD	01900029	PZ1-3BD
01900034	01900034	01900031	PZ1-3BS	01900031	PZ1-3BS
01900035	01900035	01900034	PZ3-1BD	01900034	PZ3-1BD
01900881	01900881	01900035	PZ3-1BS	01900035	PZ3-1BS
01902113	01902113	01900357	V10AMMW1	01900357	V10AMMW1
08000039	08000039	01900358	W11AZW01	01900358	W11AZW01
11900038	11900038	01900881	W11AZW02	01900881	W11AZW02
61900718	61900718	01900918	W11AZW03	01900918	W11AZW03
BPW503_1	BPW503_1	01900934	W11AZW06	01900934	W11AZW06
BPW503_2	BPW503_2	01901685	W11AZW1R	01901685	W11AZW1R
BPW503_3	BPW503_3	01901694	W11AZW2R	01901694	W11AZW2R
BPW503_4	BPW503_4	01902077	Z1000001	01902077	Z1000001
BPW503_5	BPW503_5	01902113	Z1000002	01902113	Z1000002
BPW503_6	BPW503_6	01902271	Z1000003	01902271	Z1000003
BPW503_7	BPW503_7	01902272	Z1000005	01902272	Z1000005
BPW503_8	BPW503_8	01902358	Z1000006	01902358	Z1000006
BPW503_9	BPW503_9	01902458	Z1000007	01902458	Z1000007
BPW520_1	BPW520_1	01902529	Z1000008	01902529	Z1000008
BPW520_2	BPW520_2	01902666	Z1000009	01902666	Z1000009
BPW520_4	BPW520_4	08000039	Z1000011	08000039	Z1000011
BPW520_5	BPW520_5	11900038	08000060	11900038	
BPW520_6	BPW520_6	11900880	01903019	11900880	
BPW520_7	BPW520_7	31900736	01902792	31900736	
BPW523_1	BPW523_1	31902819	01902115	31902819	
BPW523_2	BPW523_2	61900718	01902034	61900718	
BPW523_3	BPW523_3	BPW503 Port 1	01902027	BPW503 Port 1	
BPW523_4	BPW523_4	BPW503 Port 2	01901749	BPW503 Port 2	
BPW523_5	BPW523_5	BPW503 Port 3	01901692	BPW503 Port 3	
BPW523_6	BPW523_6	BPW503 Port 4	01901460	BPW503 Port 4	
PZ1-3BD	PZ1-3BD	BPW503 Port 5	01901014	BPW503 Port 5	
PZ1-3BS	PZ1-3BS	BPW503 Port 6	01900926	BPW503 Port 6	
PZ3-1BD	PZ3-1BD	BPW503 Port 7	01900885	BPW503 Port 7	
PZ3-1BS	PZ3-1BS	BPW503 Port 8	01900883	BPW503 Port 8	
W11AZW01	W11AZW01	BPW503 Port 9	01900829	BPW503 Port 9	
W11AZW02	W11AZW02	BPW520 Port 1	01900828	BPW520 Port 1	
W11AZW03	W11AZW03	BPW520 Port 2	01900725	BPW520 Port 2	
W11AZW06	W11AZW06	BPW520 Port 4	01900510	BPW520 Port 4	
W11AZW1R	W11AZW1R	BPW520 Port 5	01900355	BPW520 Port 5	
W11AZW2R	W11AZW2R	BPW520 Port 6	01900354	BPW520 Port 6	
Z1000006	Z1000006	BPW520 Port 7	01900028	BPW520 Port 7	
08000060		BPW523 Port 1	01900014	BPW523 Port 1	
01901460		BPW523 Port 2		BPW523 Port 2	
01900885		BPW523 Port 3		BPW523 Port 3	
01900883		BPW523 Port 4		BPW523 Port 4	
01900354		BPW523 Port 5		BPW523 Port 5	
01900028		BPW523 Port 6		BPW523 Port 6	

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TABLE 2-5
UPDATED MODEL CALIBRATION STATISTICS SUMMARY
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

	Basinwide		BPOU	
	Full List	**Modified List**	**Full List**	**Modified List**
Number of observations	9,808	8,010	6051	5262
Average residual	-0.38	0.08	-0.10	-0.51
Average absolute residual	8.91	7.63	4.66	4.24
Minimum residual	-176.19	-81.99	-47.16	-29.85
Maximum residual	157.53	157.53	67.16	39.66
Standard deviation from mean	18.41	15.52	6.68	5.60
Sum of squared residuals	3,327,017	1,929,062	270,099	166,236
Root mean square error (RMSE)	18.42	15.52	6.68	5.62
Observed range	827.90	790.70	218.21	144.65
Standard deviation / observed range	0.02	0.02	0.03	0.04

Notes:
Refer to Table 2-4 for a listing of wells included in the full and modified lists.

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TABLE 2-6
ANNUAL WATER BALANCE
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

fluxes in acre-feet/year

	Model Inflows												Model Outflows			
	Boundaries								Recharge				Boundaries			
Water Year[a]	Raymond Fault	Puente	Sawpit Canyon	N. boundary bedrock	San Gabriel Canyon	Dalton Canyon	San Dimas	**Total Boundaries**	Precipitation	Spreading	**Total Recharge**	**Total Inflow**	Whittier Narrows	**Pumping**	**Total Outflow**	**Change in Storage**
1982-83	4,433	652	2,143	2,829	3,096	1,052	22,667	**36,872**	115,809	292,283	**408,092**	**444,964**	-32,332	**-192,377**	**-224,709**	**220,255**
1983-84	5,368	643	3,295	3,757	4,497	2,382	24,005	**43,948**	50,844	124,635	**175,479**	**219,427**	-57,912	**-216,008**	**-273,920**	**-54,493**
1984-85	5,599	673	3,586	3,747	6,293	3,210	19,659	**42,768**	56,719	72,502	**129,221**	**171,989**	-43,658	**-224,002**	**-267,659**	**-95,670**
1985-86	5,918	624	2,506	3,748	4,648	1,716	20,733	**39,892**	71,562	132,484	**204,046**	**243,939**	-33,306	**-228,635**	**-261,941**	**-18,002**
1986-87	6,124	613	2,134	3,747	4,157	1,902	19,487	**38,165**	47,798	94,328	**142,126**	**180,291**	-26,119	**-235,401**	**-261,520**	**-81,230**
1987-88	6,448	635	2,060	3,757	2,957	2,000	19,004	**36,861**	62,613	106,521	**169,135**	**205,996**	-17,642	**-233,630**	**-251,272**	**-45,276**
1988-89	6,676	666	2,016	3,747	1,923	2,023	19,655	**36,705**	49,656	102,277	**151,933**	**188,639**	-19,411	**-231,960**	**-251,371**	**-62,732**
1989-90	6,987	782	2,018	3,747	2,697	2,304	19,518	**38,053**	48,566	96,644	**145,211**	**183,263**	-19,961	**-238,045**	**-258,006**	**-74,743**
1990-91	7,200	821	2,038	3,747	1,922	2,274	19,536	**37,539**	60,604	129,813	**190,417**	**227,956**	-35,342	**-220,372**	**-255,713**	**-27,757**
1991-92	7,113	842	2,045	3,757	846	2,052	22,957	**39,613**	66,487	294,824	**361,311**	**400,923**	-26,184	**-199,098**	**-225,283**	**175,641**
1992-93	6,583	751	1,958	3,747	1,265	1,646	24,389	**40,341**	110,716	302,280	**412,996**	**453,337**	-39,133	**-213,340**	**-252,473**	**200,864**
1993-94	6,205	797	1,963	3,747	364	1,890	22,285	**37,251**	47,232	124,045	**171,277**	**208,529**	-38,609	**-221,230**	**-259,839**	**-51,310**
1994-95	6,236	734	1,964	3,747	1,736	1,747	22,020	**38,184**	99,501	222,949	**322,450**	**360,634**	-41,156	**-225,464**	**-266,620**	**94,014**
1995-96	6,136	663	1,966	3,757	546	748	20,916	**34,733**	64,355	137,455	**201,810**	**236,543**	-30,643	**-248,578**	**-279,221**	**-42,678**
1996-97	6,231	643	1,959	3,747	718	581	20,286	**34,165**	64,200	156,205	**220,405**	**254,570**	-18,830	**-257,084**	**-275,914**	**-21,344**
1997-98	6,310	539	1,958	3,747	1,023	1,010	20,228	**34,815**	110,384	246,515	**356,899**	**391,714**	-20,211	**-233,714**	**-253,925**	**137,789**
1998-99	6,177	535	1,956	3,747	309	670	20,567	**33,961**	45,367	101,604	**146,971**	**180,932**	-21,406	**-241,964**	**-263,370**	**-82,438**
1999-00	6,436	634	1,960	3,757	131	668	19,125	**32,712**	56,678	127,580	**184,258**	**216,971**	-13,840	**-262,049**	**-275,888**	**-58,917**
2000-01	6,579	652	1,956	3,747	217	950	19,356	**33,457**	54,542	129,274	**183,816**	**217,273**	-12,428	**-252,347**	**-264,775**	**-47,502**
2001-02	6,751	831	1,957	3,747	362	1,283	19,948	**34,880**	15,284	144,231	**159,515**	**194,395**	-13,252	**-247,304**	**-260,556**	**-66,160**
2002-03	7,030	1,014	1,958	3,747	297	1,808	19,936	**35,792**	28,329	105,814	**134,143**	**169,934**	-5,289	**-228,161**	**-233,451**	**-63,516**
2003-04	7,207	1,167	1,965	3,757	399	1,929	21,447	**37,870**	21,488	160,502	**181,990**	**219,860**	-1,355	**-242,848**	**-244,203**	**-24,343**
2004-05	7,151	1,203	1,960	3,747	1,324	1,767	22,777	**39,930**	56,923	416,033	**472,956**	**512,886**	-33,688	**-232,301**	**-265,989**	**246,898**
2005-06	6,622	1,313	1,958	3,747	860	1,226	23,511	**39,237**	26,239	267,440	**293,679**	**332,916**	-33,074	**-238,577**	**-271,650**	**61,266**
2006-07	6,594	1,449	1,957	3,747	193	1,610	21,839	**37,389**	14,001	107,925	**121,926**	**159,315**	-15,404	**-264,184**	**-279,587**	**-120,273**
2007-08	6,963	1,520	1,963	3,757	149	2,195	20,819	**37,367**	26,339	76,243	**102,582**	**139,949**	-8,765	**-245,241**	**-254,006**	**-114,057**
2008-09	7,245	1,563	1,958	3,747	559	2,172	21,186	**38,431**	22,196	116,676	**138,872**	**177,303**	-1,940	**-230,920**	**-232,860**	**-55,557**
2009-10	7,449	1,618	1,960	3,747	671	2,281	21,501	**39,226**	29,058	202,467	**231,525**	**270,751**	-2,811	**-217,227**	**-220,038**	**50,713**
2010-11	7,230	1,636	1,961	3,747	1,216	1,182	24,098	**41,070**	35,364	326,434	**361,798**	**402,868**	-17,449	**-206,740**	**-224,190**	**178,679**
2011-12	6,907	1,740	1,968	3,757	581	1,066	23,482	**39,501**	19,473	164,536	**184,009**	**223,510**	-20,024	**-212,978**	**-233,002**	**-9,491**
2012-13	7,004	1,803	1,962	3,746	51	2,096	21,023	**37,685**	17,266	90,693	**107,959**	**145,645**	-13,312	**-226,893**	**-240,205**	**-94,561**
2013-14	7,280	1,886	1,963	3,747	454	2,274	20,811	**38,417**	9,757	71,967	**81,724**	**120,140**	-781	**-230,994**	**-231,774**	**-111,634**

Notes:

a. Period from July 1 of the first year through June 30 of the second year.

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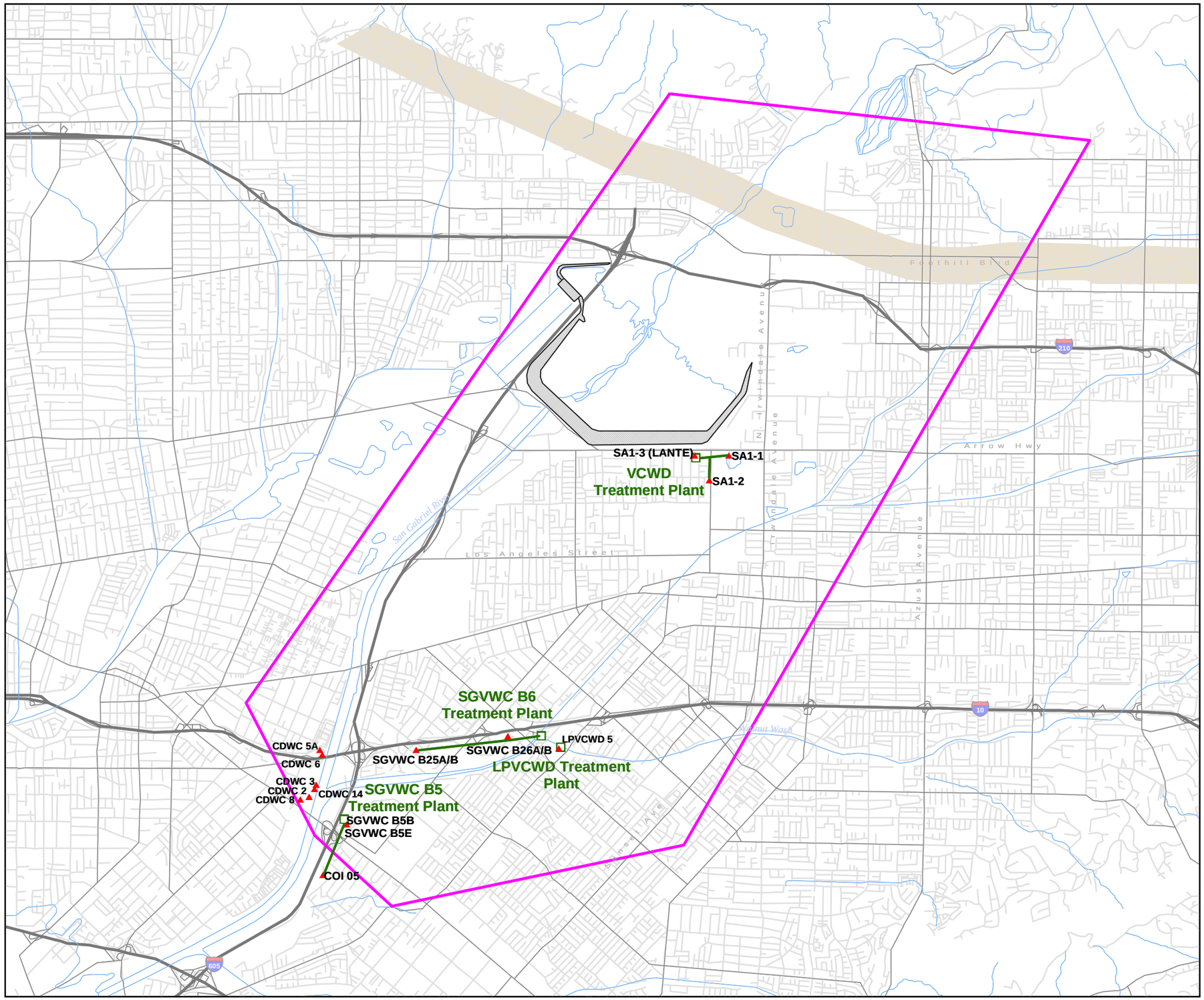
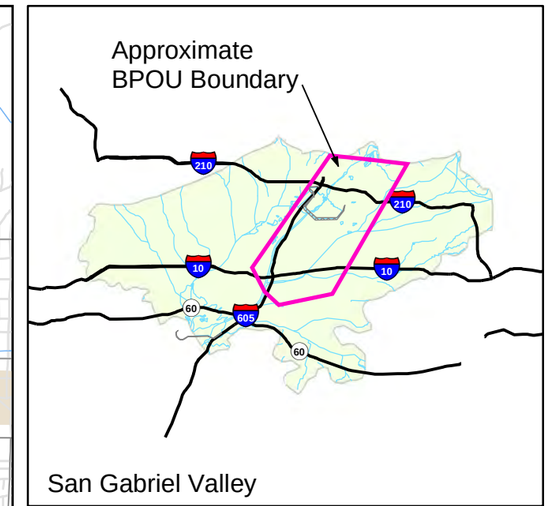
TABLE 3-1
SIMULATED EXTRACTION WELL PUMPING RATES
GROUNDWATER FLOW MODEL
Baldwin Park Operable Unit
San Gabriel Valley, California

Well Name	Site ID	Design Extraction Rates (gpm)	Target Operational Extraction Rates (gpm)	EPA Approved Extraction Rates (gpm)	2011/Q3		2011/Q4		2012/Q1		2012/Q2		2012/Q3		2012/Q4		2013/Q1		2013/Q2		2013/Q3		2013/Q4		2014/Q1		2014/Q2	
					Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm	Acre-ft	gpm
Subarea 1																												
VCWD SA-1 Subproject																												
SA1-1	08000185	3,400	3,000	1,000	460	1144	92	229	799	2010	654	1644	884	2197	779	1936	689	1750	478	1203	0	0	0	0	0	0	0	0
SA1-2	08000186	2,400	2,200	0	0	0	0	0	0	0	127	319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA1-3	08000060	2,000	1,800	5,000	1302	3236	680	1690	1372	3450	1233	3099	1347	3348	1385	3444	1261	3207	1337	3361	917	2281	117	292	564	1434	1324	3328
Subtotal		**7800**	**7000**	**6000**	**1762**	**4380**	**772**	**1919**	**2172**	**5460**	**2014**	**5063**	**2230**	**5546**	**2164**	**5380**	**1950**	**4957**	**1815**	**4564**	**917**	**2281**	**117**	**292**	**564**	**1434**	**1324**	**3328**
Subarea 3																												
LPVCWD Subproject																												
LPVCWD 2	01901460	Standby	Standby	Standby	1	1	1	1	110	276	273	686	1	3	1	3	5	13	18	44	16	41	15	38	13	32	134	338
LPVCWD 3	01902859	Standby	Standby	Standby	1	3	1	4	146	366	406	1020	2	4	2	5	7	17	22	57	21	53	24	59	148	377	195	491
LPVCWD 5	08000209	2,500	2,250	2,250	961	2390	936	2328	597	1501	117	293	925	2299	865	2151	850	2161	793	1993	890	2213	874	2173	585	1487	517	1299
Subtotal		**2500**	**2250**	**2250**	**963**	**2394**	**938**	**2333**	**853**	**2144**	**795**	**1999**	**928**	**2307**	**868**	**2158**	**862**	**2191**	**833**	**2093**	**928**	**2307**	**913**	**2270**	**746**	**1896**	**846**	**2128**
SGVWC B6 Subproject																												
SGVWC	08000187	2,800	2,500	2,500	907	2255	930	2313	533	1340	165	414	274	682	1	2	1	3	659	1657	664	1651	0	0	0	0	622	1565
SGVWC	08000188	2,800	2,500	2,500	701	1743	761	1893	432	1086	132	333	224	557	1	1	1	3	717	1804	718	1785	0	0	0	0	883	2221
SGVWC	08000189	1,100	1,000	750	384	954	386	960	302	760	383	962	420	1043	442	1099	308	783	238	599	212	527	0	0	0	0	217	545
SGVWC	08000190	1,100	1,000	750	379	944	382	949	298	749	377	947	412	1026	437	1086	308	782	321	807	291	724	0	0	0	0	378	951
Subtotal		**7800**	**7000**	**6500**	**2371**	**5896**	**2459**	**6115**	**1565**	**3934**	**1056**	**2655**	**1331**	**3308**	**880**	**2189**	**618**	**1571**	**1936**	**4866**	**1885**	**4687**	**0**	**0**	**0**	**0**	**2100**	**5281**
SGVWC B5 Subproject																												
SGVWC B5B	61900719	3,300	3,000	3,000	1234	3068	1222	3039	1233	3099	1267	3185	1258	3129	1258	3128	982	2496	1197	3008	1169	2906	906	2252	1094	2781	1072	2694
SGVWC B5E	08000205	3,300	3,000	3,000	1373	3414	1378	3425	1082	2719	1670	4199	1331	3310	1337	3325	1193	3034	1718	4319	1212	3015	1192	2964	1122	2852	1446	3634
COI 5	08000097	1,200	1,000	1,000	433	1077	404	1004	479	1203	32	81	482	1199	485	1207	385	978	0	0	466	1159	468	1165	428	1087	202	508
Subtotal		**7800**	**7000**	**7000**	**3040**	**7559**	**3003**	**7468**	**2793**	**7022**	**2969**	**7465**	**3071**	**7637**	**3081**	**7660**	**2560**	**6508**	**2914**	**7327**	**2847**	**7080**	**2566**	**6381**	**2643**	**6719**	**2719**	**6837**
CDWC Project																												
CDWC 2	01901181	NA	NA	---	373	927	161	400	326	818	1026	2580	1060	2637	183	456	457	1161	933	2345	967	2403	270	672	208	530	531	1334
CDWC 3	01903057	NA	NA	---	1775	4412	1809	4498	1543	3879	1830	4600	1697	4220	1504	3739	1652	4201	1698	4270	1700	4228	1744	4336	1672	4252	1636	4114
CDWC 5A	08000100	NA	NA	---	1572	3910	1065	2649	1180	2967	1529	3845	1408	3501	1183	2941	837	2129	1608	4042	1482	3684	1422	3536	1370	3482	1450	3645
CDWC 6	01902967	NA	NA	---	1585	3941	628	1563	239	601	558	1403	1636	4067	727	1807	483	1228	962	2419	817	2031	37	92	97	247	660	1660
CDWC 8	01903081	NA	NA	---	296	737	116	288	165	415	519	1304	742	1846	210	523	45	114	47	119	1098	2730	534	1327	556	1414	932	2344
Subtotal		**NA**	**NA**	**8000**	**5601**	**13927**	**3779**	**9397**	**3453**	**8680**	**5462**	**13732**	**6543**	**16270**	**3807**	**9465**	**3474**	**8833**	**5248**	**13194**	**6064**	**15077**	**4007**	**9963**	**3904**	**9924**	**5209**	**13097**

Notes:
1 - Average production rates estimated by dividing the total monthly well production by the number of minutes in each quarter.
gpm - gallons per minute.
1 acre-foot = 325,851 gallons.
NA - Not Applicable.

FIGURES





EXPLANATION

- Extraction well
- Treatment plant
- Raw water pipeline
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU EXTRACTION WELL, RAW WATER PIPELINE, AND TREATMENT PLANT LOCATION MAP

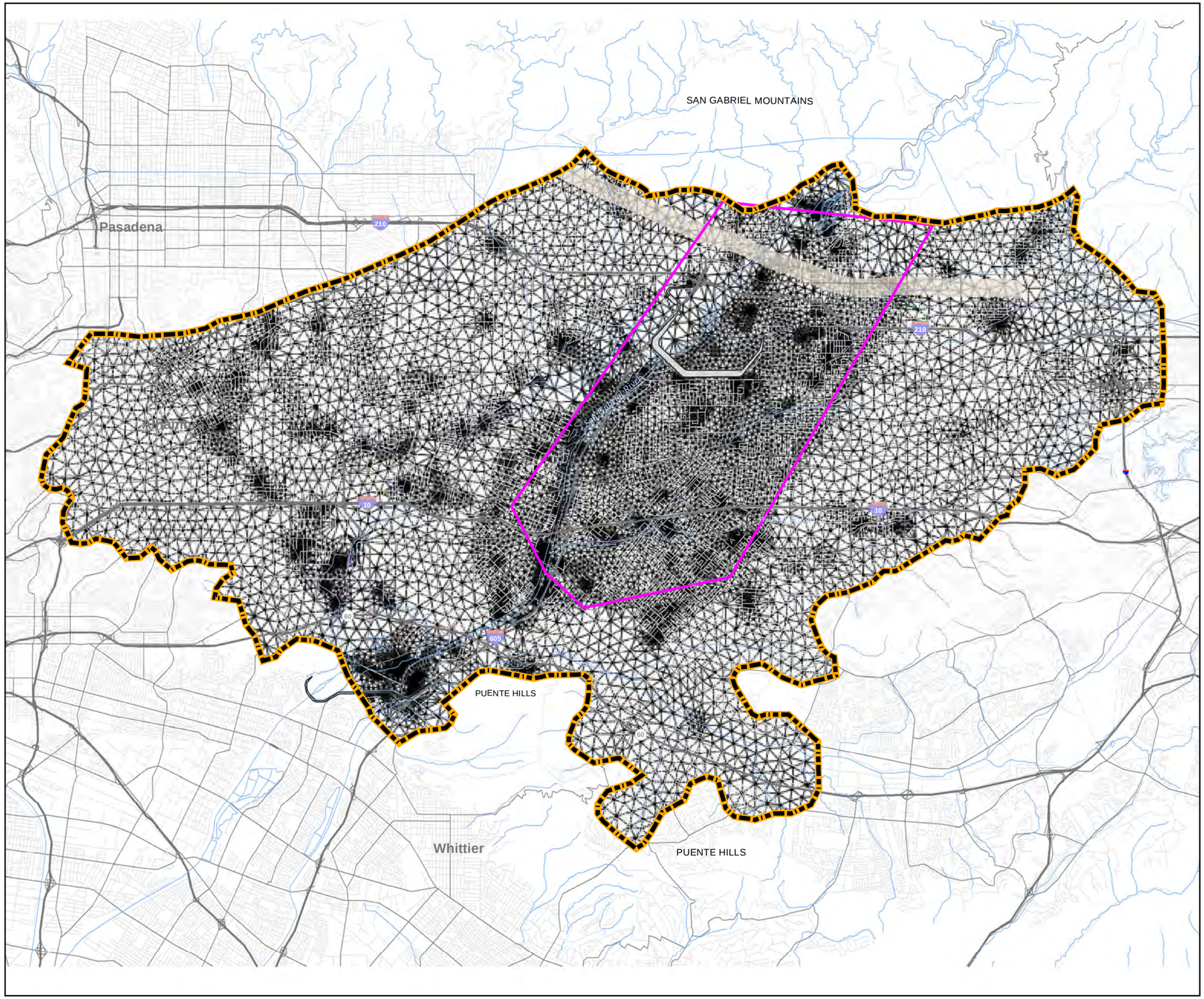
Baldwin Park Operable Unit
San Gabriel Valley, California

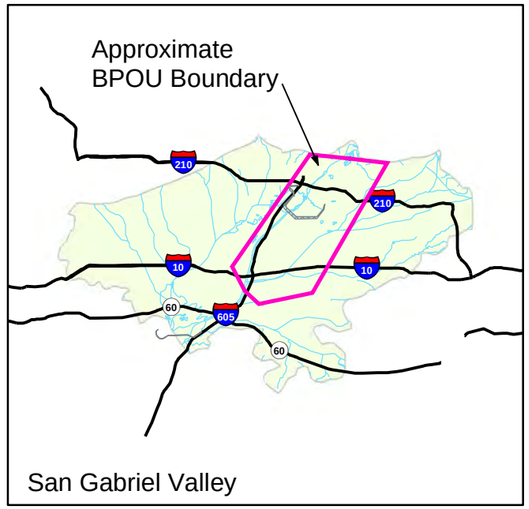
Geosyntec consultants

Project No.: SAC150

Figure **1-1**

Path: P:\GIS\SAC150_BPOU\project\201507_Modeling\addendum1-01_BPOU_Infrastructure.mxd





EXPLANATION

- FEFLOW Numerical Grid
- Approximate BPOU FEFLOW Model Domain
- Approximate BPOU boundary
- Duarte Fault Zone

10,000 0 10,000

SCALE IN FEET

N

BPOU MODEL DOMAIN AND NUMERICAL GRID

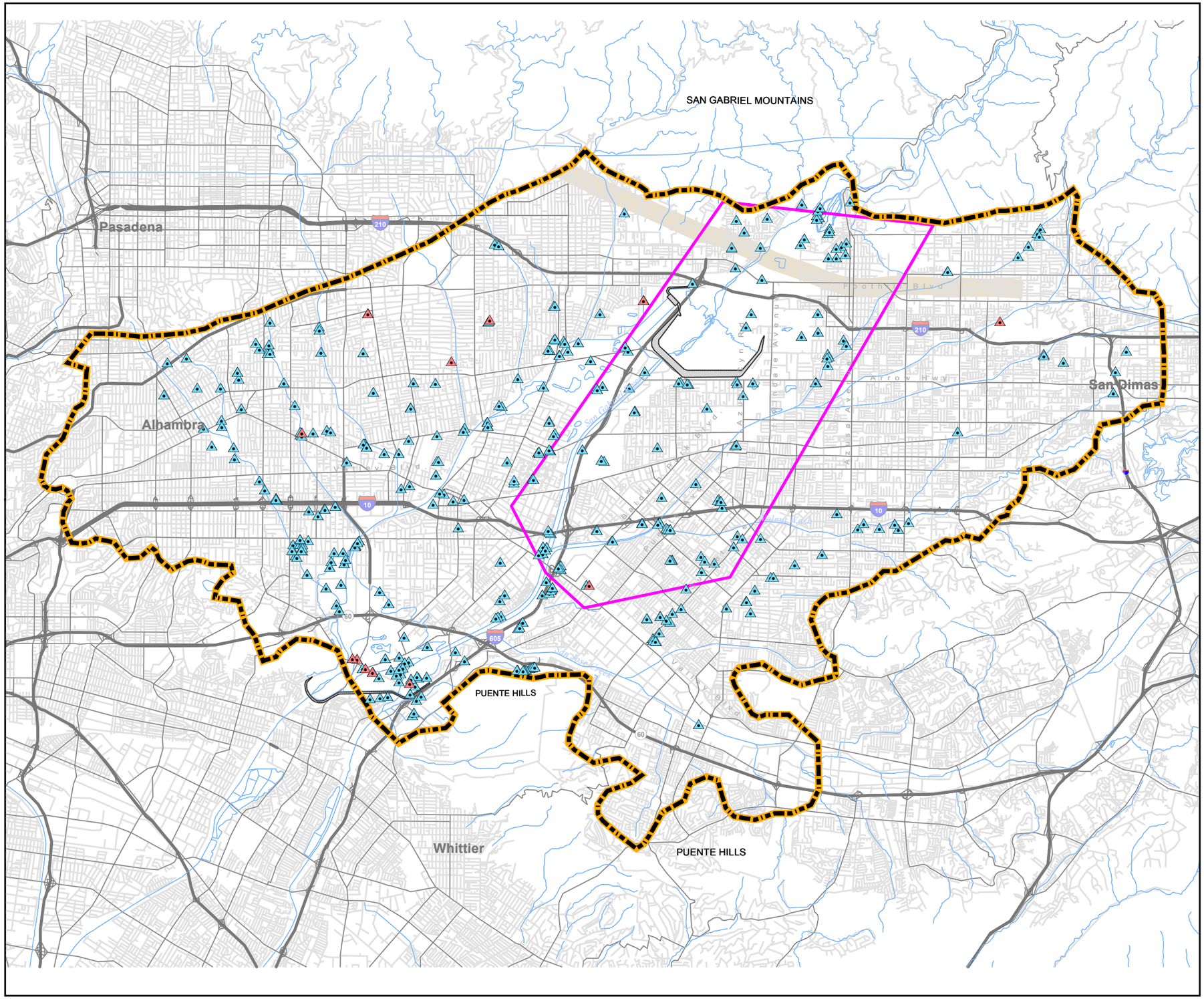
Baldwin Park Operable Unit
San Gabriel Valley, California

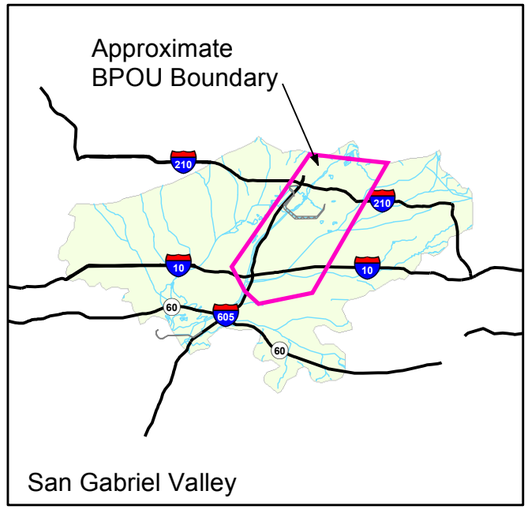
Geosyntec consultants

Project No.: SAC150

Figure **2-1**

Path: P:\GIS\SAC150_BPOU\project\201507_Modeling\Addendum\2-01_BPOU_ModelDomain.mxd





EXPLANATION

- Pumping Well added to model in 2015 update
- Pumping Well included in model previously
- Approximate BPOU FEFLOW Model Domain
- Approximate BPOU boundary
- Duarte Fault Zone

10,000 0 10,000

SCALE IN FEET

N

PUMPING WELLS IN BPOU GROUNDWATER MODEL

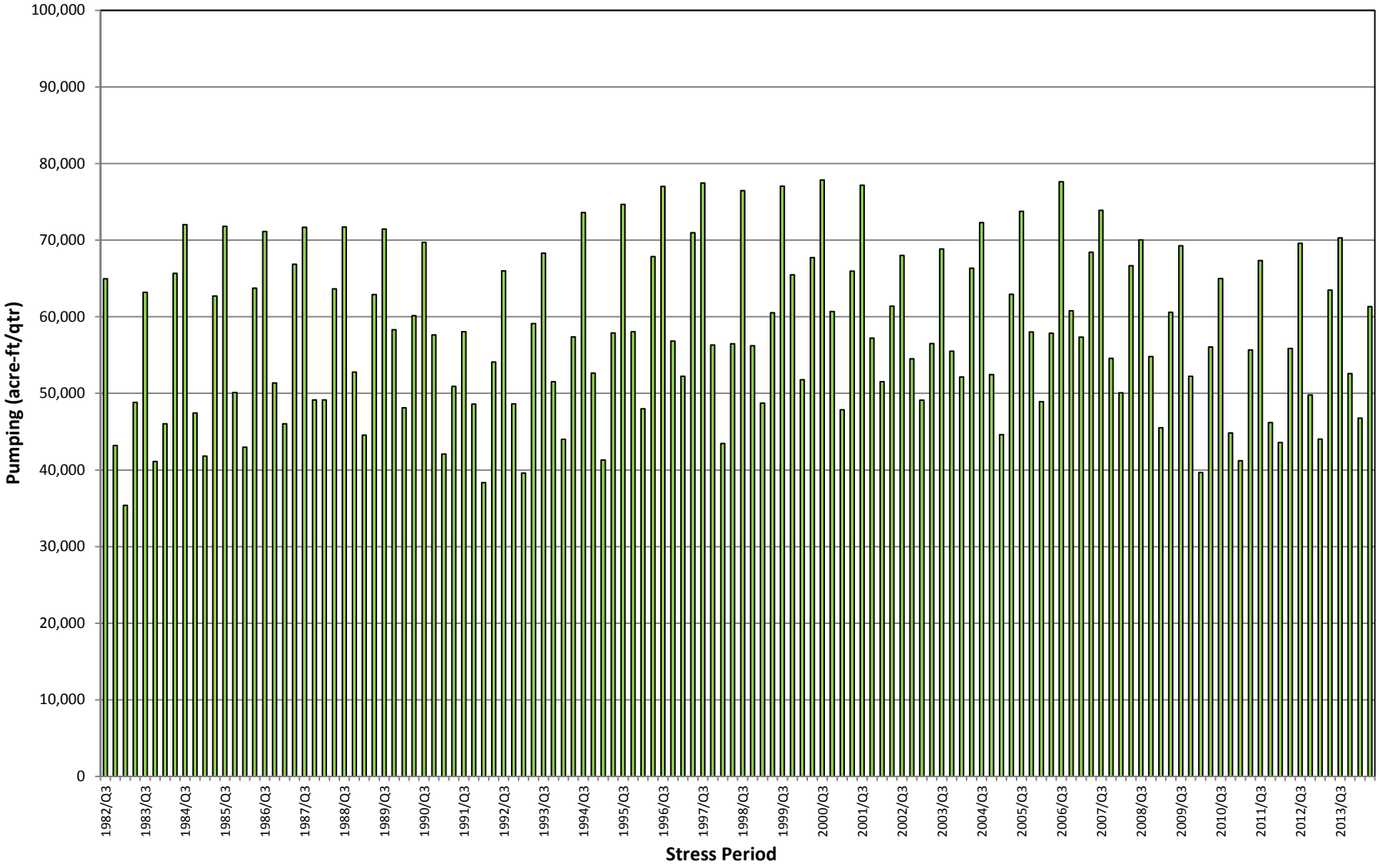
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure 2-2

Path: P:\GIS\SAC150_BPOU\project\201507_Modeling\Addendum\2-02_BPOU_PumpingWells.mxd



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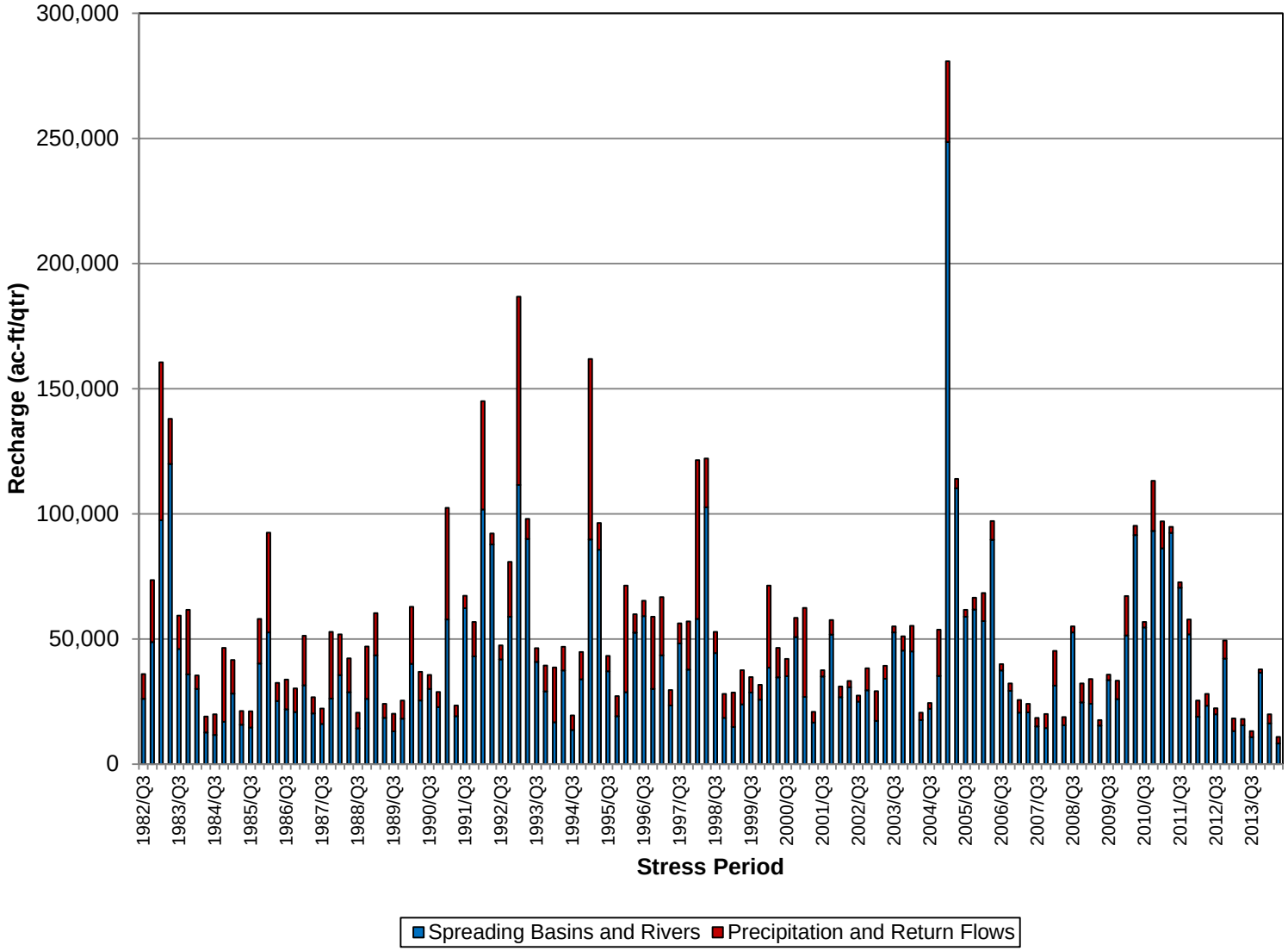
SIMULATED QUARTERLY PUMPING RATES
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-3**

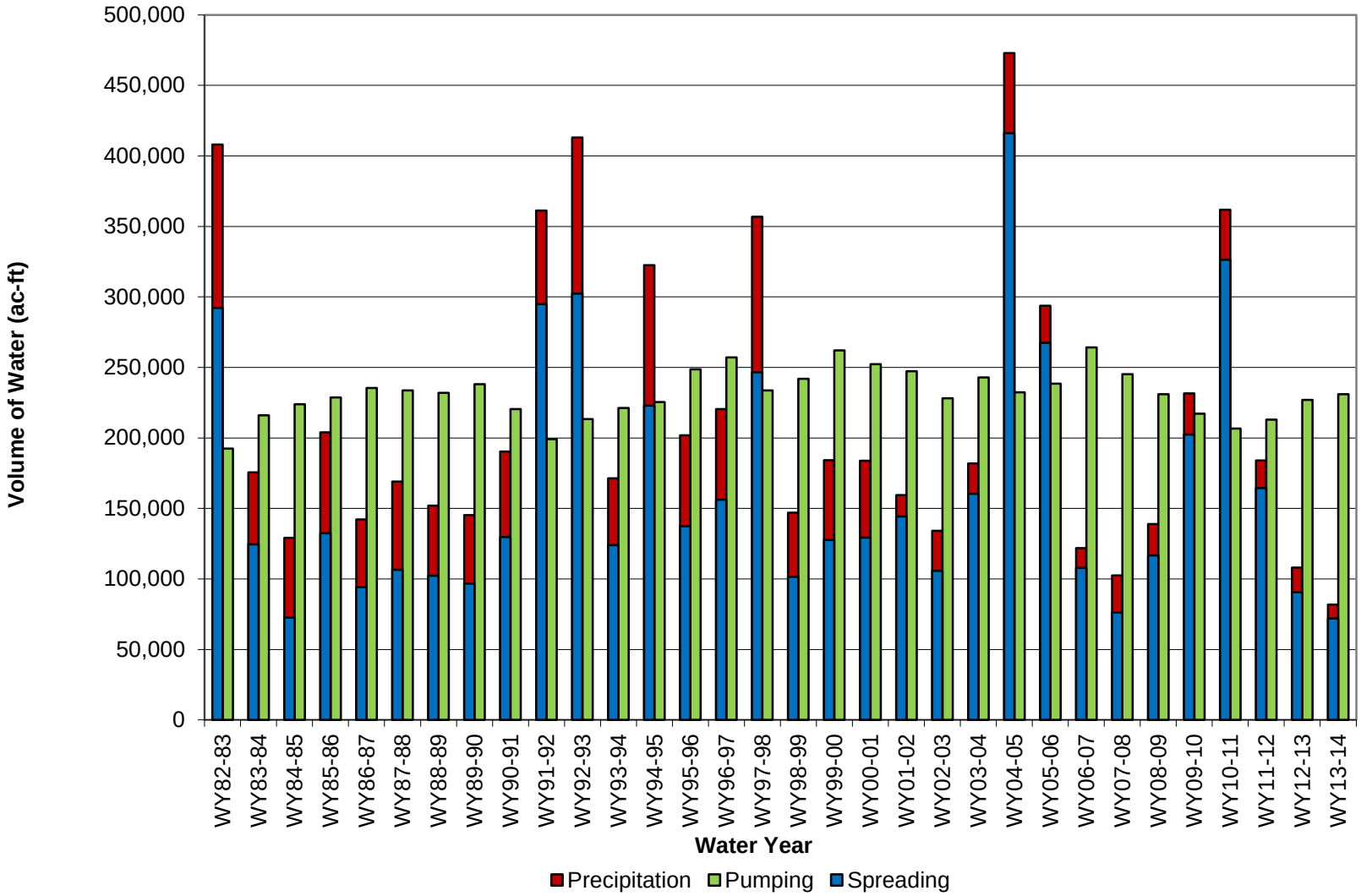


Geosyntec consultants

SIMULATED QUARTERLY RECHARGE RATES
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-4**

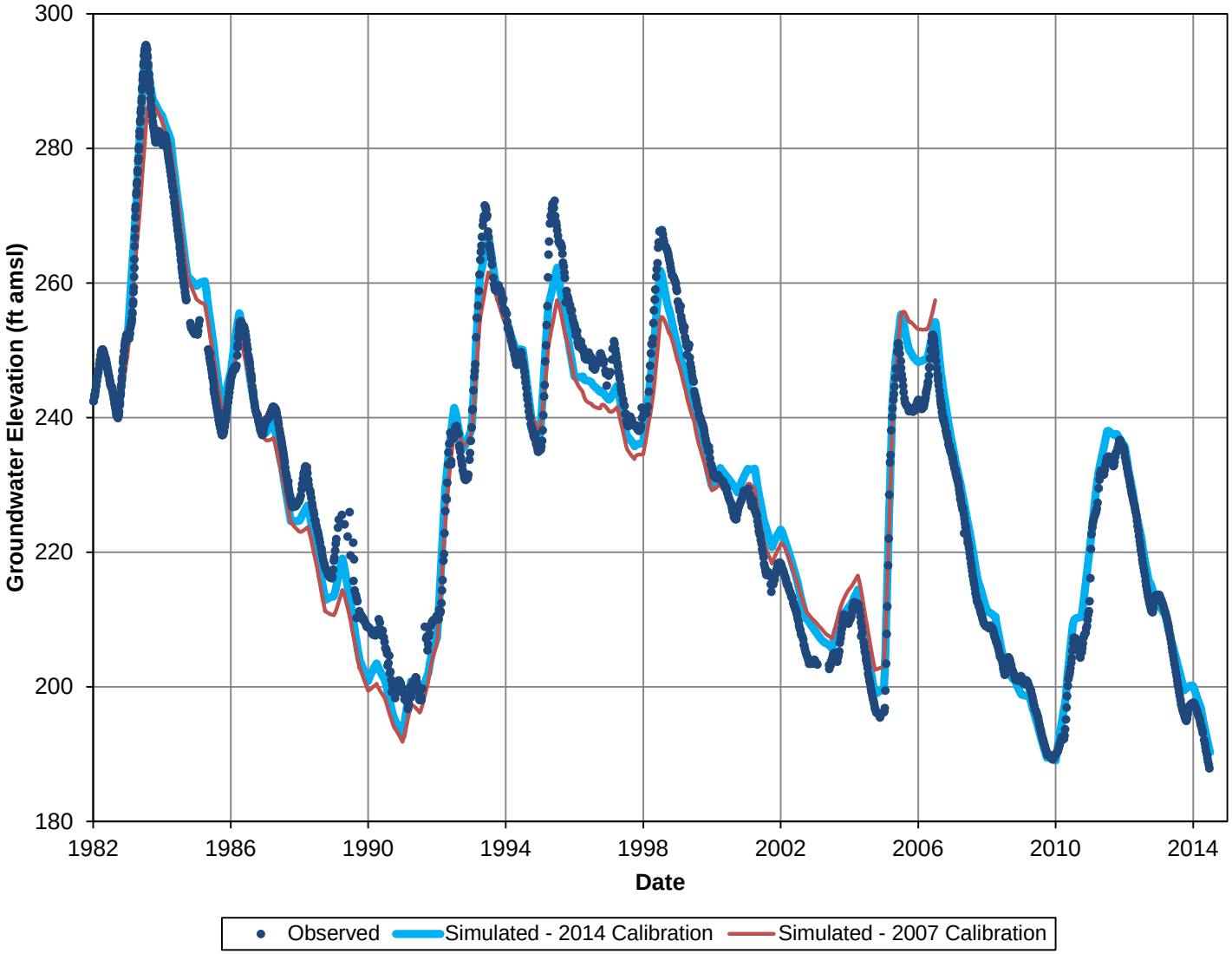


Geosyntec consultants

SIMULATED ANNUAL RECHARGE AND PUMPING RATES
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-5**

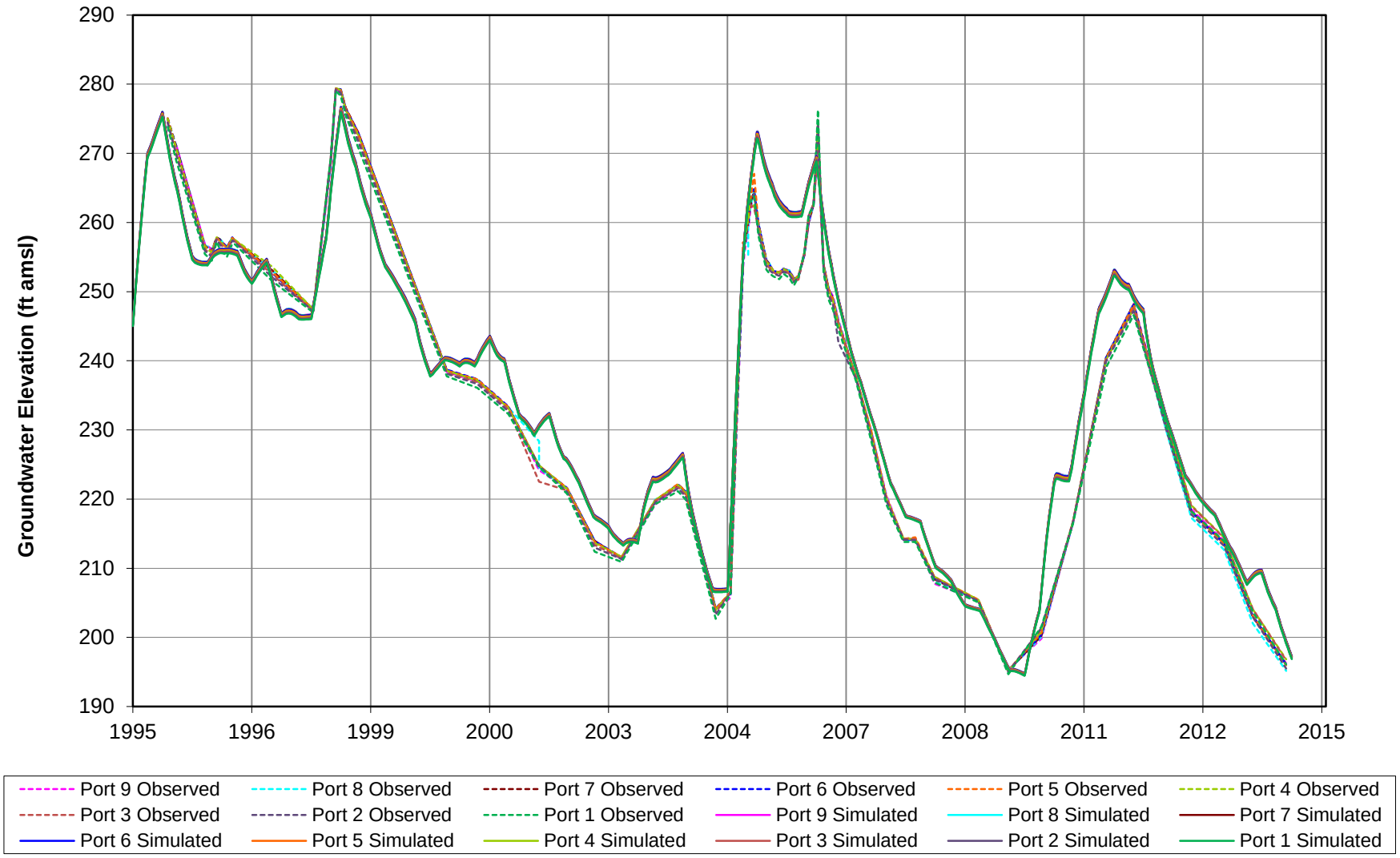


Geosyntec consultants

LACO KEY WELL CALIBRATION HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-6**

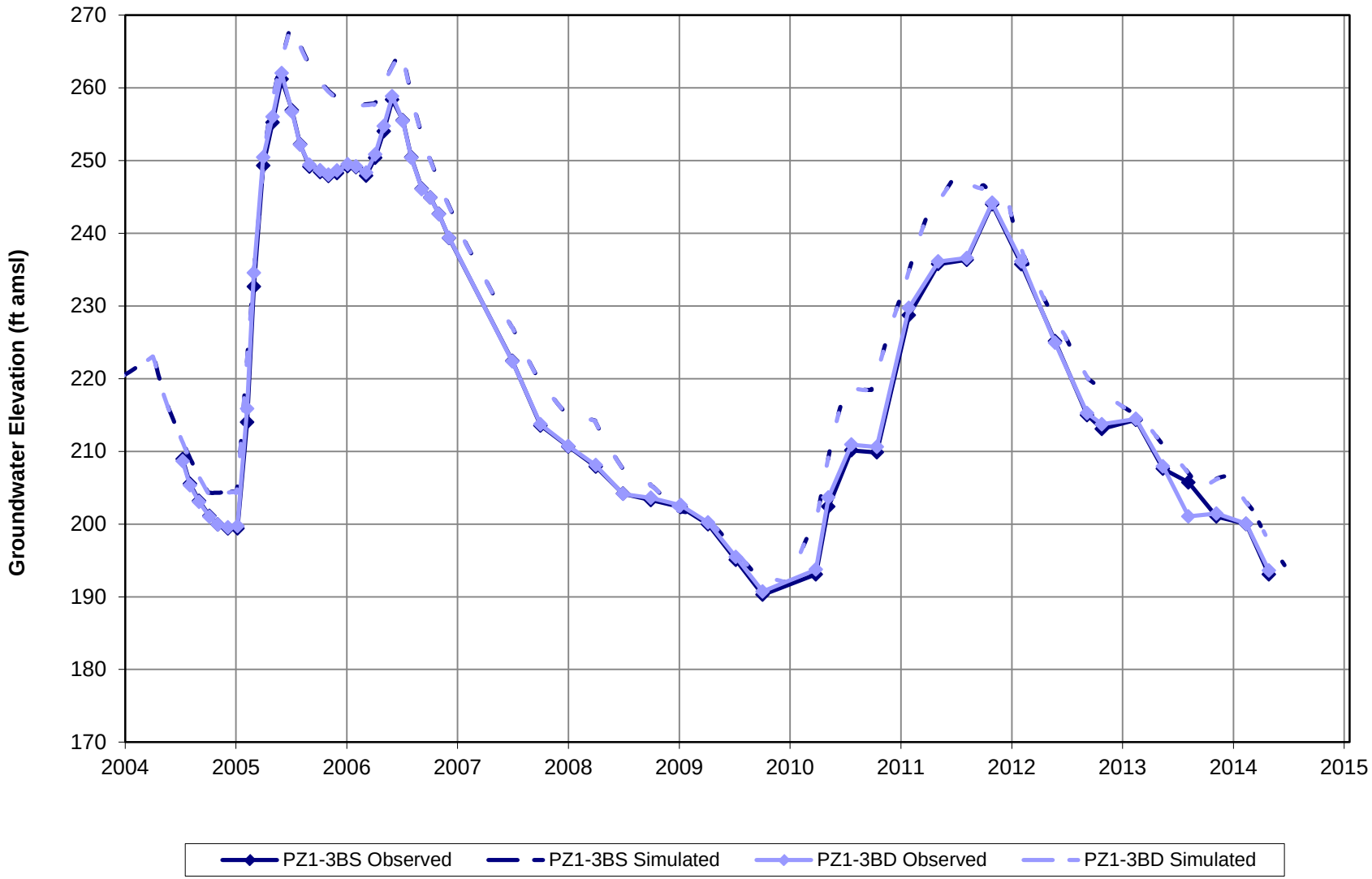


Geosyntec consultants

SUBAREA 1 MULTIPORT WELL CALIBRATION HYDROGRAPH FOR MW 5-03
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-7**

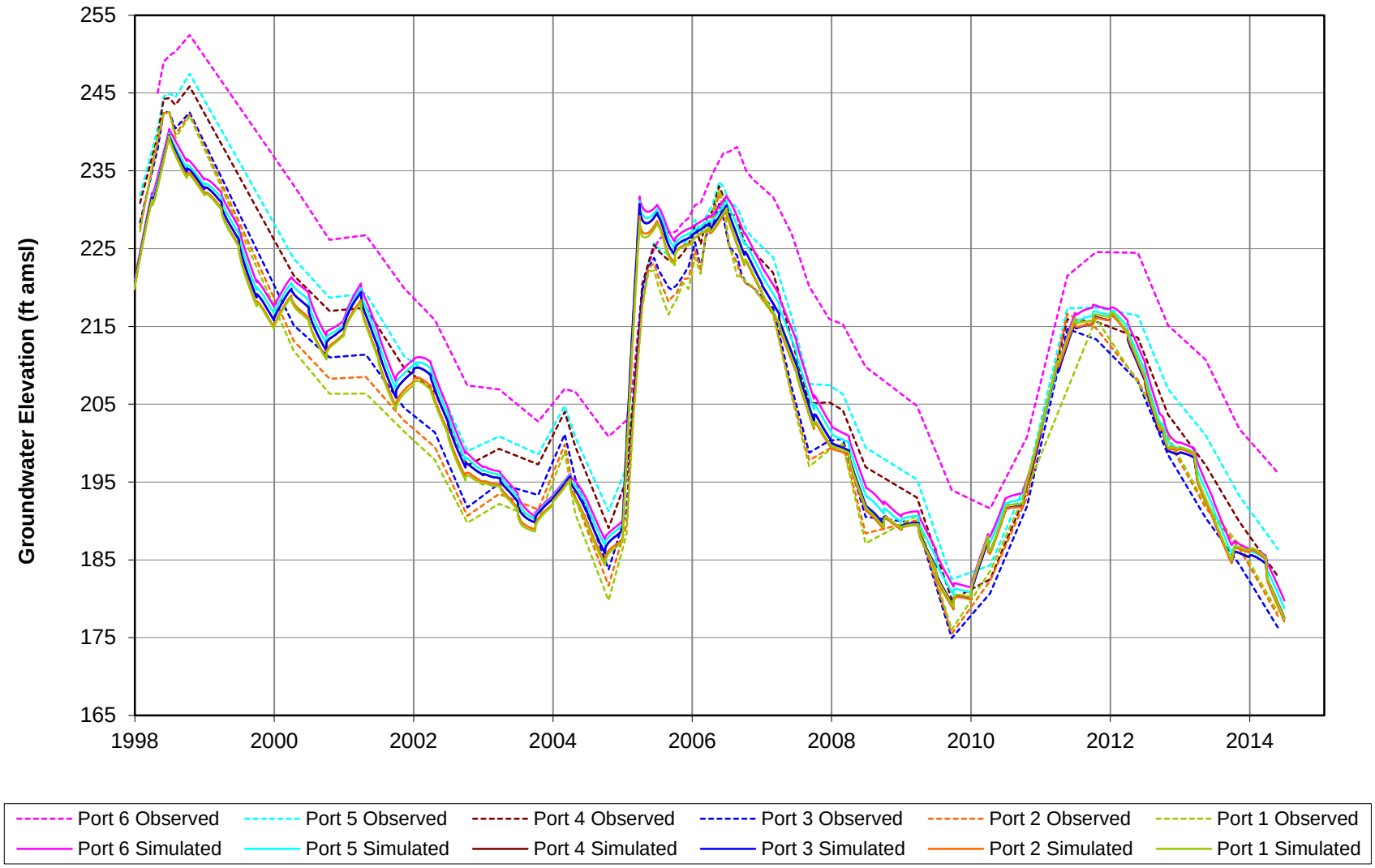


Geosyntec consultants

SUBAREA 1 PIEZOMETER CALIBRATION HYDROGRAPH FOR PZ1-3B D/S
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-8**



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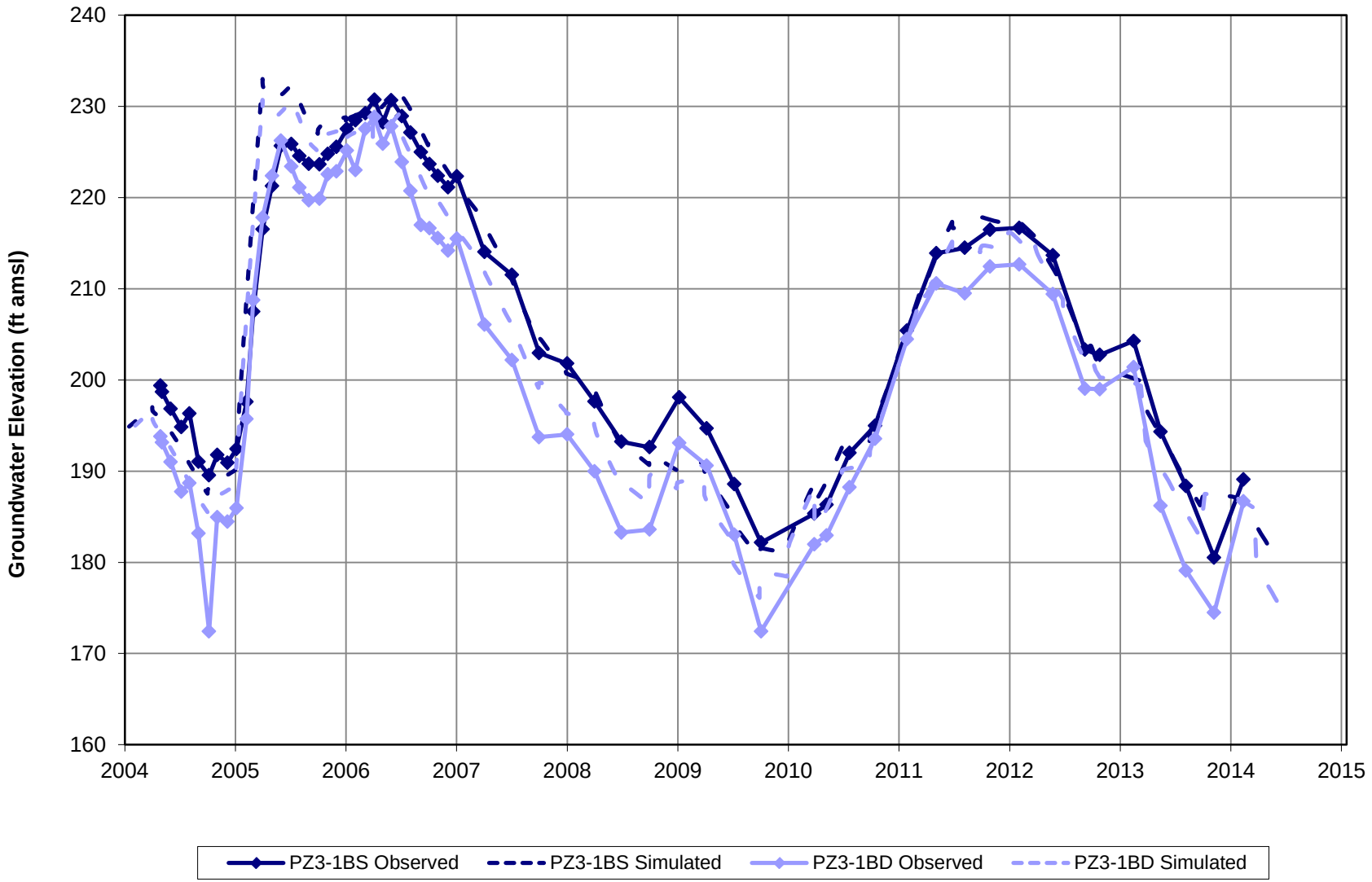
SUBAREA 3 MULTIPORT WELL CALIBRATION HYDROGRAPH FOR MW 5-23
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-9**

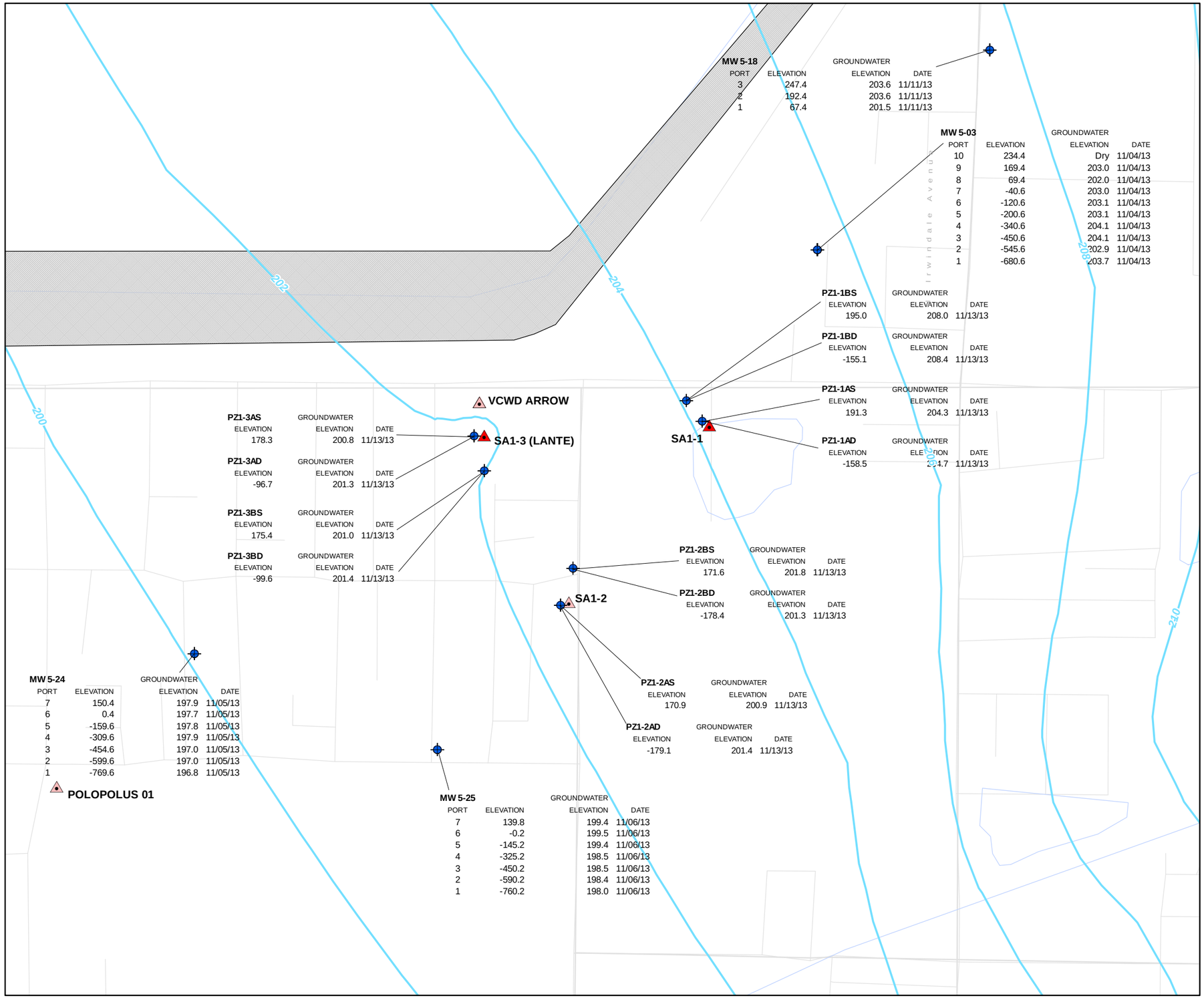


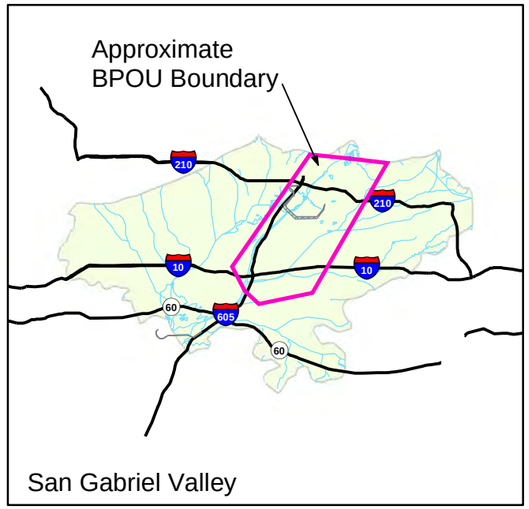
Geosyntec consultants

SUBAREA 3 PIEZOMETER CALIBRATION HYDROGRAPH FOR PZ3-1B D/S
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. SAC150

Figure **2-10**





EXPLANATION

- Monitoring or Multiport Well
- Extraction or Pumping Well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour Interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 6 - September 28, 2013.

700 0 700
SCALE IN FEET

N

SUBAREA 1 SIMULATED FALL 2013 POTENTIOMETRIC SURFACE

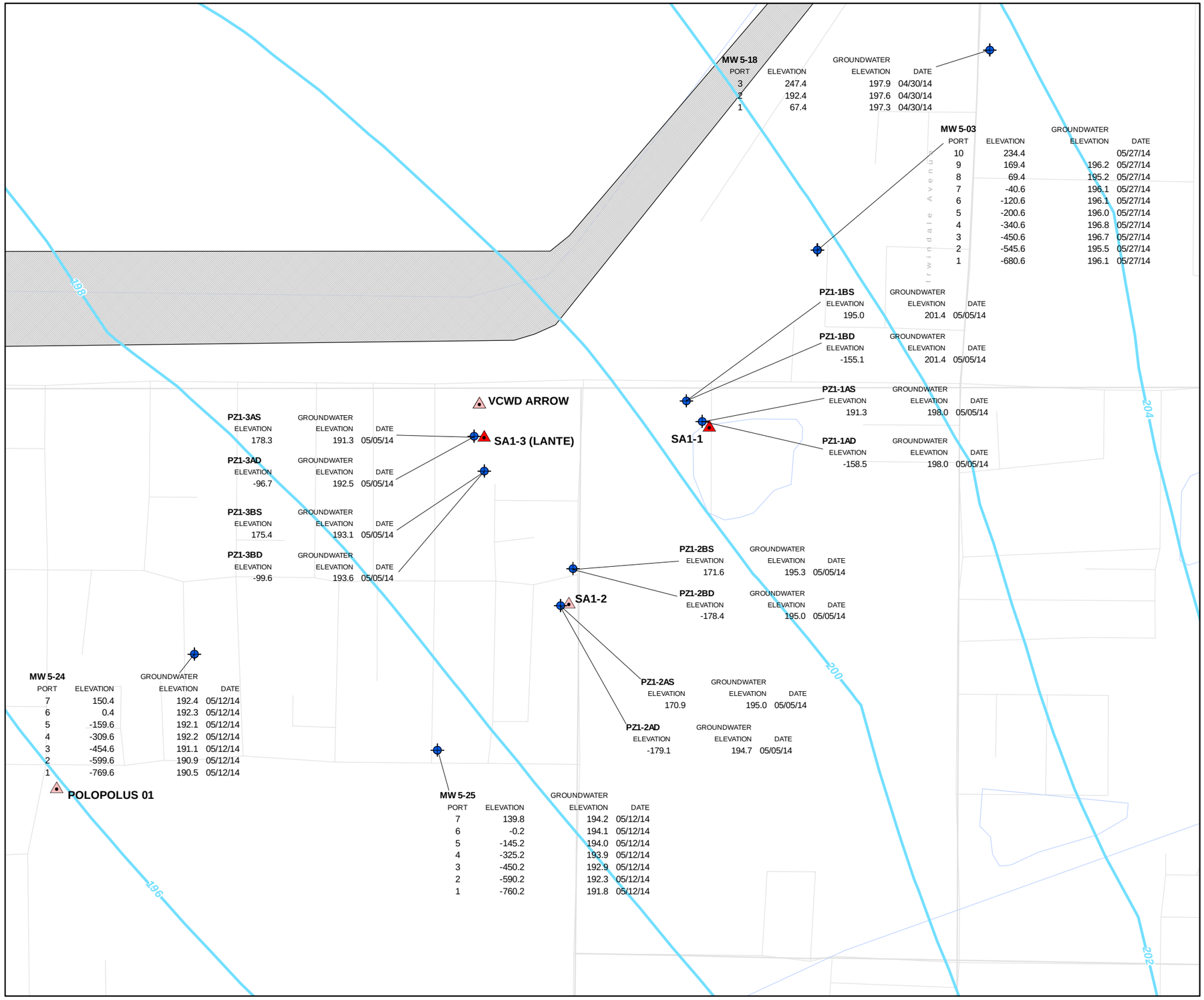
Baldwin Park Operable Unit
San Gabriel Valley, California

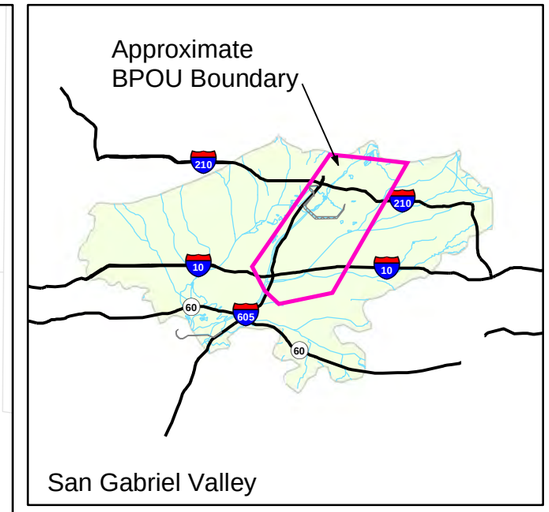
Geosyntec consultants

Project No.: SAC150

Figure **2-11**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-11_Fall2013_Sim_GW_Elevations_SubArea1.mxd





EXPLANATION

- Monitoring or Multiport Well
- Extraction or Pumping Well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour Interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 6 - March 26, 2014.

700 0 700

SCALE IN FEET

N

SUBAREA 1 SIMULATED SPRING 2014 POTENTIOMETRIC SURFACE

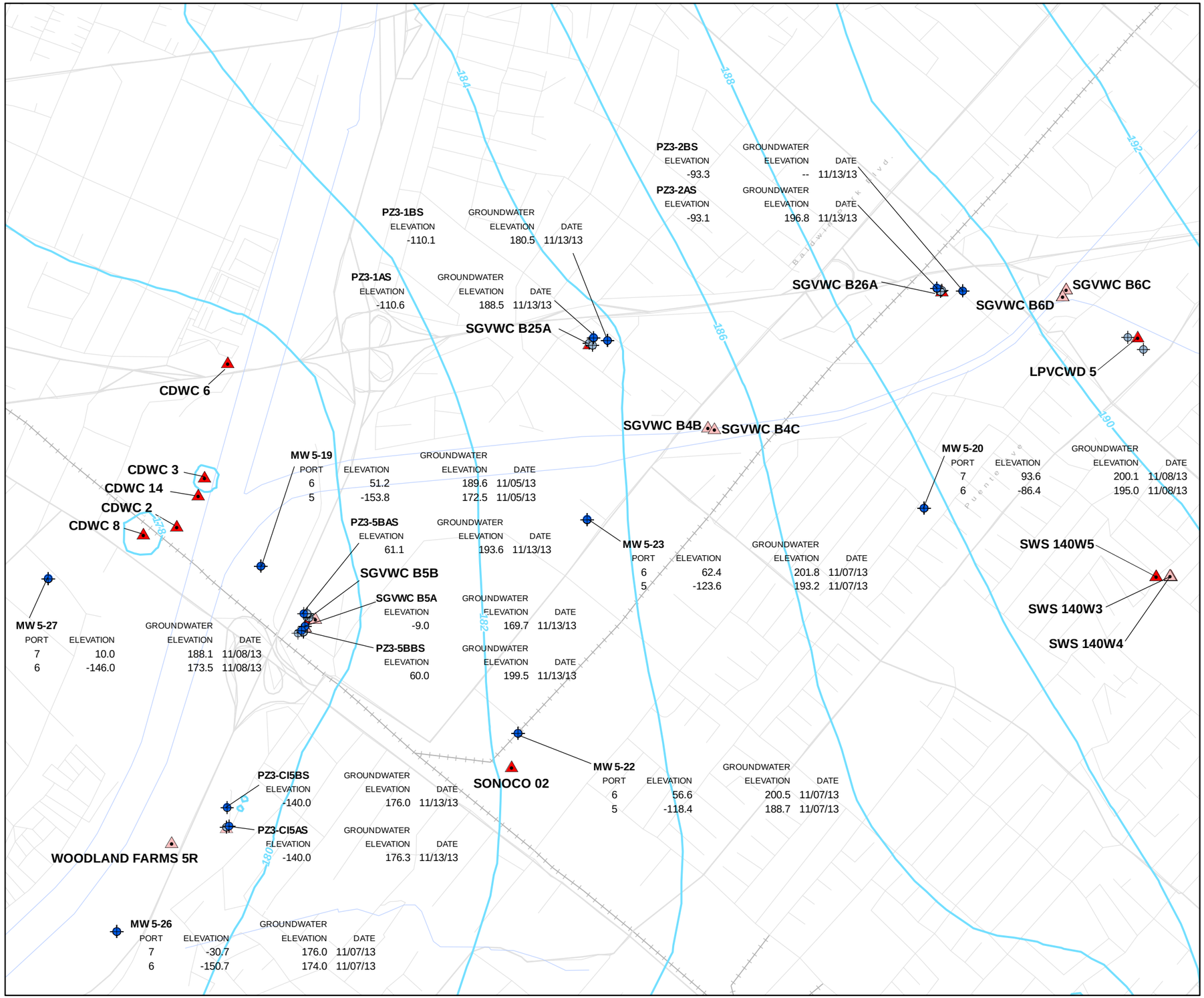
Baldwin Park Operable Unit
San Gabriel Valley, California

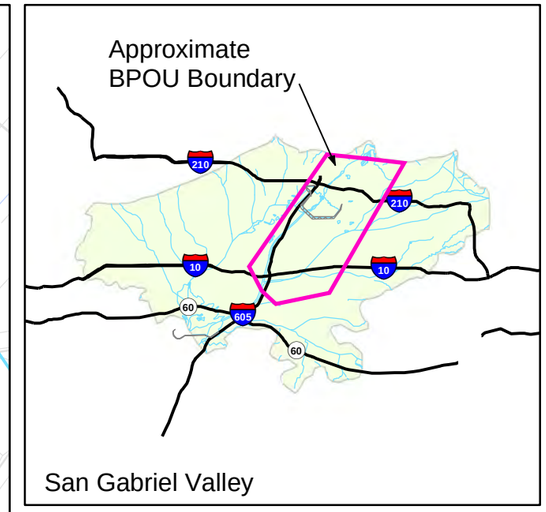
Geosyntec consultants

Project No.: SAC150

Figure **2-12**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModellingAddendum\2-12_Spring2014_Sim_GW_Elevations_SubArea1.mxd





EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not above -200 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - September 28, 2013.
-- Not measured. Well inaccessible.

1,300 0 1,300
SCALE IN FEET

N

SUBAREA 3 SIMULATED FALL 2013 POTENTIOMETRIC SURFACE ABOVE -200 FEET MSL

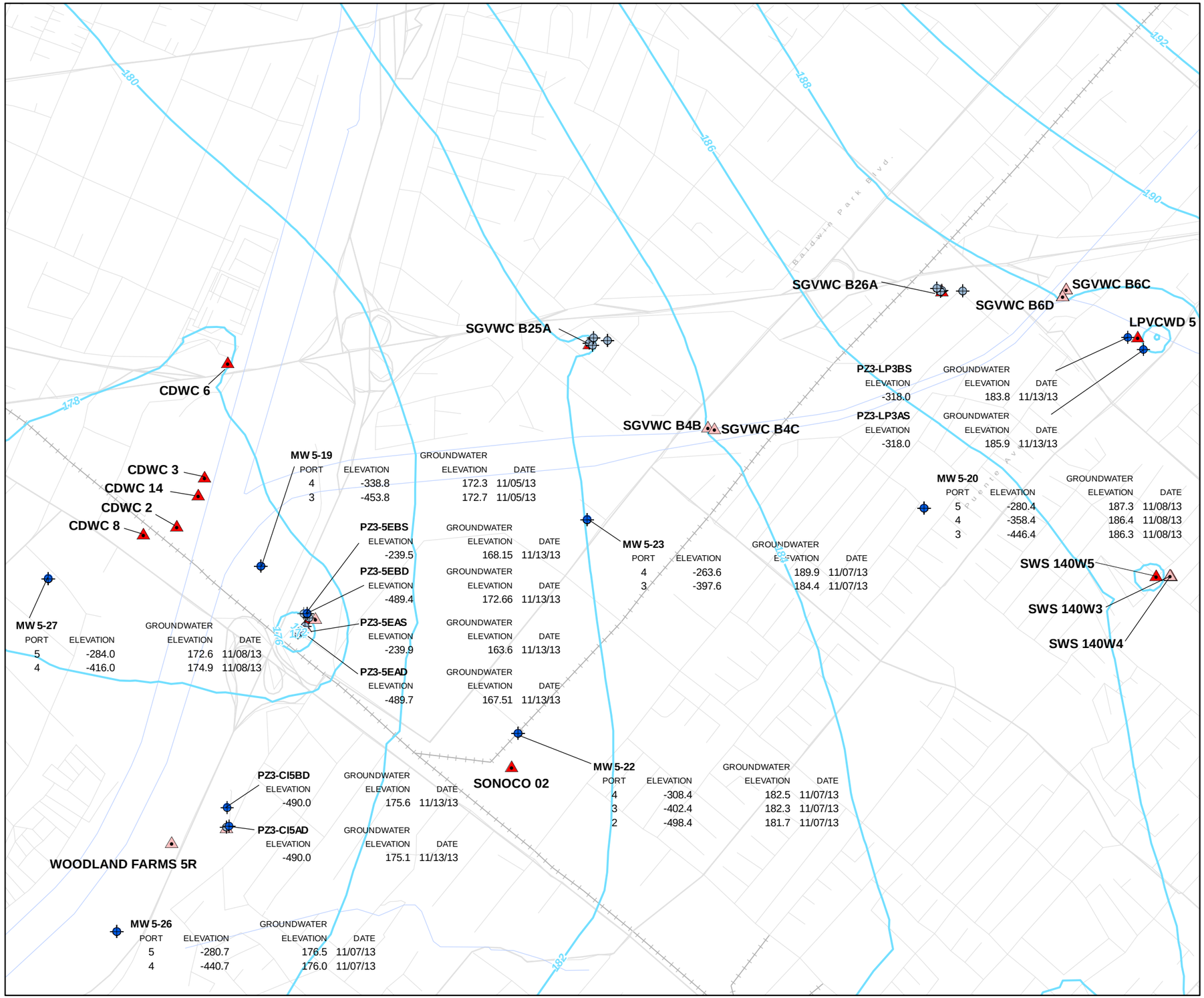
Baldwin Park Operable Unit
San Gabriel Valley, California

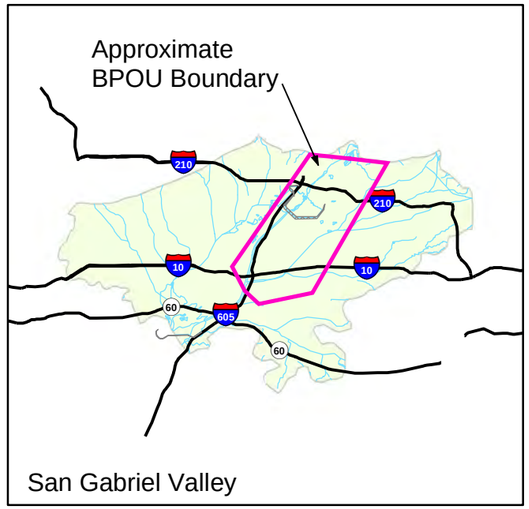
Geosyntec consultants

Project No.: SAC150

Figure **2-13**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModellingAddendum\2-13_Fall2013_Sim_GW_Elevations_above_-200MSL1_SubArea3.mxd





EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not between -200 and -500 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - September 28, 2013.

1,300 0 1,300

SCALE IN FEET

N

SUBAREA 3 SIMULATED FALL 2013 POTENTIOMETRIC SURFACE BETWEEN -200 FEET MSL AND -500 FEET MSL

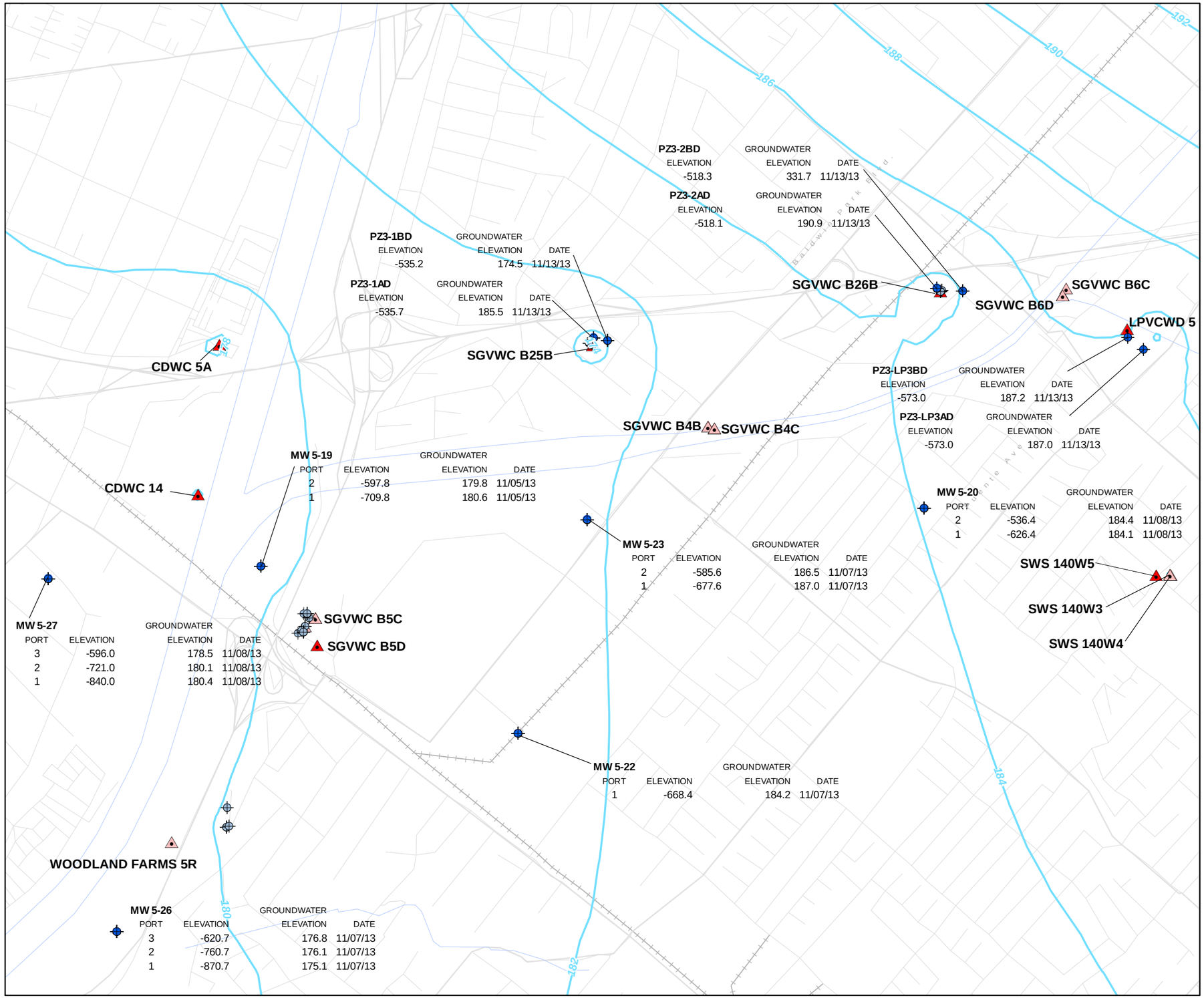
Baldwin Park Operable Unit
San Gabriel Valley, California

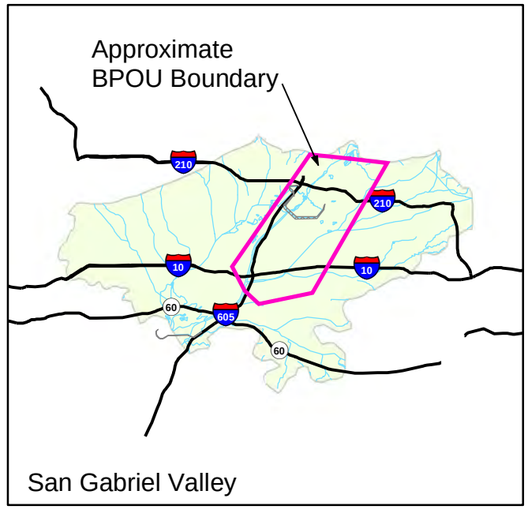
Geosyntec consultants

Project No.: SAC150

Figure **2-14**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-14_Fall2013_Sim_GW_Elevations_between_-200_and_-500MSL1_SubArea3.mxd





EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not below -500 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - September 28, 2013.

1,300 0 1,300

SCALE IN FEET

N

SUBAREA 3 SIMULATED FALL 2013 POTENTIOMETRIC SURFACE BELOW -500 FEET MSL

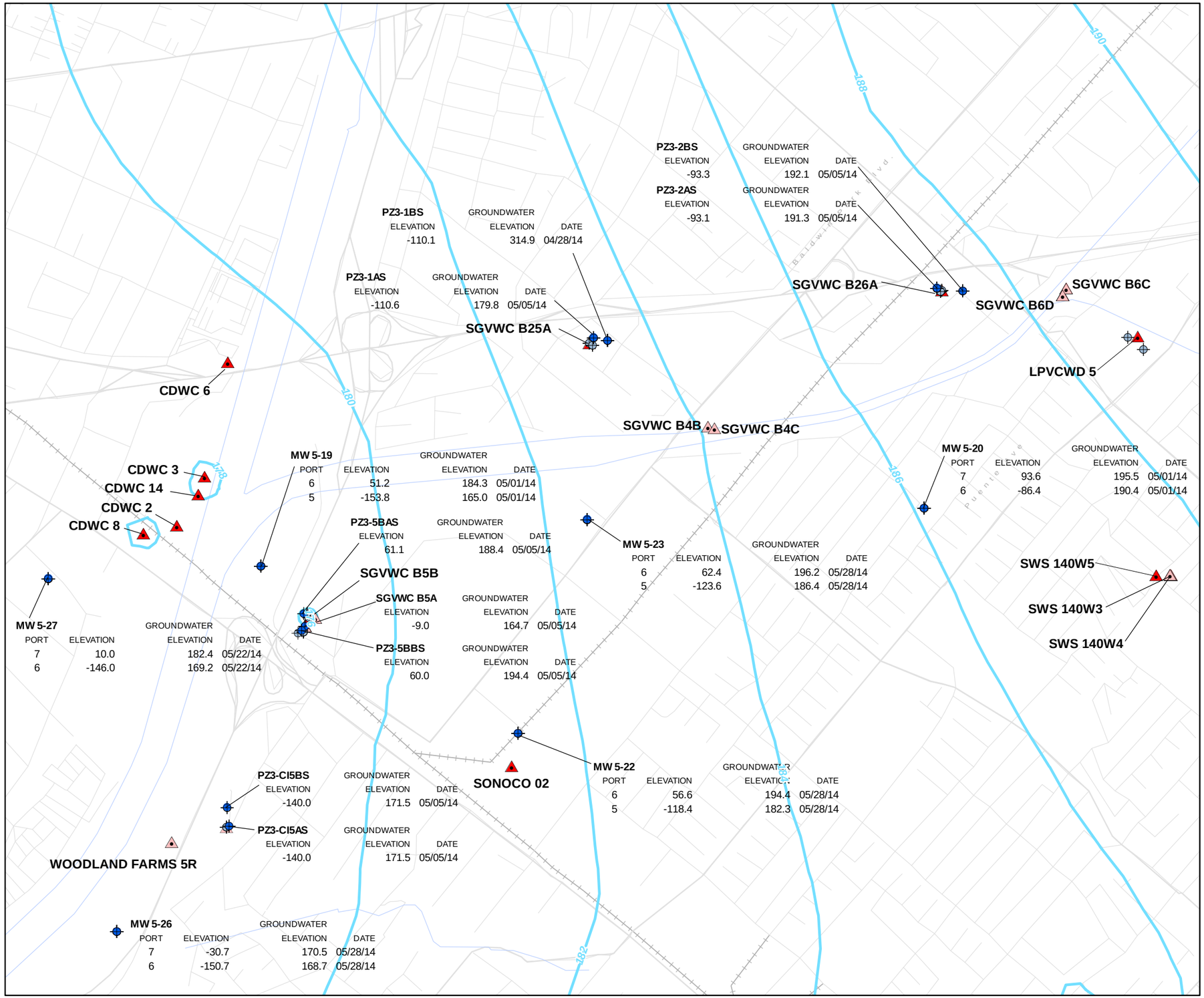
Baldwin Park Operable Unit
San Gabriel Valley, California

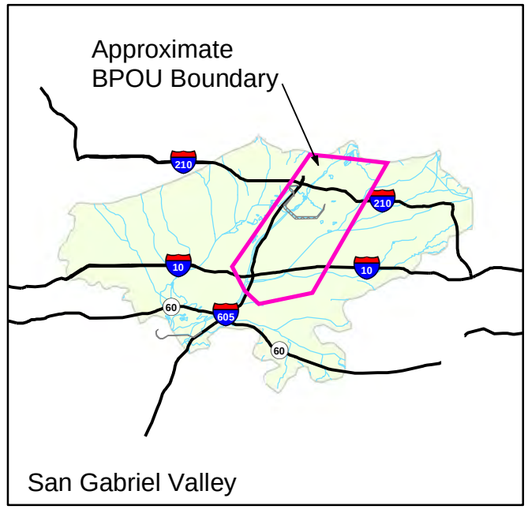
Geosyntec consultants

Project No.: SAC150

Figure 2-15

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-15_Fall2013_Sim_GW_Elevations_below_-500MSL1_SubArea3.mxd





EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not above -200 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - March 26, 2014.

1,300 0 1,300
SCALE IN FEET

N

SUBAREA 3 SIMULATED SPRING 2014 POTENTIOMETRIC SURFACE ABOVE -200 FEET MSL

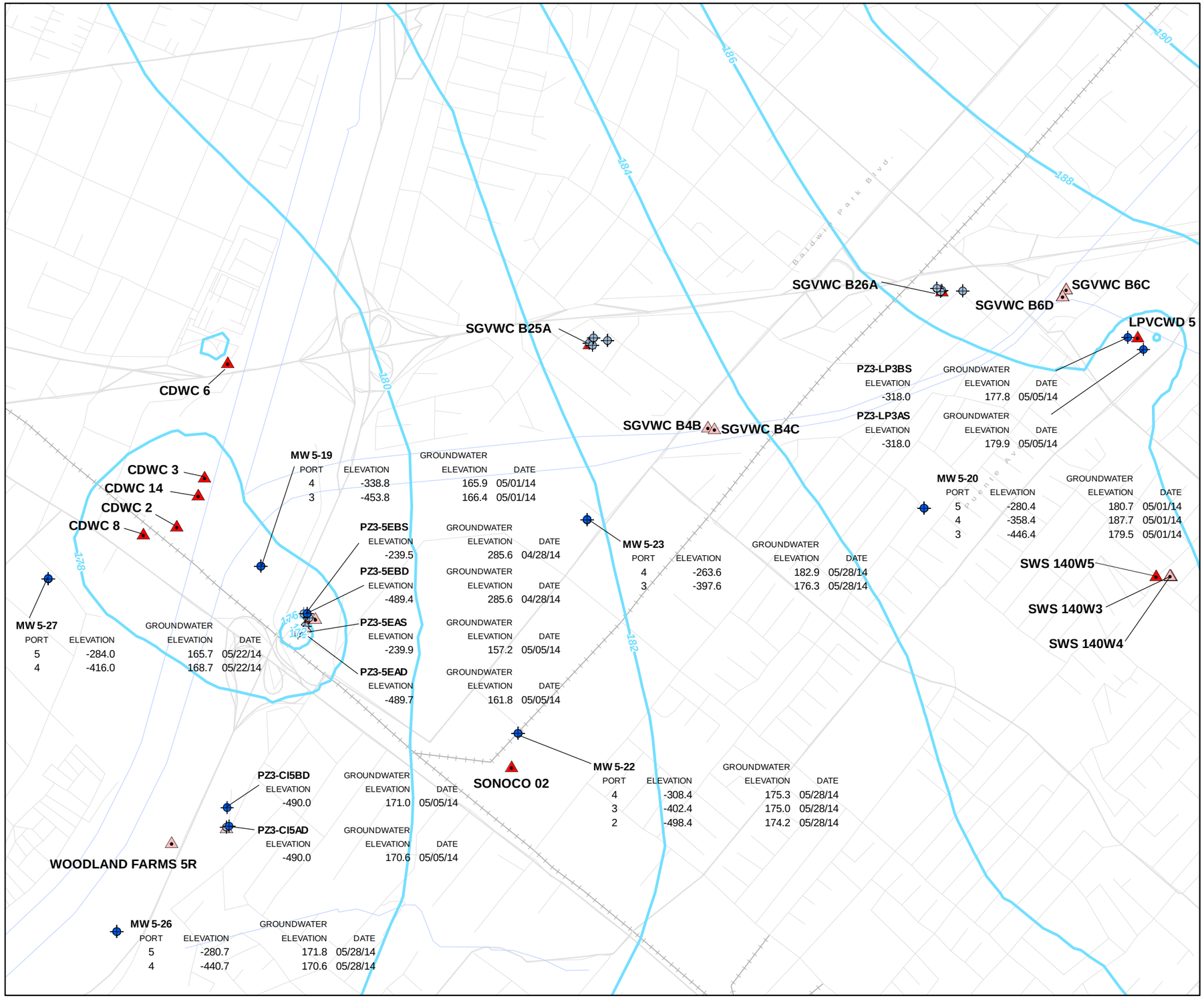
Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **2-16**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-16_Spring2014_Sim_GW_Elevations_above_-200MSL1_SubArea3.mxd



PZ3-LP3BS	ELEVATION	GROUNDWATER ELEVATION	DATE
	-318.0	177.8	05/05/14

PZ3-LP3AS	ELEVATION	GROUNDWATER ELEVATION	DATE
	-318.0	179.9	05/05/14

MW 5-19	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	4	-338.8	165.9	05/01/14
	3	-453.8	166.4	05/01/14

MW 5-20	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	5	-280.4	180.7	05/01/14
	4	-358.4	187.7	05/01/14
	3	-446.4	179.5	05/01/14

PZ3-5EBS	ELEVATION	GROUNDWATER ELEVATION	DATE
	-239.5	285.6	04/28/14

PZ3-5EBD	ELEVATION	GROUNDWATER ELEVATION	DATE
	-489.4	285.6	04/28/14

PZ3-5EAS	ELEVATION	GROUNDWATER ELEVATION	DATE
	-239.9	157.2	05/05/14

PZ3-5EAD	ELEVATION	GROUNDWATER ELEVATION	DATE
	-489.7	161.8	05/05/14

MW 5-23	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	4	-263.6	182.9	05/28/14
	3	-397.6	176.3	05/28/14

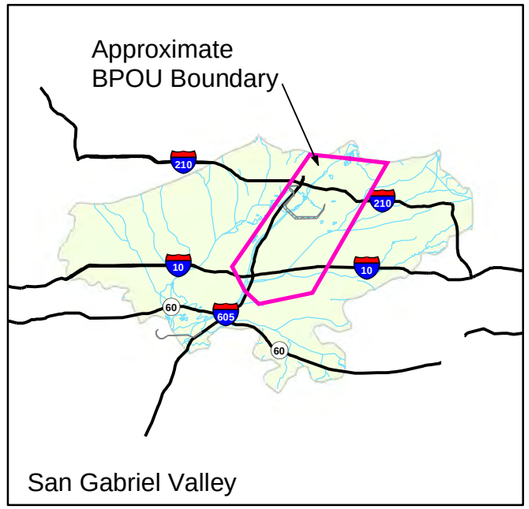
MW 5-27	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	5	-284.0	165.7	05/22/14
	4	-416.0	168.7	05/22/14

MW 5-22	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	4	-308.4	175.3	05/28/14
	3	-402.4	175.0	05/28/14
	2	-498.4	174.2	05/28/14

PZ3-CI5BD	ELEVATION	GROUNDWATER ELEVATION	DATE
	-490.0	171.0	05/05/14

PZ3-CI5AD	ELEVATION	GROUNDWATER ELEVATION	DATE
	-490.0	170.6	05/05/14

MW 5-26	PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
	5	-280.7	171.8	05/28/14
	4	-440.7	170.6	05/28/14



EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not between -200 and -500 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - March 26, 2014

1,300 0 1,300

SCALE IN FEET

N

SUBAREA 3 SIMULATED SPRING 2014 POTENTIOMETRIC SURFACE BETWEEN -200 FEET MSL AND -500 FEET MSL

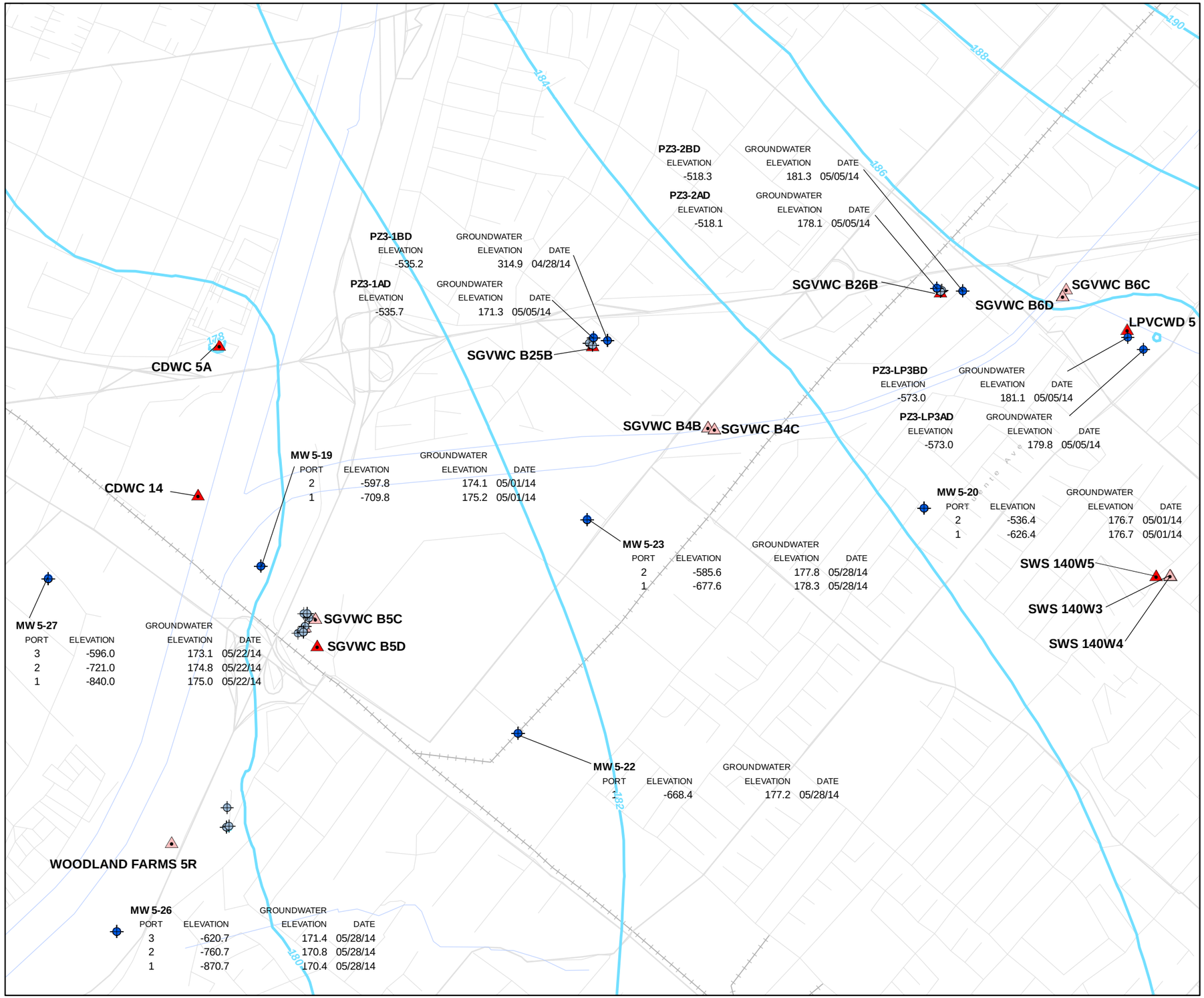
Baldwin Park Operable Unit
San Gabriel Valley, California

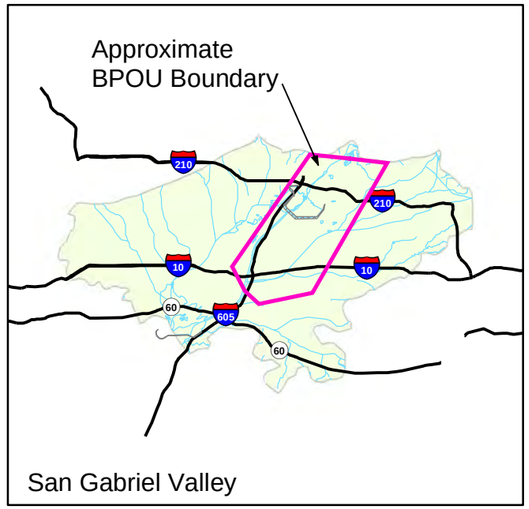
Geosyntec consultants

Project No.: SAC150

Figure 2-17

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-17_Spring2014_Sim_GW_Elevations_between_-200_and_-500MSL1_SubArea3.mxd





EXPLANATION

- Monitoring or multiport well
- Monitoring or multiport well (well midscreen not below -500 feet above mean sea level or groundwater elevation data not available)
- Extraction or pumping well
- Location of production well that was generally inactive from WY2011-12 through WY2013-14
- Potentiometric Surface Elevation Contour interval - 2 ft (elevation in feet above mean sea level)

Note: Simulated head contours from model slice 3 - March 26, 2014.

1,300 0 1,300

SCALE IN FEET

N

SUBAREA 3 SIMULATED SPRING 2014 POTENTIOMETRIC SURFACE BELOW -500 FEET MSL

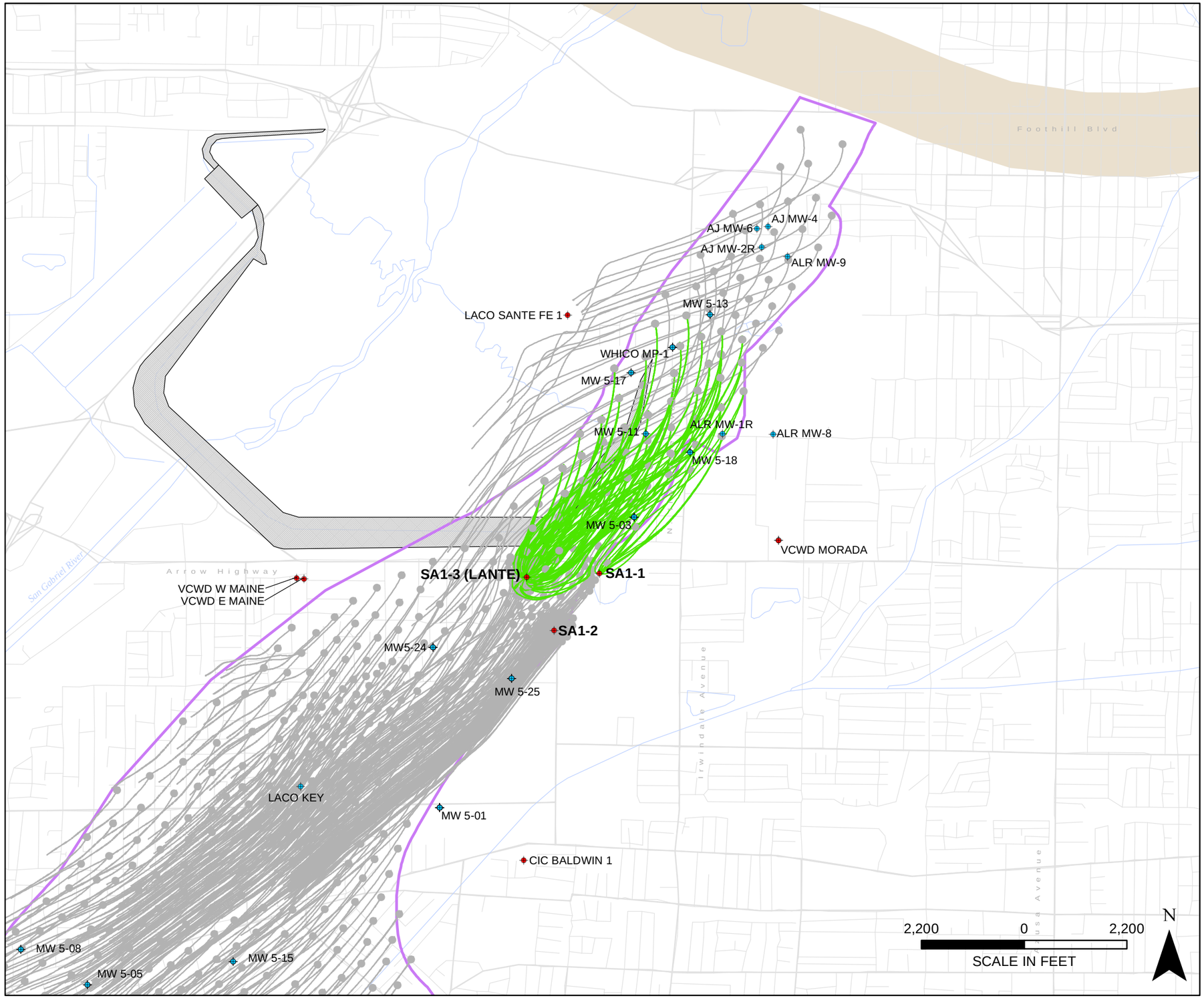
Baldwin Park Operable Unit
San Gabriel Valley, California

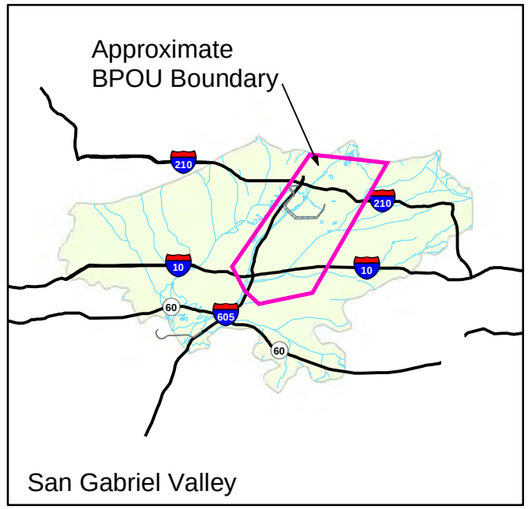
Geosyntec consultants

Project No.: SAC150

Figure **2-18**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\2-18_Spring2014_Sim_GW_Elevations_below_-500MSL1_SubArea3mxd.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Initial particle location

The forward particle tracking is not intended to display actual contaminant sources nor the actual locations where "initial particles" of contamination were originally released into groundwater. The particles do not represent contaminant mass; rather, they solely represent advective groundwater movement and do not take into account dispersion, sorption, or degradation to depict the likely zones of capture as the particles move downgradient through the groundwater. The modeling results in this figure cannot be utilized to infer, suggest, or demonstrate the source of any contamination with any degree of precision. Initial particle locations are located at each model node within the extent of the inferred composite plume. Where nodal spacing is refined, more particles are "released."

NOTES:

1. Three-year particle tracks based on transient flow field.
2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
4. Particle tracks originating from particles released within the composite plume at model slice 3 are shown. For clarity, particles originating at model slices 2 and 4 through 11 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 3.

FORWARD PARTICLE TRACKS SUBAREA 1 ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.09

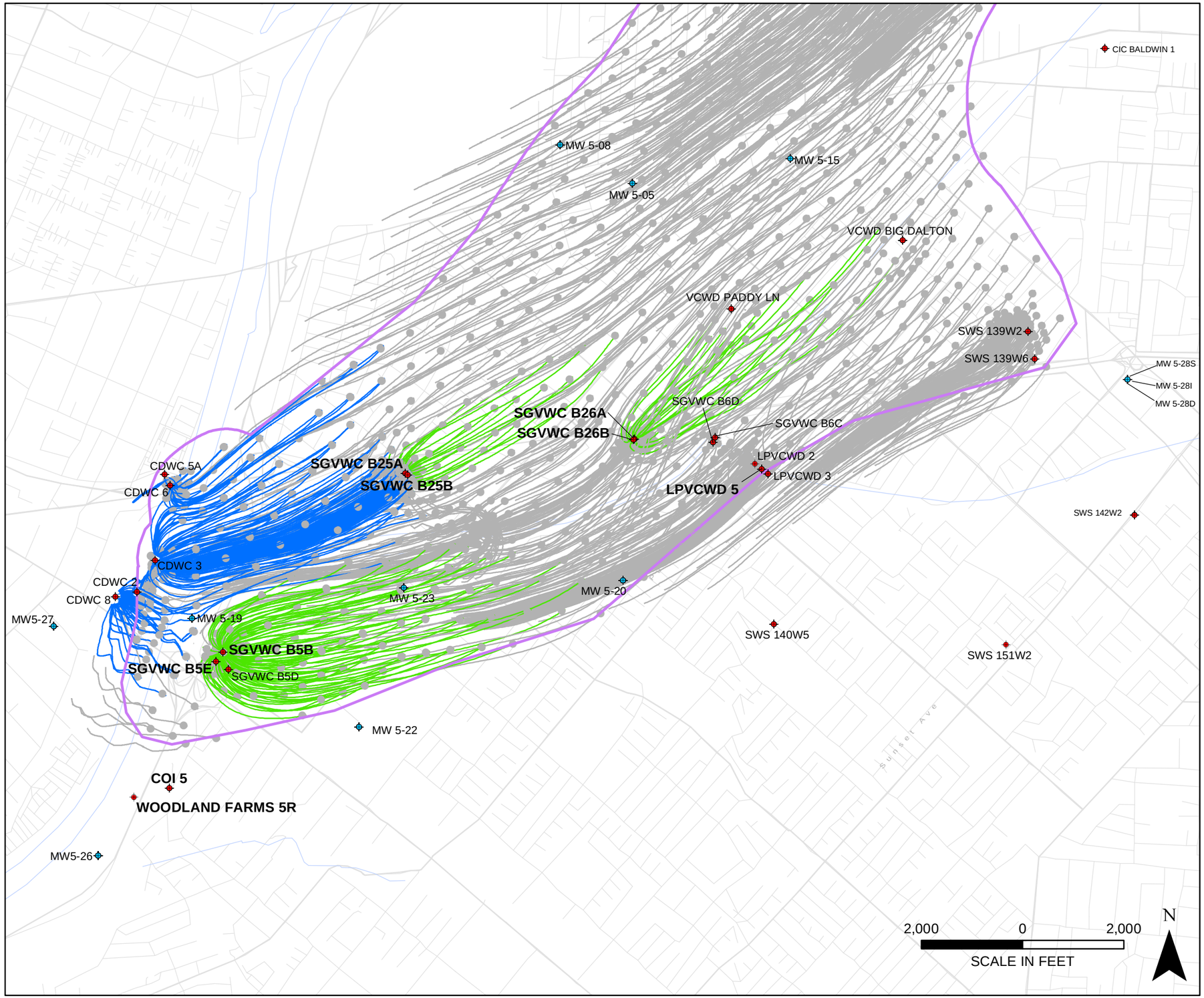
Baldwin Park Operable Unit
San Gabriel Valley, California

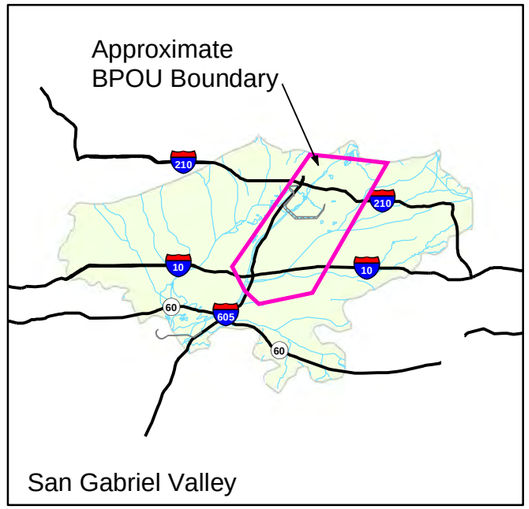
Geosyntec consultants

Project No.: SAC150

Figure **3-1**

Document Path: P:\GIS\SAC150_BPOU\project201507_ModelingAddendum3-01_Fwd_ParticleTracks_SubArea1_3yr_n=09.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

The forward particle tracking is not intended to display actual contaminant sources nor the actual locations where "initial particles" of contamination were originally released into groundwater. The particles do not represent contaminant mass; rather, they solely represent advective groundwater movement and do not take into account dispersion, sorption, or degradation to depict the likely zones of capture as the particles move downgradient through the groundwater. The modeling results in this figure cannot be utilized to infer, suggest, or demonstrate the source of any contamination with any degree of precision. Initial particle locations are located at each model node within the extent of the inferred composite plume. Where nodal spacing is refined, more particles are "released."

NOTES:

1. Three-year particle tracks based on transient flow field.
2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
4. Particle tracks originating from particles released within the composite plume at model slice 3 are shown. For clarity, particles originating at model slice 2 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 3.

FORWARD PARTICLE TRACKS SUBAREA 3 ABOVE -200 FEET MSL ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.09

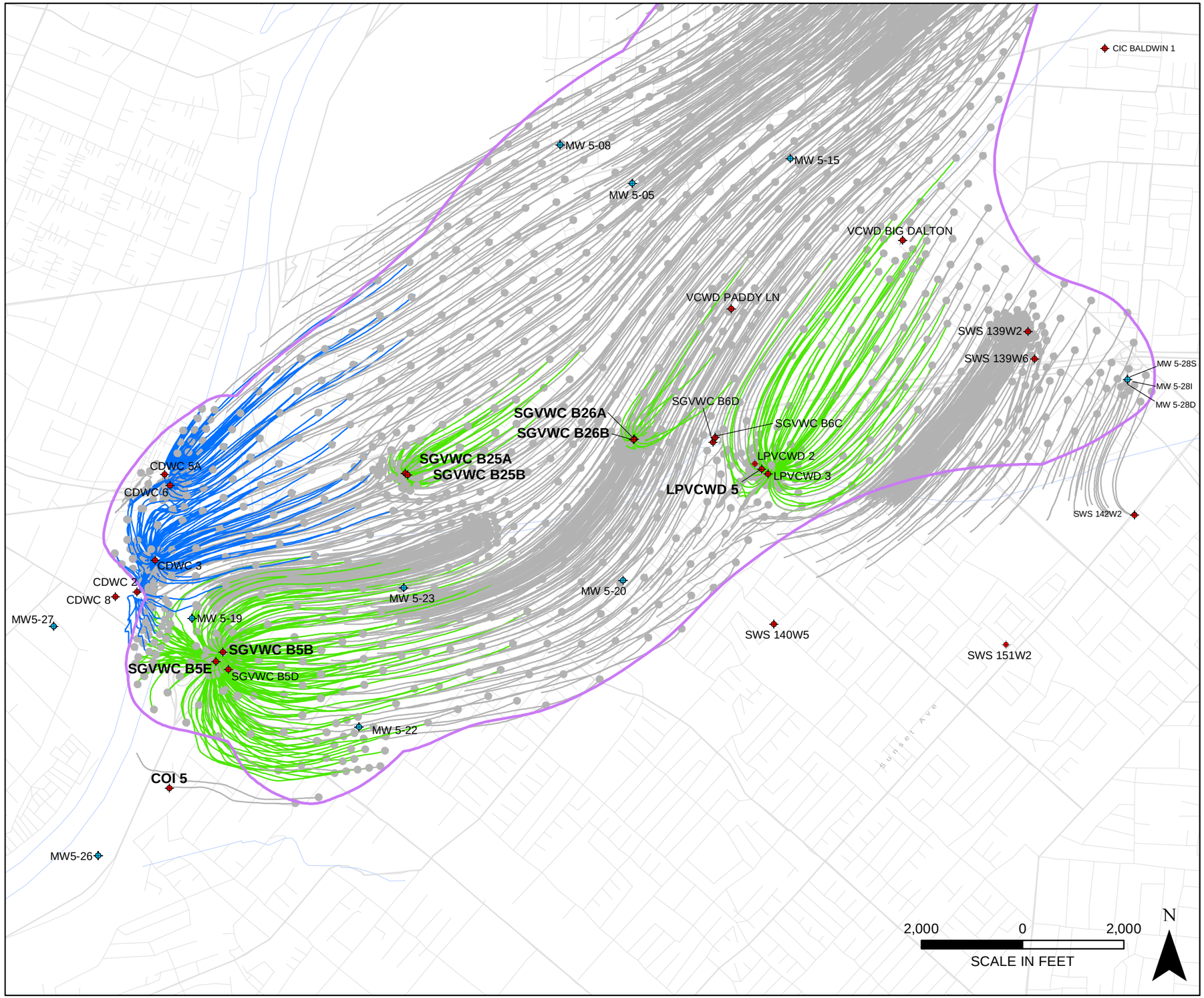
Baldwin Park Operable Unit
San Gabriel Valley, California

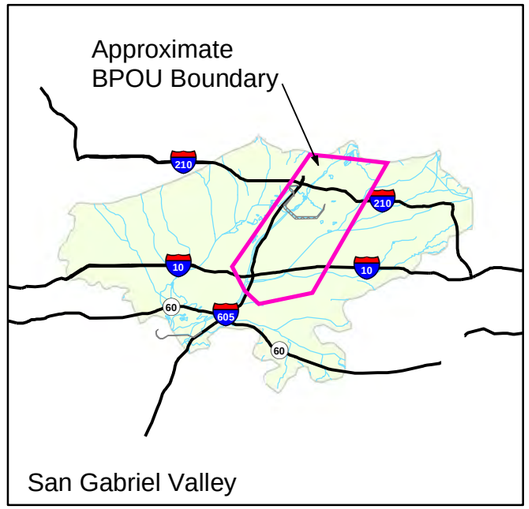
Geosyntec consultants

Project No.: SAC150

Figure **3-2**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\3-02_Fwd_ParticleTracks_SubArea3_shallow_3yr_n=09.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

The forward particle tracking is not intended to display actual contaminant sources nor the actual locations where "initial particles" of contamination were originally released into groundwater. The particles do not represent contaminant mass; rather, they solely represent advective groundwater movement and do not take into account dispersion, sorption, or degradation to depict the likely zones of capture as the particles move downgradient through the groundwater. The modeling results in this figure cannot be utilized to infer, suggest, or demonstrate the source of any contamination with any degree of precision. Initial particle locations are located at each model node within the extent of the inferred composite plume. Where nodal spacing is refined, more particles are "released."

NOTES:

1. Three-year particle tracks based on transient flow field.
2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
4. Particle tracks originating from particles released within the composite plume at model slice 6 are shown. For clarity, particles originating at model slices 4 and 5 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 6.

FORWARD PARTICLE TRACKS SUBAREA 3 BETWEEN -200 AND -500 FEET MSL ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.09

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **3-3**

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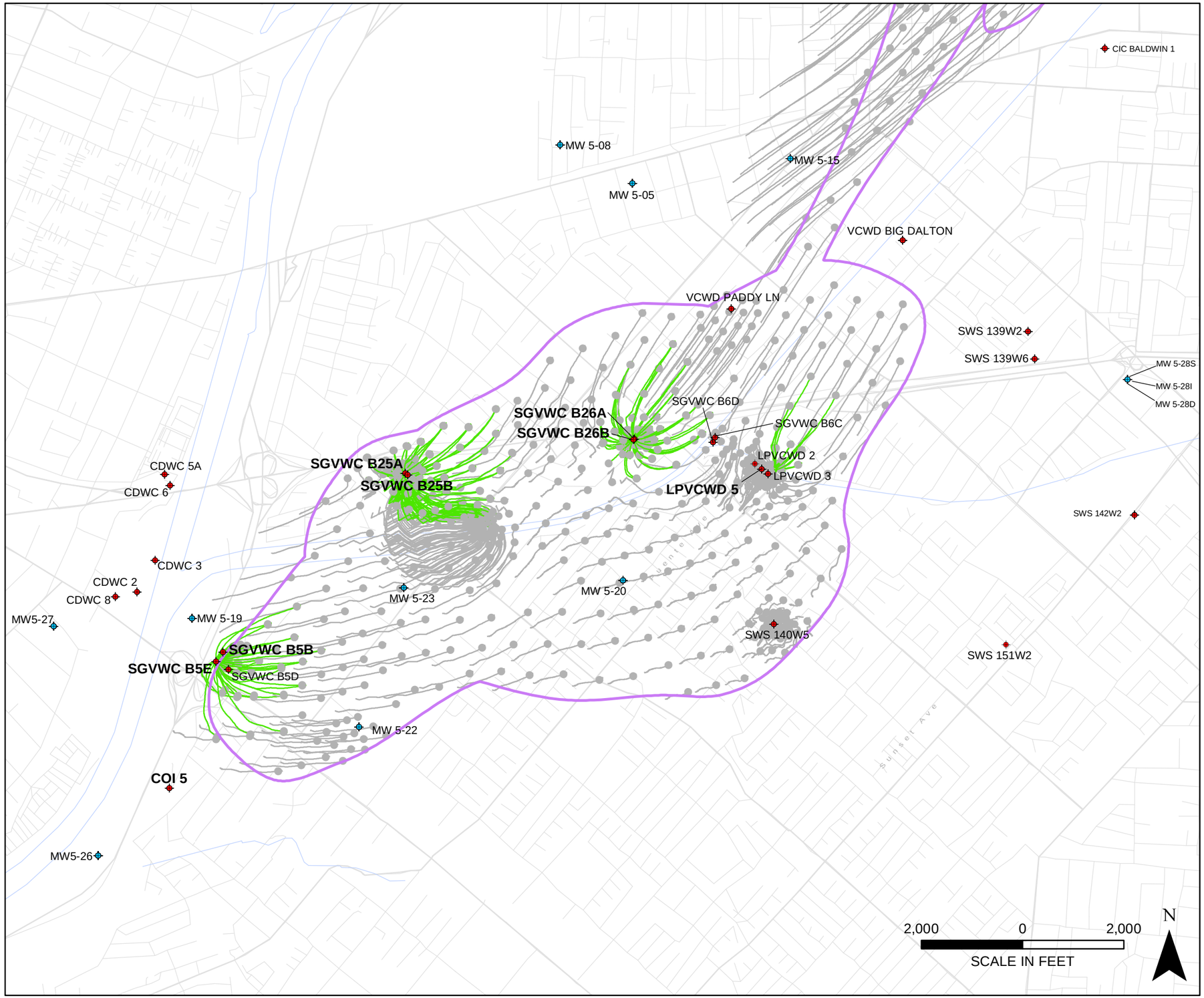

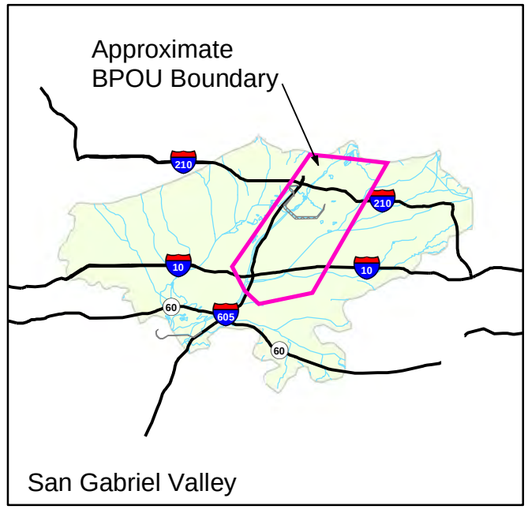

EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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NOTES:

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2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
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FORWARD PARTICLE TRACKS
SUBAREA 3 BELOW -500 FEET MSL
ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.09

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **3-4**

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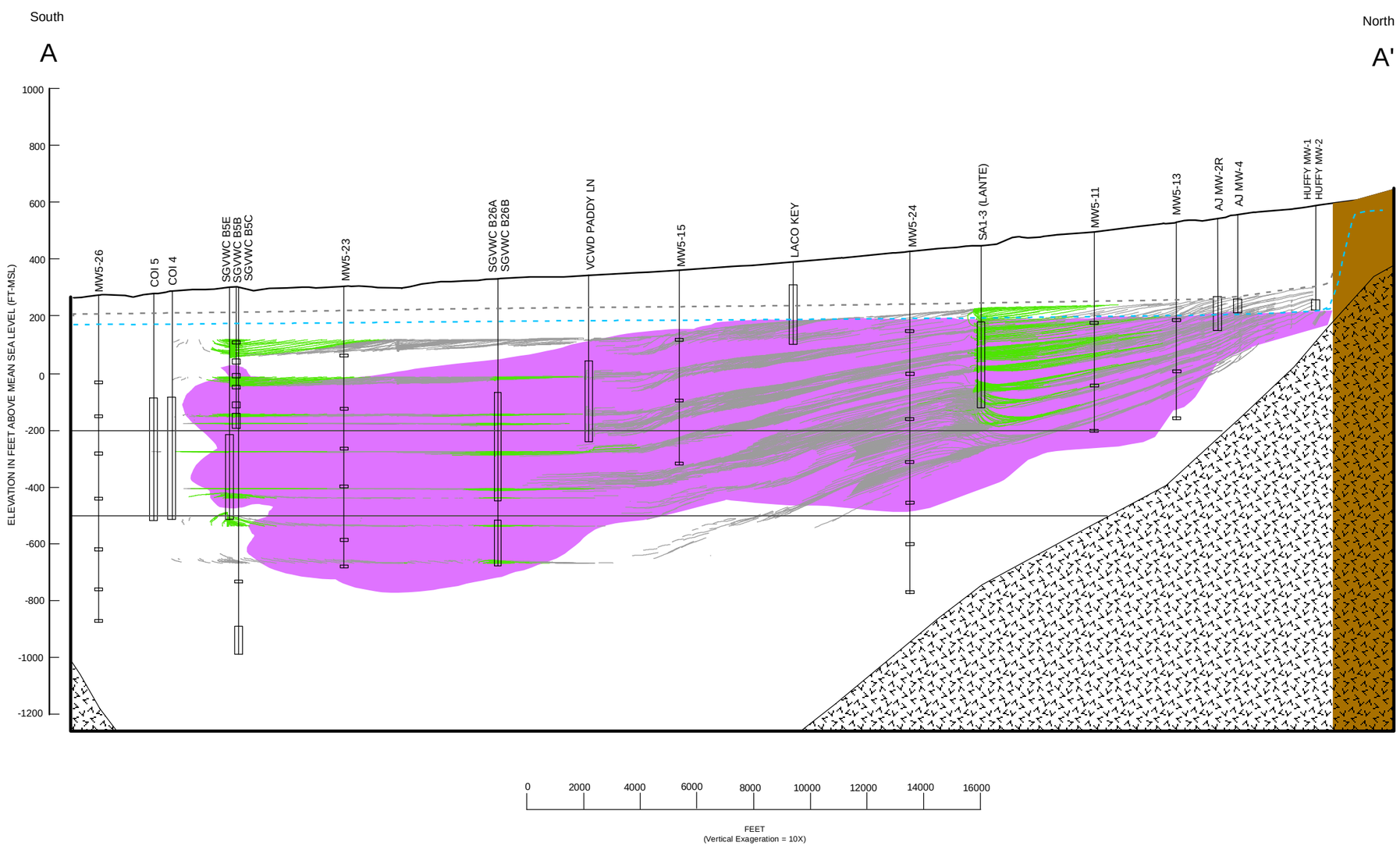

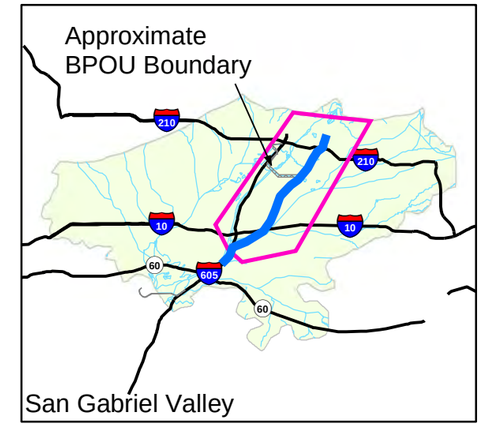

EXPLANATION

COI 4 — Well name

Blank casing

Perforated casing

2014 generalized potentiometric surface

2011 generalized potentiometric surface

Bedrock surface used in BPOU groundwater model based on California DWR Bulletin 104-2, Plate 11, and updated with drilling information from various sources

Duarte fault zone

Interpreted extent of composite COC plume in 2014

Three-year forward particle tracks

Track of particle

Track of particle removed by project extraction well

The forward particle tracking is not intended to display actual contaminant sources nor the actual locations where "initial particles" of contamination were originally released into groundwater. The particles do not represent contaminant mass; rather, they solely represent advective groundwater movement and do not take into account dispersion, sorption, or degradation to depict the likely zones of capture as the particles move downgradient through the groundwater. The modeling results in this figure cannot be utilized to infer, suggest, or demonstrate the source of any contamination with any degree of precision. Initial particle locations are located at each model node within the extent of the inferred composite plume. Where nodal spacing is refined, more particles are "released."

Note:

1. Three-year particle tracks based on transient flow field.

FORWARD PARTICLE TRACKS ON CROSS SECTION A-A', ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.09

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San Gabriel Valley, California

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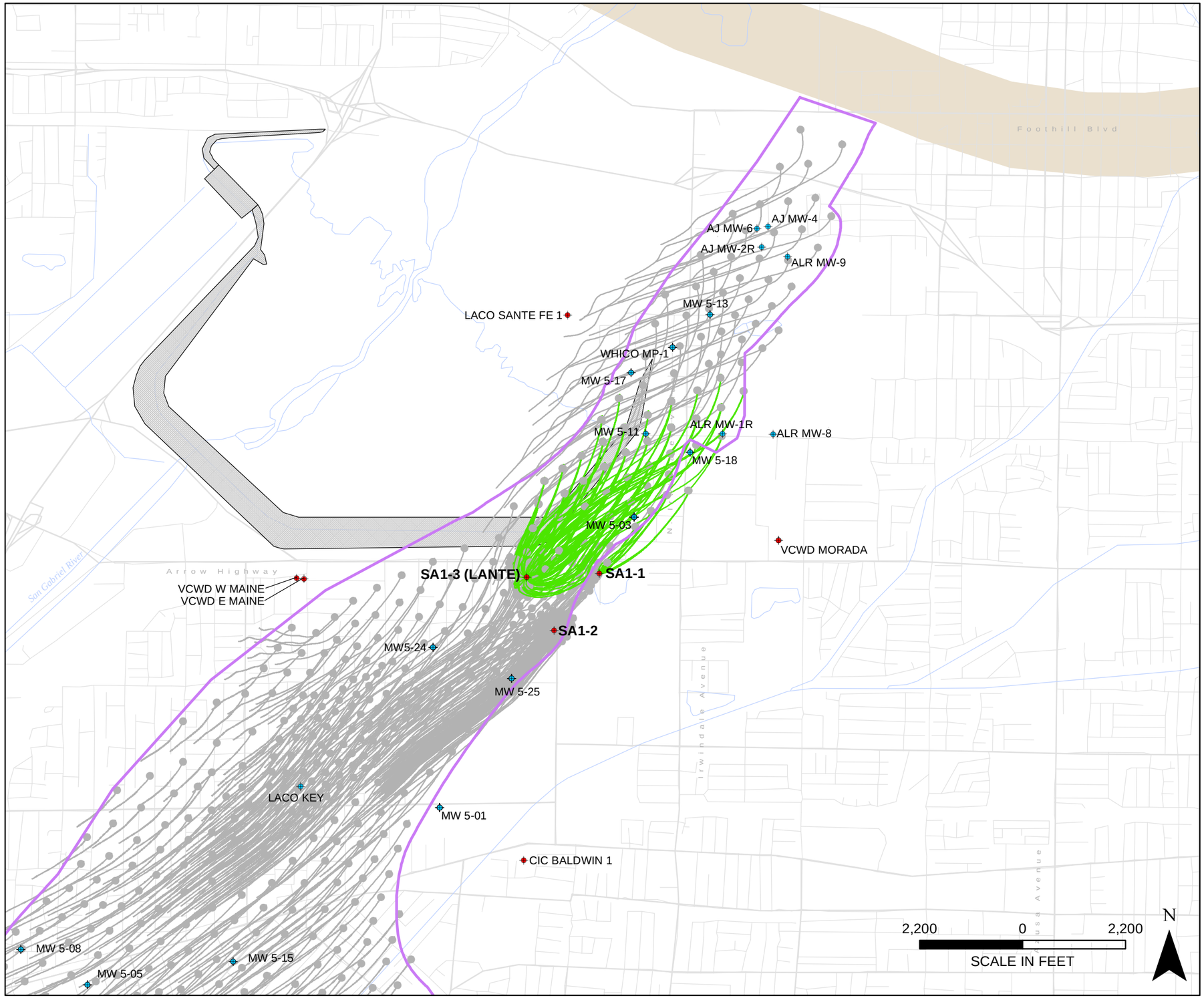
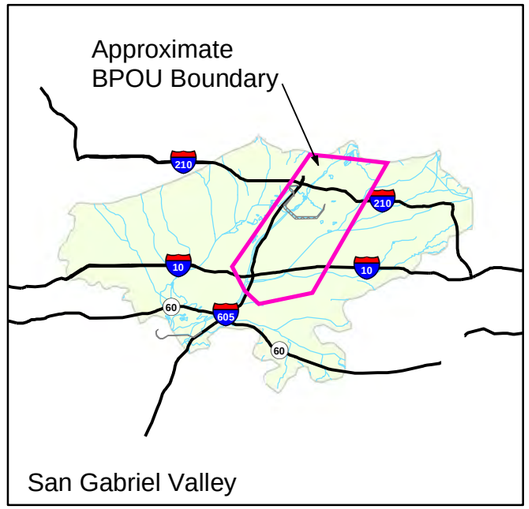
Figure 3-5

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\3-05_Fwd_ParticleTracks_XSect_3yr.mxd

APPENDIX A





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Initial particle location

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NOTES:

1. Three-year particle tracks based on transient flow field.
2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
4. Particle tracks originating from particles released within the composite plume at model slice 3 are shown. For clarity, particles originating at model slices 2 and 4 through 11 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 3.

FORWARD PARTICLE TRACKS
SUBAREA 1 ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.15

Baldwin Park Operable Unit
San Gabriel Valley, California

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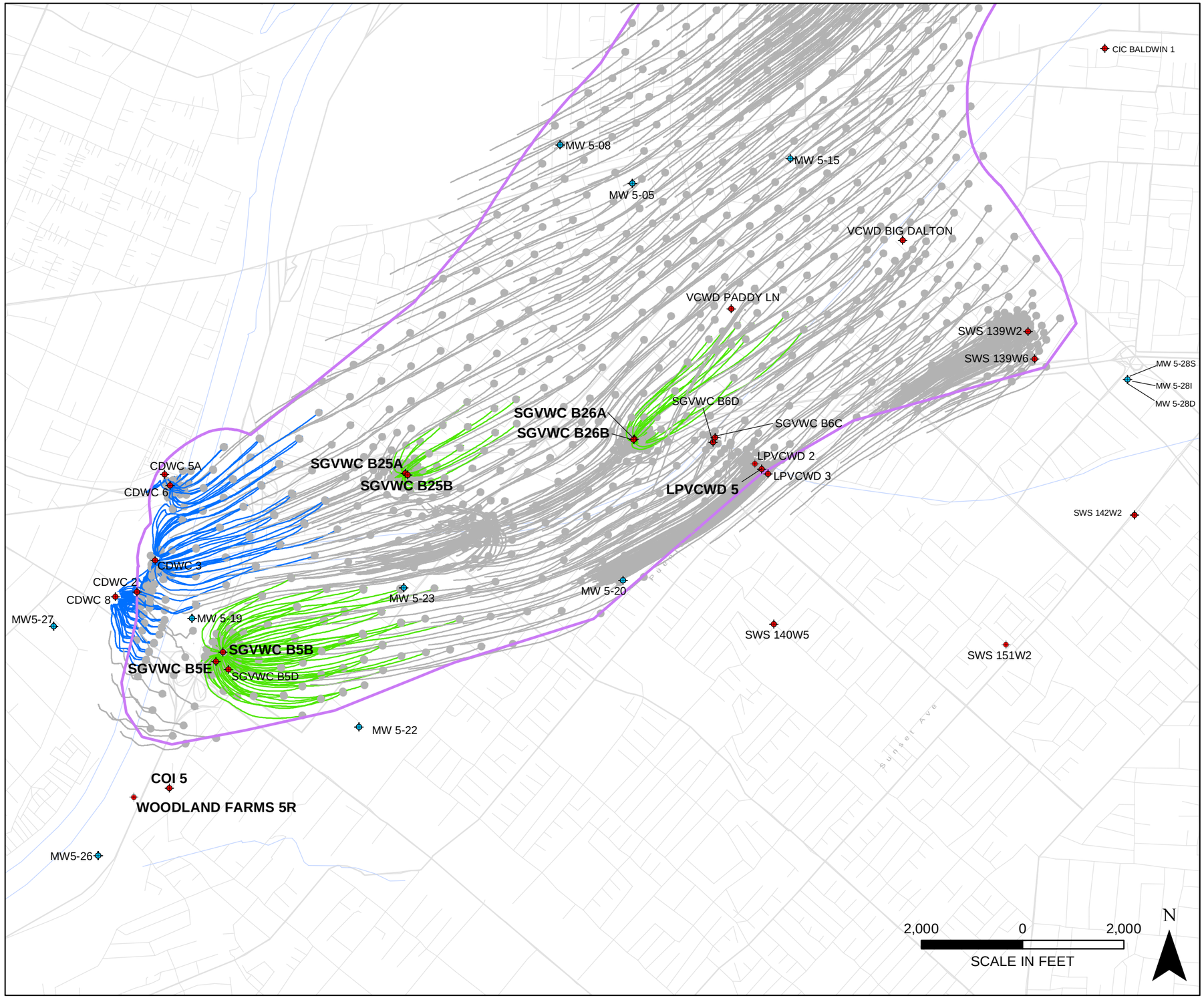
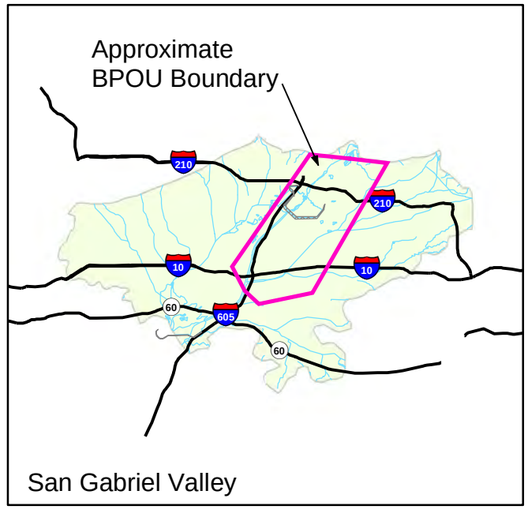
Project No.: SAC150

Figure **A-1**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\Appendix A\A-01_Fwd_ParticleTracks_SubArea1_3yr_n=15.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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4. Particle tracks originating from particles released within the composite plume at model slice 3 are shown. For clarity, particles originating at model slice 2 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 3.

FORWARD PARTICLE TRACKS
SUBAREA 3 ABOVE -200 FEET MSL
ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.15

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **A-2**

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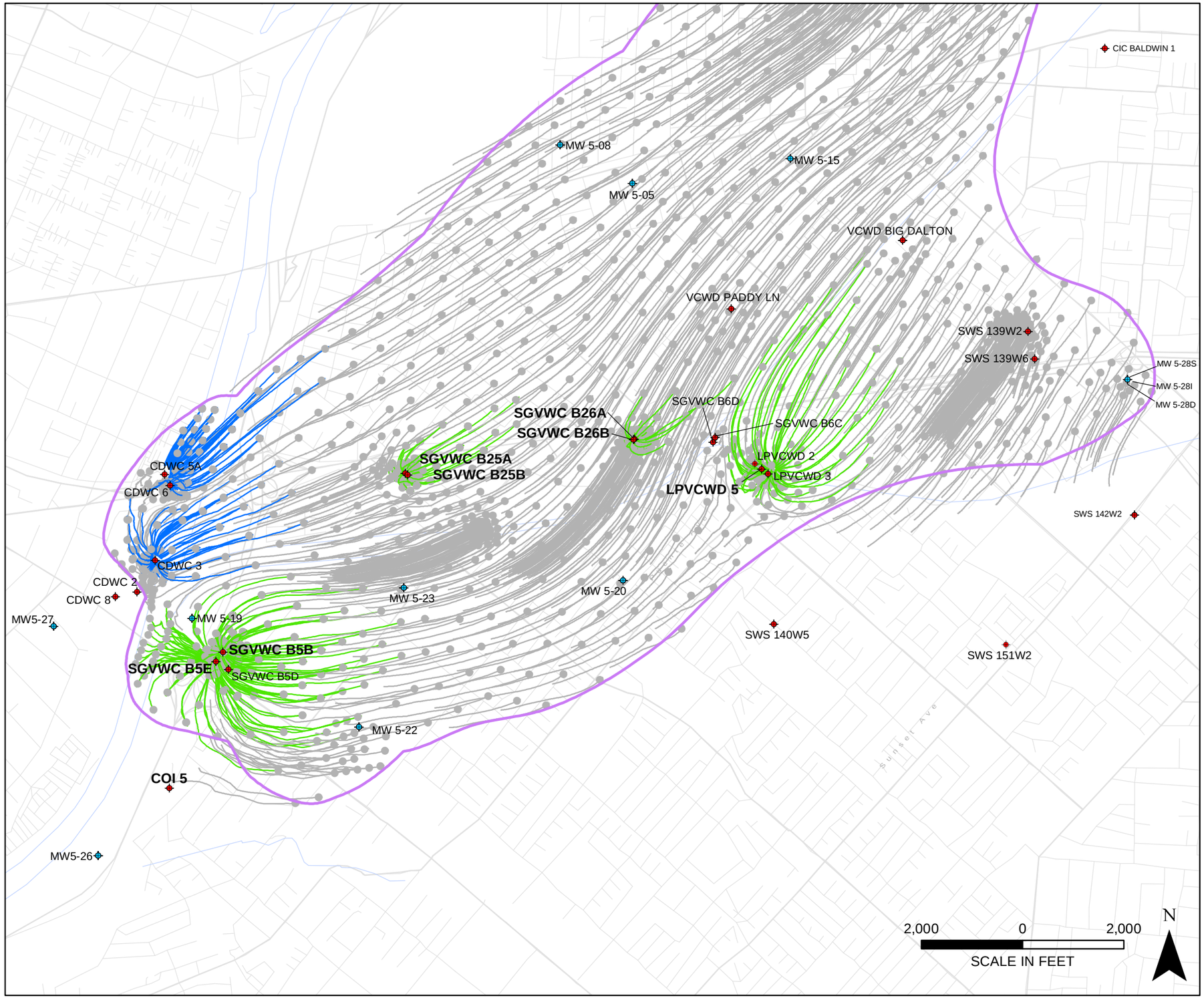

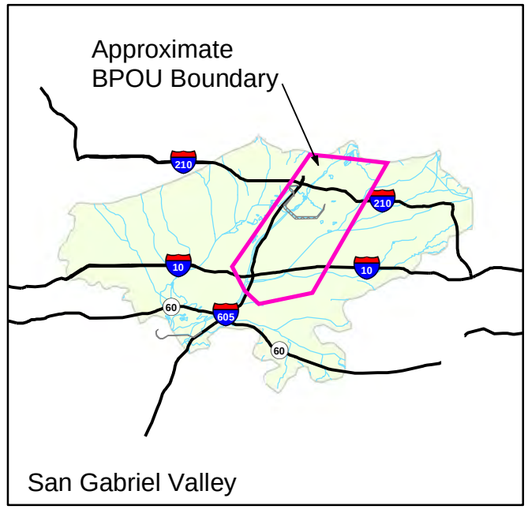

EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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NOTES:

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FORWARD PARTICLE TRACKS SUBAREA 3 BETWEEN -200 AND -500 FEET MSL ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.15

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **A-3**

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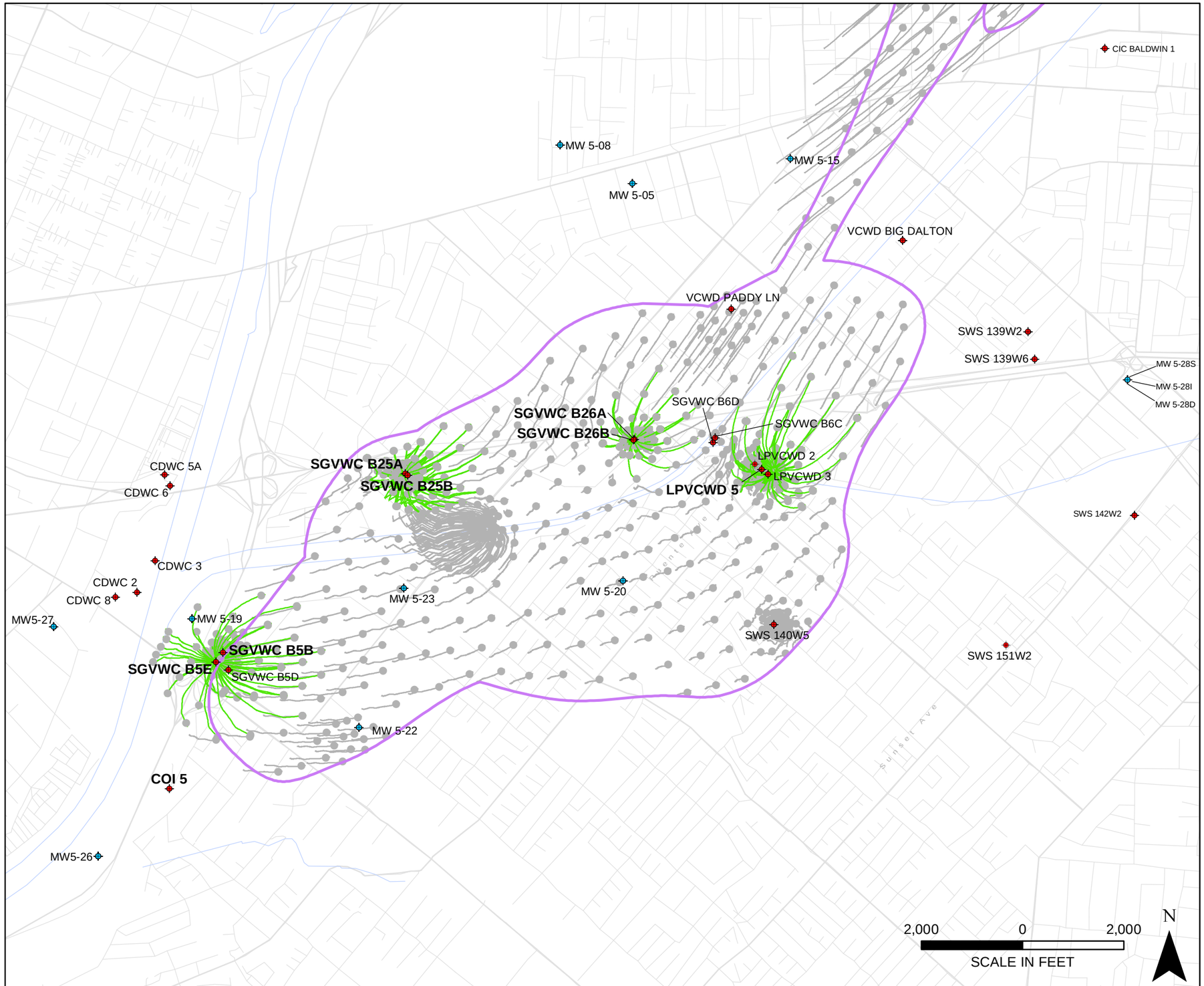

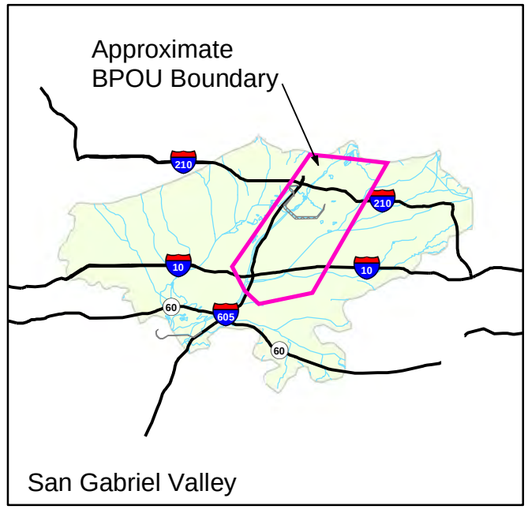

EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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FORWARD PARTICLE TRACKS
SUBAREA 3 BELOW -500 FEET MSL
ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.15

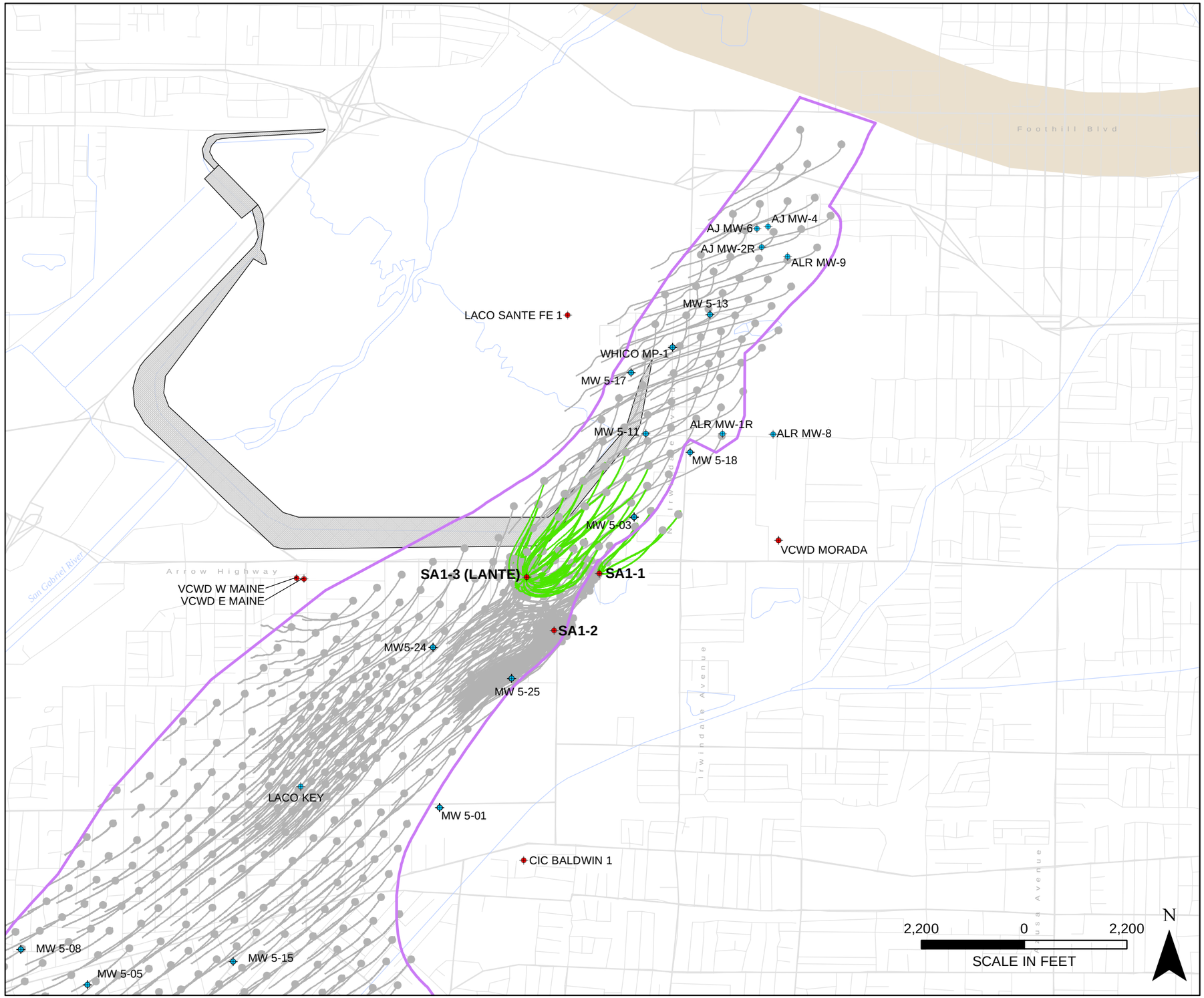
Baldwin Park Operable Unit
San Gabriel Valley, California

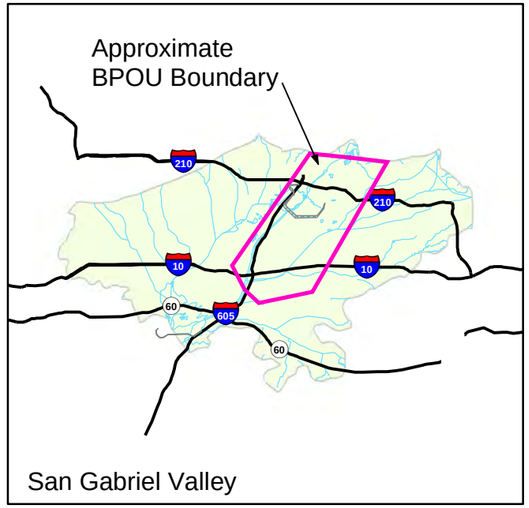
Geosyntec consultants

Project No.: SAC150

Figure **A-4**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\Appendix A\A-04_Fwd_ParticleTracks_SubArea3_deep_3yr_n=15.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Initial particle location

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FORWARD PARTICLE TRACKS SUBAREA 1 ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.30

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **A-5**

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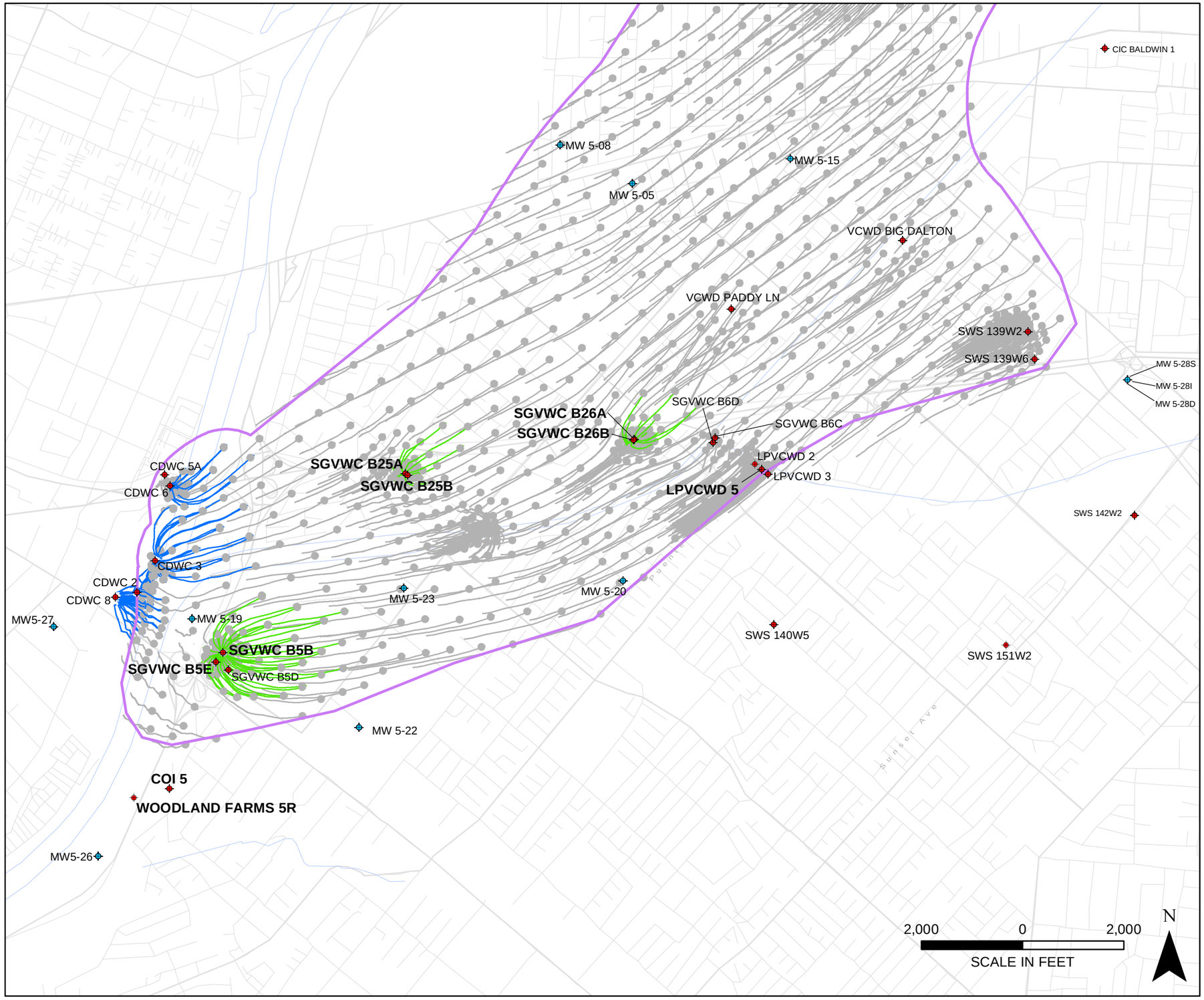

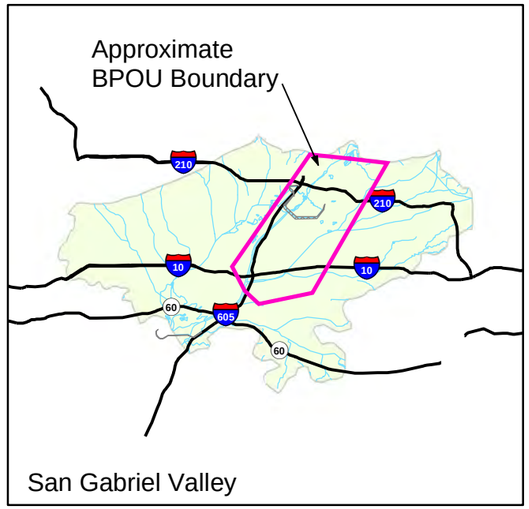

EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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FORWARD PARTICLE TRACKS
SUBAREA 3 ABOVE -200 FEET MSL
ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.30

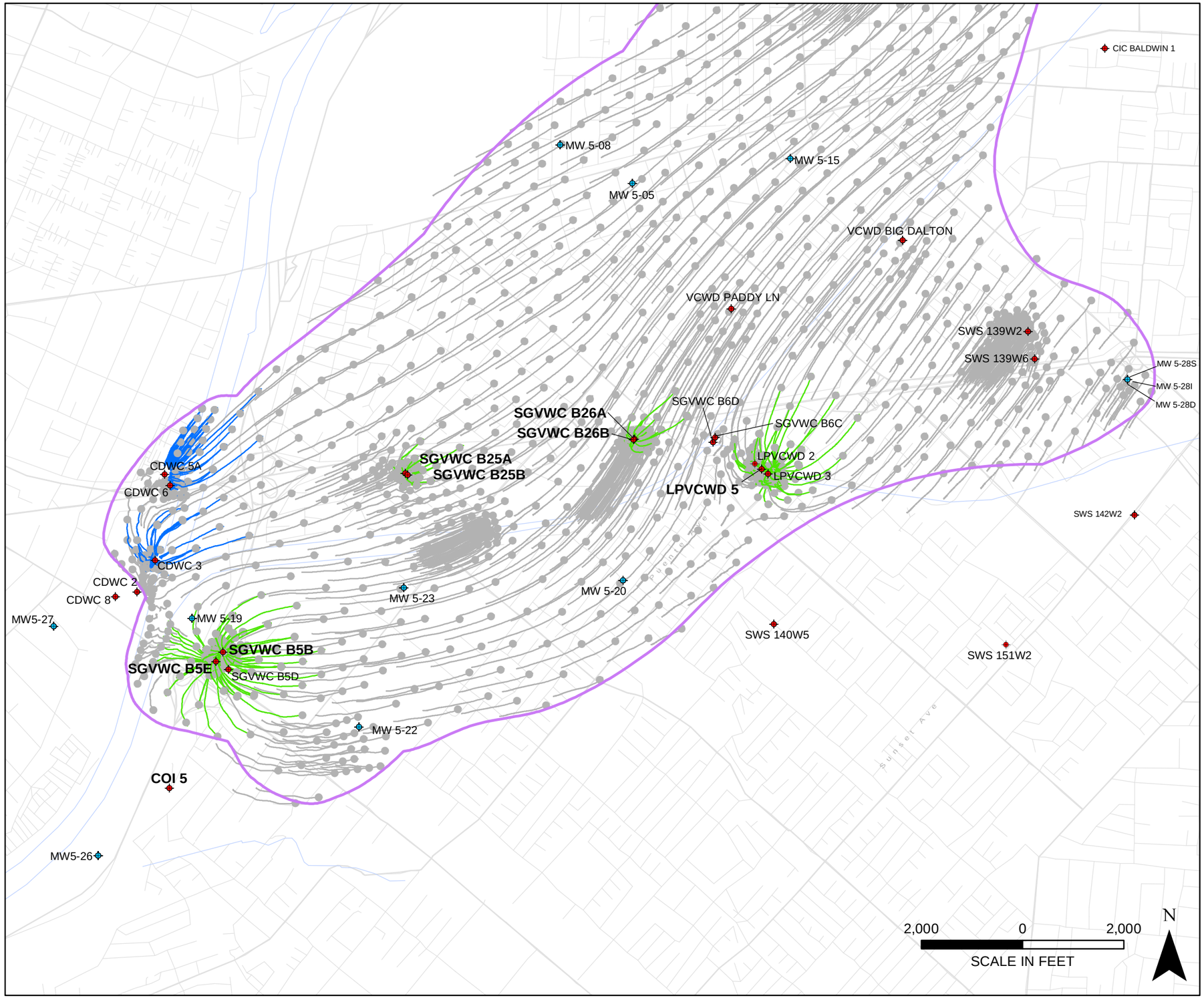
Baldwin Park Operable Unit
San Gabriel Valley, California

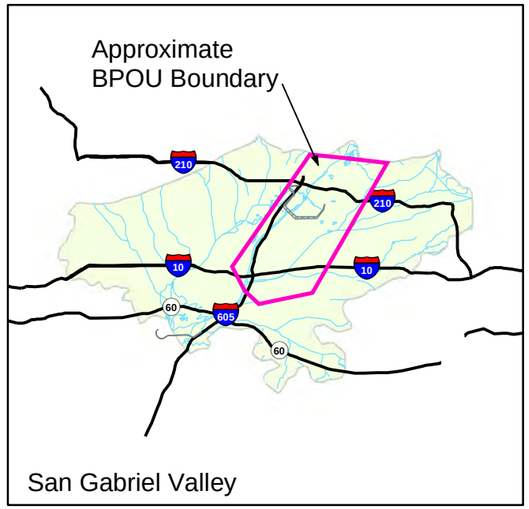
Geosyntec consultants

Project No.: SAC150

Figure **A-6**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\Appendix A\A-06_Fwd_ParticleTracks_SubArea3_shallow_3yr_n=30.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

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FORWARD PARTICLE TRACKS SUBAREA 3 BETWEEN -200 AND -500 FEET MSL ENDING JUNE 30, 2014 EFFECTIVE POROSITY OF 0.30

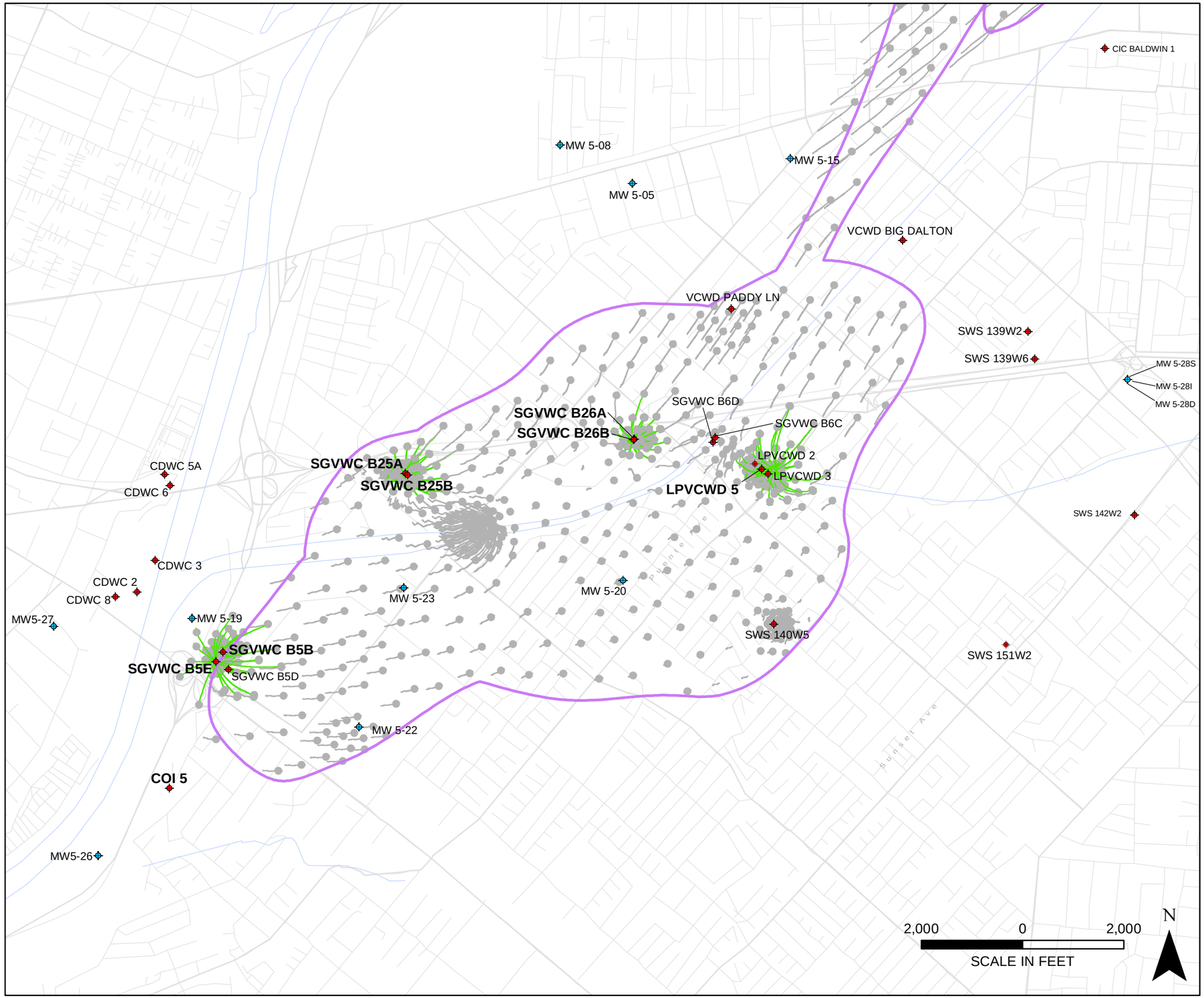
Baldwin Park Operable Unit
San Gabriel Valley, California

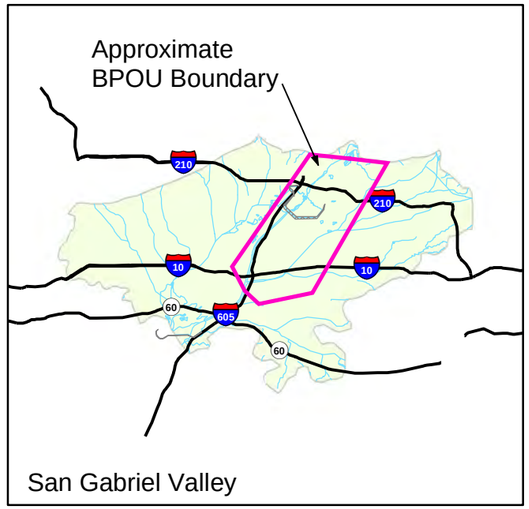
Geosyntec consultants

Project No.: SAC150

Figure **A-7**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\Appendix A\A-07_Fwd_ParticleTracks_SubArea3_Intermediate_3yr_n=30.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Interpreted extent of composite COC plume in 2014 (see note 3 below)
- Duarte fault zone

THREE-YEAR FORWARD PARTICLE TRACKS

- Track of particle
- Track of particle removed by project extraction well
- Track of particle removed by CDWC production well
- Initial particle location

The forward particle tracking is not intended to display actual contaminant sources nor the actual locations where "initial particles" of contamination were originally released into groundwater. The particles do not represent contaminant mass; rather, they solely represent advective groundwater movement and do not take into account dispersion, sorption, or degradation to depict the likely zones of capture as the particles move downgradient through the groundwater. The modeling results in this figure cannot be utilized to infer, suggest, or demonstrate the source of any contamination with any degree of precision. Initial particle locations are located at each model node within the extent of the inferred composite plume. Where nodal spacing is refined, more particles are "released."

NOTES:

1. Three-year particle tracks based on transient flow field.
2. Data from the period modeled were used to create three-dimensional isoconcentration shells of the contaminant. The isoconcentration contours represent the estimated maximum extent of contours of equal concentration above -200 ft MSL.
3. The extent of the composite COC plume was generated by superimposing elevation-discrete isoconcentration contours for 1,4-dioxane, carbon tetrachloride, n-nitrosodimethylamine, perchlorate, trichloroethene, and tetrachloroethene developed using the three-dimensional geospatial modeling software, EarthVision®. See Appendix A of the 2014 Annual Performance Evaluation Report (Geosyntec and ERM, 2015) to review the elevation-discrete isoconcentration contours.
4. Particle tracks originating from particles released within the composite plume at model slice 9 are shown. For clarity, particles originating at model slices 7, 8, 10, and 11 that are captured by multilayer wells are superimposed onto the pathlines of particles released at model slice 9.

FORWARD PARTICLE TRACKS
SUBAREA 3 BELOW -500 FEET MSL
ENDING JUNE 30, 2014
EFFECTIVE POROSITY OF 0.30

Baldwin Park Operable Unit
San Gabriel Valley, California

Geosyntec consultants

Project No.: SAC150

Figure **A-8**

Document Path: P:\GIS\SAC150_BPOU\project\201507_ModelingAddendum\Appendix A\A-08_Fwd_ParticleTracks_SubArea3_deep_3yr_n=30.mxd

APPENDIX B

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1902458	A1902458		0	0	0	0	151	62.4	52.5	52.3	0	0	0	0	0	0	0	0	0
Z1000051	Z1000051		0	0	0	0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
1902457	01902457	AAWC 2 (OLD 1 NORTH)	917	271	83.8	737	1022	888	325	458	763	489	428	24.8	346	290	187	793	770
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	272	363	156	53.9	0	0	0	0	148	92.7	72.9	379	250	28.3	138	530	175
1900012	01900012	ALHAMBRA 10	96.7	48.9	15.7	67.3	106	26.2	37.8	99.3	125	32.7	22.8	114	121	43.2	11.9	113	118
1903014	01903014	ALHAMBRA 11	69.6	44.6	32	29	61.8	19.5	14.2	68.8	86.1	47.4	35	51.3	51.3	35.5	47.5	0	110
1900013	01900013	ALHAMBRA 12	178	21.3	1.38	1.09	0.03	3.34	9.96	8.22	7.52	6.83	8.23	4.92	11.5	7.16	6.99	5.06	6.91
1900014	01900014	ALHAMBRA 13	393	161	22.8	516	614	204	341	557	438	309	314	636	474	394	404	542	467
1900015	01900015	ALHAMBRA 14	220	43	87	61.2	56.2	104	72.8	347	258	73.1	20.5	72	159	60.8	126	61.6	109
1900016	01900016	ALHAMBRA 15	511	207	101	231	366	186	388	383	549	212	257	454	499	256	294	489	521
1903097	01903097	ALHAMBRA 7	385	20.6	25.1	166	493	128	124	133	479	40.7	27.9	284	321	14.6	160	166	265
1900011	01900011	ALHAMBRA 9	177	114	93.5	109	154	101	146	166	193	86.6	111	192	135	102	184	200	141
1902791	01902791	ALHAMBRA BALDWIN 2	283	292	240	274	290	111	283	324	338	242	216	311	279	307	285	256	223
1900018	01900018	ALHAMBRA GARFIELD	198	202	194	0.25	0.26	3.61	4.6	9.13	6.99	6.24	3.11	8.95	9.28	8.07	2.56	4.16	6.59
1902789	01902789	ALHAMBRA LONGDEN 1	99.6	36.4	48.7	62.5	141	43.4	41.5	155	149	55.7	17.9	188	162	91.2	61.3	121	139
1900017	01900017	ALHAMBRA LONGDEN 2	188	100	87.4	94.5	137	182	125	248	368	154	39.3	208	194	126	200	263	331
1900010	01900010	ALHAMBRA MOELLER (8)	392	858	713	862	839	831	793	827	817	838	829	800	835	819	497	862	844
1900791	01900791	AMWC 1	150	93.8	76.7	109	156	87.7	95.1	140	160	95.8	81.7	133	152	94.7	80.9	127	142
1900792	01900792	AMWC 2	70.3	42	33.7	49.2	72.7	30.1	42.6	64.9	76.7	42.9	36.2	65.5	72.2	14.4	35.8	59	68.3
8000177	8000177	ARCADIA 2 STJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	388	56.2	398	468	389	93	483	636	556	415	129	396	493	319	308	476	545
1902078	01902078	ARCADIA CAMINO 2	167	21.4	134	92.3	189	43.2	257	345	297	219	60.3	206	24.1	84.7	170	269	306
8000127	08000127	ARCADIA LIVE OAK 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901013	01901013	ARCADIA LONGDEN 1	0.21	0	0	0.53	0	20.4	0	0	0	104	400	634	471	177	34.4	449	404
1901014	01901014	ARCADIA LONGDEN 2	0	0	0	0.61	0	25.2	0	0	0	75.6	247	452	435	175	24.5	465	530
1902854	01902854	ARCADIA PECK 1	1320	570	524	1111	951	55.8	92.9	1614	1488	472	178	1057	1514	492	642	1054	1134
1902358	01902358	ARCADIA ST JOSEPH 1	498	295	319	468	461	244	666	647	514	389	126	239	657	103	40.4	62.2	68.3
1902106	01902106	ARMWC 1	4	1.8	0.08	0.03	21.9	14	16.8	23.3	14.3	0	0	0	0	22.8	5	18.7	19.7
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902115	01902115	AVWC 4 (NEW ALW 8)	342	116	448	55.3	79.1	72	21.7	516	412	312	71.3	2.37	375	241	362	23.8	106
1902116	01902116	AVWC 5 (NEW ALW 7)	174	162	254	250	273	53.7	40.9	300	275	241	13.8	86.7	3.35	221	75.5	240	394
1902117	01902117	AVWC 6 (NEW ALW 9)	260	0	0	32.9	193	0	0	348	291	22	18.7	173	188	76.3	25.5	208	125
1902425	01902425	AVWC 7	222	53.8	19.1	126	220	6.75	9.97	205	209	126	67	141	197	123	53.7	201	211
8000072	08000072	AZUSA 1 (OLD 7)	152	34.4	13.7	12.2	34.4	35.6	73.8	181	220	177	121	266	285	173	161	331	412
8000086	08000086	AZUSA 3 (OLD 8)	0	0	0	0	6.41	23.1	155	188	386	279	80.7	296	507	190	116	6.36	497
1902533	01902533	AZUSA 5 (OLD 1)	239	117	316	180	192	135	169	296	280	170	115	270	282	273	148	7.19	54.8
1902535	01902535	AZUSA 6 (OLD 3)	615	497	425	417	645	181	706	750	276	197	505	793	544	569	588	234	290
1902536	01902536	AZUSA GEN 1 (OLD 4)	2.73	2.75	5.21	0	0	0.11	0.09	0.14	0	0.46	0	0.53	0	0	0.18	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	29.2	75.6	36	59.5	4.96	0.83	99.4	214	68.5	65.7	123	209	30	5.79	9	59.1
1902538	01902538	AZUSA GEN 3 (OLD 6)	3.42	2.75	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	202	121	114	184	197	190	235	202	167	304	318	299	228	27.7	85.6	117	171
8000178	8000178	AZUSA VWC 11 (Azusa 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1902458	A1902458		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000051	Z1000051		0.17	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	442	90.8	678	687	565	164	90.1	205	45.3	12.1	67.7	779	449	458	50	428	324
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	21.5	168	306	297	263	21.3	252	249	128	46.2	337	312	108	73.2	3.35	204	276
1900012	01900012	ALHAMBRA 10	46.1	40.3	113	110	37.5	58.6	107	116	47.9	35.5	104	114	51.2	37.1	97.7	121	60.8
1903014	01903014	ALHAMBRA 11	81.5	68.8	87.2	99.5	47	19.4	115	413	176	324	387	285	344	318	284	382	325
1900013	01900013	ALHAMBRA 12	6.05	3.92	1.4	3.85	4.86	2.81	3.17	1.66	3.72	2.53	2.21	1.21	0.77	0.94	0.96	1.36	0.94
1900014	01900014	ALHAMBRA 13	361	397	461	358	396	271	312	384	368	273	333	301	501	387	286	420	133
1900015	01900015	ALHAMBRA 14	78.2	87.8	109	220	89.1	3.46	147	84.1	14	142	70.5	168	174	234	175	135	106
1900016	01900016	ALHAMBRA 15	503	434	510	263	294	463	493	511	488	271	475	535	534	523	428	496	430
1903097	01903097	ALHAMBRA 7	59	102	420	595	67.1	85.7	270	151	21.2	0.06	3.29	3.76	1.65	2.34	3.12	3.72	1.99
1900011	01900011	ALHAMBRA 9	0	64	126	91.8	85.2	51	94.6	157	132	157	174	153	144	141	150	142	97.2
1902791	01902791	ALHAMBRA BALDWIN 2	199	219	209	36.3	34.9	48.8	39.7	219	80.2	81.9	215	193	162	142	160	169	169
1900018	01900018	ALHAMBRA GARFIELD	4.45	6.6	4.54	6.29	4.5	1.77	0.89	1.18	1.16	1.41	1.09	1.41	0.76	1.17	1.06	0.57	0.76
1902789	01902789	ALHAMBRA LONGDEN 1	58.8	89	160	180	80.9	25.6	115	167	80.5	172	289	483	344	312	307	390	480
1900017	01900017	ALHAMBRA LONGDEN 2	119	68.2	265	219	80.4	27	125	258	95.2	191	130	319	347	236	222	334	53.7
1900010	01900010	ALHAMBRA MOELLER (8)	833	785	799	815	825	869	859	845	787	267	795	844	844	809	822	782	822
1900791	01900791	AMWC 1	88.5	75.7	128	171	50.4	2.56	78.1	49.2	0.32	0.94	74.6	127	174	75.5	135	159	106
1900792	01900792	AMWC 2	43.1	36.3	64.1	69.2	71.2	115	107	74.9	0.1	0.32	12.7	23.3	25	14.6	30.4	42	39.3
8000177	8000177	ARCADIA 2 STJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	547	235	517	528	457	504	482	465	446	377	426	409	385	312	357	354	339
1902078	01902078	ARCADIA CAMINO 2	318	142	309	147	78.3	318	283	264	260	216	246	239	227	183	57.2	0	110
8000127	08000127	ARCADIA LIVE OAK 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901013	01901013	ARCADIA LONGDEN 1	14.8	0	193	614	812	705	653	761	690	726	738	676	552	537	438	447	430
1901014	01901014	ARCADIA LONGDEN 2	484	370	375	425	502	455	406	497	488	451	445	383	267	331	278	272	259
1902854	01902854	ARCADIA PECK 1	1152	387	1258	1180	936	822	725	1177	535	878	871	1233	555	833	927	1355	782
1902358	01902358	ARCADIA ST JOSEPH 1	31.9	0.7	145	432	120	2.3	28.8	127	2.22	0.8	23.9	457	257	349	284	478	366
1902106	01902106	ARMWC 1	2.93	8.42	14.1	1.61	1.63	2.29	1.72	2.43	1.5	0.58	0.03	1.26	0.14	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	0	0	0	0	0	31.6	700	787	243	59.7	527	1069	1145	825	942	1093	1109
1902115	01902115	AVWC 4 (NEW ALW 8)	29.6	158	118	220	220	172	281	14.4	7.68	36.7	187	130	458	211	136	79.4	524
1902116	01902116	AVWC 5 (NEW ALW 7)	316	241	215	200	179	150	241	227	90.2	128	334	166	268	215	285	304	220
1902117	01902117	AVWC 6 (NEW ALW 9)	2.52	36.9	99.9	128	96.1	77.8	7.34	0	0	0	0	0	0.76	0	0	0	1.03
1902425	01902425	AVWC 7	90.2	140	194	85.2	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	440	345	1.84	47.5	75.4	37.9	125	124	132	92.3	47	75.8	25	27.5	302	406	46.7
8000086	08000086	AZUSA 3 (OLD 8)	406	327	284	736	467	925	837	1107	1106	1179	1269	938	1147	834	1262	1198	1217
1902533	01902533	AZUSA 5 (OLD 1)	82.5	76.9	126	148	136	52.3	26.6	74.9	16.5	2.45	32.9	43.5	10.4	3.81	26.9	20.8	1.52
1902535	01902535	AZUSA 6 (OLD 3)	179	405	573	414	62.7	438	747	657	326	200	485	483	264	303	564	398	275
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	14.4	1.06	0.28	0.53	5.99	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	99.6	130	95.4	8.04	0.03	7.79	23.2	47.3	1.53	3.03	39	38.6	73.5	32.6	31.1	50.3	18.5
8000178	8000178	AZUSA VWC 11 (Azusa 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1902458	A1902458		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	376	605	388	462	327	392	208	638	447	993	707	704	585	427	850	552	320
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	191	245	440	182	95.2	108	348	46.8	32.2	246	516	180	197	303	663	271	203
1900012	01900012	ALHAMBRA 10	30.8	97.5	114	55	13.7	92.8	112	38.5	12.3	95.8	106	45.3	29.5	78.3	112	46.6	17.2
1903014	01903014	ALHAMBRA 11	266	348	336	346	218	333	387	312	303	229	237	234	288	297	340	223	218
1900013	01900013	ALHAMBRA 12	1.22	1.01	1.27	0.49	0	1.2	0.19	0	0	0	8.09	5.43	5.08	1.24	0.92	0	0.78
1900014	01900014	ALHAMBRA 13	133	162	156	432	71.2	518	159	143	334	430	240	123	7.08	235	341	404	555
1900015	01900015	ALHAMBRA 14	66.7	40.1	11.9	140	21.3	79.6	46.4	35.7	64.3	261	213	90.2	31.4	37.1	193	108	59.3
1900016	01900016	ALHAMBRA 15	253	220	495	388	280	414	493	282	64.1	508	455	257	141	272	473	189	213
1903097	01903097	ALHAMBRA 7	3.23	3.48	3.82	0	0.9	1.86	0.56	0	0	0	0	0.1	0	0	0	10.8	0
1900011	01900011	ALHAMBRA 9	11.6	1.54	1.52	2.44	0.82	3.59	2.69	0.99	0.5	0.37	14.4	7.94	9.67	7.64	148	114	35.7
1902791	01902791	ALHAMBRA BALDWIN 2	151	154	139	10.9	177	188	192	186	163	198	194	134	189	181	173	77.2	50.2
1900018	01900018	ALHAMBRA GARFIELD	1.09	0.73	1.41	0.59	0	1.08	0.09	0	0	0	2.85	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	203	291	356	480	277	423	460	361	418	489	431	378	360	391	419	354	358
1900017	01900017	ALHAMBRA LONGDEN 2	44.4	68.2	129	92.2	130	150	399	117	88	228	120	42.1	27.2	50.7	236	103	57.2
1900010	01900010	ALHAMBRA MOELLER (8)	792	617	620	808	788	118	712	637	219	51.1	916	926	894	915	892	785	0
1900791	01900791	AMWC 1	64.2	86.3	114	62.2	30.1	74	133	36.2	45	48.8	53	87	59.2	36.1	95.4	91.1	0.67
1900792	01900792	AMWC 2	53.2	46.7	46	58.3	71	56.6	37	84.5	35	3.72	105	29.9	23.5	113	95.7	51.3	33.2
8000177	8000177	ARCADIA 2 STJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	324	317	306	307	303	323	326	318	162	0.17	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	286	0	229	147	0	264	336	292	148	0.29	0.79	10.4	8.83	49	324	205	32.1
8000127	08000127	ARCADIA LIVE OAK 1	0	0	275	84.7	23.1	105	218	31.7	87.6	29	102	80.9	294	941	441	591	204
1901013	01901013	ARCADIA LONGDEN 1	425	506	305	389	252	453	642	161	182	880	957	40.9	26.5	286	820	251	122
1901014	01901014	ARCADIA LONGDEN 2	247	60	168	730	437	585	833	545	82.1	462	3.57	104	13.2	257	780	170	141
1902854	01902854	ARCADIA PECK 1	661	762	681	0	0.02	0	43.5	40.3	617	1630	1556	1194	522	0	600	98.6	183
1902358	01902358	ARCADIA ST JOSEPH 1	260	119	234	102	31.4	74.8	286	113	58.8	231	262	38.2	8.02	34.3	64.4	288	29.8
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000119	08000119	ATTALLA	0	0	7.56	0	0	2.34	0.06	0	0	0.51	1.32	0	0	0.3	0.48	0.91	0.03
8000103	08000103	AVWC 10 (OLD ALW 8)	1007	493	455	6.44	517	365	759	177	300	328	800	134	46.8	406	1138	401	491
1902115	01902115	AVWC 4 (NEW ALW 8)	131	4.16	58.3	1.02	273	176	318	26.4	287	5.56	4.21	3.32	11.8	38.6	5.97	0.01	655
1902116	01902116	AVWC 5 (NEW ALW 7)	207	331	184	150	262	209	145	155	345	8	10.2	2.17	13.1	65.6	100	2.17	151
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	6.09	22.4	0	0	121	47.8	141	11.6	22.9	45.7	63.3	28.8	22.9	13.5	3.78	0.76	1.24
8000086	08000086	AZUSA 3 (OLD 8)	817	829	1025	629	746	1181	1148	635	652	647	1272	953	1050	1292	1322	1343	1431
1902533	01902533	AZUSA 5 (OLD 1)	22.3	8.68	21.2	65.1	21.1	26	48.8	7.54	44.1	31.9	13.2	0	0	0	31.6	6.21	21.8
1902535	01902535	AZUSA 6 (OLD 3)	134	206	309	464	192	299	495	429	275	277	258	206	97.5	187	36.5	73.5	9.95
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	18	7.06	18.3	4.38	10.2	7.02	15.9	0.03	0	0	0	0	1.03	0.01	0.76	6.65	1.12
8000178	8000178	AZUSA VWC 11 (Azusa 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1902458	A1902458		0	613	148	57	693	309	321	739	627	278	83.5	0	251	969	808	731	342
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	712	1035	852	566	1171	1222	0	5	144	104	0.06	4.06	6.09	21.5	1.6	679	38.9
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900012	01900012	ALHAMBRA 10	79.7	116	40	17	92	115	37	55	69	110	37.4	6.59	51.4	97.4	36.5	24.4	75.8
1903014	01903014	ALHAMBRA 11	263	367	73	65	137	280	13	145	337	294	192	170	282	288	195	213	190
1900013	01900013	ALHAMBRA 12	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900014	01900014	ALHAMBRA 13	484	343	331	104	343	319	362	248	309	333	233	128	126	226	0.79	0	0
1900015	01900015	ALHAMBRA 14	73.9	153	132	111	154	255	184	164	422	311	265	147	333	369	426	311	269
1900016	01900016	ALHAMBRA 15	222	460	289	185	383	453	232	212	469	453	125	67.4	290	499	232	383	308
1903097	01903097	ALHAMBRA 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900011	01900011	ALHAMBRA 9	25.5	117	59	89	127	214	150	200	212	170	131	148	175	177	151	88.9	121
1902791	01902791	ALHAMBRA BALDWIN 2	184	182	172	157	146	161	153	139	141	140	139	135	18.5	142	65.8	124	144
1900018	01900018	ALHAMBRA GARFIELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	302	383	373	292	347	334	339	161	0	0	83.7	344	482	392	284	32.4	73.8
1900017	01900017	ALHAMBRA LONGDEN 2	55.7	178	24	3	100	251	55	1	38	527	262	22.8	38.4	133	217	228	617
1900010	01900010	ALHAMBRA MOELLER (8)	754	872	912	905	893	885	779	869	875	856	858	691	319	859	807	860	855
1900791	01900791	AMWC 1	58	136	60	52	177	132	126	129	166	152	140	118	145	138	137	135	130
1900792	01900792	AMWC 2	56.7	84	50	13	15	44	1	0	32	75.6	6.8	0.57	1.05	102	10.5	0.27	12.1
8000177	8000177	ARCADIA 2 STJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	107	271	253	297	321	314	11	251	258	250	160	215	207	0	0	0	0
8000127	08000127	ARCADIA LIVE OAK 1	1013	1037	643	243	835	865	513	1427	1580	1607	558	614	885	1488	509	379	1027
1901013	01901013	ARCADIA LONGDEN 1	77.3	203	251	234	173	0	0	0	0	0.05	160	473	475	426	265	241	238
1901014	01901014	ARCADIA LONGDEN 2	68.3	35	1	179	483	874	329	53	53	193	5.88	2.1	94.5	184	470	348	274
1902854	01902854	ARCADIA PECK 1	711	1233	1175	1139	1146	1161	657	311	624	886	557	318	338	291	159	324	511
1902358	01902358	ARCADIA ST JOSEPH 1	56	103	113	72	118	136	10	61	96	265	50	99	483	643	352	73.8	58.8
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	1	1.46	0.18	0	1.44	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	545	1106	405	557	1021	995	563	351	481	900	260	201	404	426	140	0.42	41.2
1902115	01902115	AVWC 4 (NEW ALW 8)	9.09	96	12	682	751	63	369	207	2	0.65	483	516	68.8	78.9	50.1	9.62	46.7
1902116	01902116	AVWC 5 (NEW ALW 7)	126	153	244	102	237	322	236	352	245	336	240	199	299	176	94.7	16	145
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	0	24	239	22	38	1093	628	77	750	1166	611	85.1	610	501	310	258	922
8000086	08000086	AZUSA 3 (OLD 8)	1463	1421	1316	1191	15	140	1517	1476	1248	1329	1464	1450	1473	1445	1236	417	1378
1902533	01902533	AZUSA 5 (OLD 1)	0.16	3	174	102	1	5	1	1	1	1.18	0.84	0	0.29	0.58	0	0.01	0.33
1902535	01902535	AZUSA 6 (OLD 3)	0.52	108	0	133	552	399	50	26	272	417	294	399	125	810	275	102	403
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	4.85	18	10	5	8	0	0	26	11	16.3	7.16	2.32	6.01	12	10.7	4.28	26.2
8000178	8000178	AZUSA VWC 11 (Azusa 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1902458	A1902458		341	397	508	1001	961	736	264	778	917	594	547	892	931	874	911	704	724
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	946	91.7	92.8	63.7	157	4.48	45.6	284	611	14.6	0.16	244	175	14.7	6.11	1189	1276
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900012	01900012	ALHAMBRA 10	74.9	48.9	20.3	87.7	117	44.2	26.3	87	90	32	25.6	93.5	100	32.9	26	67.3	77.3
1903014	01903014	ALHAMBRA 11	155	0	0	0	229	306	279	249	234	136	0	205	227	229	220	208	205
1900013	01900013	ALHAMBRA 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900014	01900014	ALHAMBRA 13	0	0	0	0	0	7.97	0	0	279	446	423	401	369	264	0	506	565
1900015	01900015	ALHAMBRA 14	468	457	235	482	434	436	426	374	446	477	472	471	456	448	450	437	404
1900016	01900016	ALHAMBRA 15	467	384	187	424	459	363	162	114	247	165	176	1.5	0	264	298	311	417
1903097	01903097	ALHAMBRA 7	0	0	0	0	0	0	0	0	211	0	0	0	4.3	71.2	30.1	110	227
1900011	01900011	ALHAMBRA 9	182	185	130	149	48	0	0	0	0	0	0	0	0	0	0	0	1.04
1902791	01902791	ALHAMBRA BALDWIN 2	123	113	107	106	96.4	105	97	99.4	95.9	97.1	92.2	88.6	89	87.2	83.3	85.4	87.4
1900018	01900018	ALHAMBRA GARFIELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	408	159	47	351	396	322	352	246	293	201	261	324	387	378	394	261	244
1900017	01900017	ALHAMBRA LONGDEN 2	595	604	601	529	565	583	351	587	503	433	518	566	533	384	390	236	467
1900010	01900010	ALHAMBRA MOELLER (8)	760	841	865	861	832	836	814	824	801	787	471	802	755	702	676	578	596
1900791	01900791	AMWC 1	134	128	123	135	101	140	140	116	117	116	141	132	113	139	119	129	98.1
1900792	01900792	AMWC 2	93.3	26.7	3.73	44.1	107	4.86	2.45	22.3	85	10.6	2.99	33.2	85.7	12.1	5.95	27.6	104
8000177	8000177	ARCADIA 2 STJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000127	08000127	ARCADIA LIVE OAK 1	1439	1605	1041	1593	1582	1586	591	1108	1496	959	1183	1466	1494	1078	933	1223	1507
1901013	01901013	ARCADIA LONGDEN 1	671	550	175	137	716	455	249	371	487	165	277	585	589	225	179	193	647
1901014	01901014	ARCADIA LONGDEN 2	0	0	0.29	96.8	772	86.1	3.52	197	712	213	121	565	585	211	175	189	558
1902854	01902854	ARCADIA PECK 1	1062	941	639	743	636	730	531	946	954	950	360	220	1053	1025	922	966	982
1902358	01902358	ARCADIA ST JOSEPH 1	151	106	143	154	119	23.8	26.2	37.3	83.2	49.8	5.71	0	0	0	0	0	0
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000119	08000119	ATTALLA	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	3.65	0	0.02	11.6	0	0.01	0	0.02	3.37	5.62	0	0	0	0	0.04	0.01	0
1902115	01902115	AVWC 4 (NEW ALW 8)	422	234	588	257	614	27.1	13.1	393	581	254	357	513	32	40.4	240	48.3	239
1902116	01902116	AVWC 5 (NEW ALW 7)	214	12.4	85.9	234	170	213	133	141	120	141	244	170	72.3	117	140	180	211
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	1223	1137	83.8	510	618	275	28.7	56.7	358	42.5	6.98	558	668	424	272	541	447
8000086	08000086	AZUSA 3 (OLD 8)	1329	1373	1179	1426	1374	1329	1311	1280	1260	1339	1281	1168	1108	1214	1127	87.4	875
1902533	01902533	AZUSA 5 (OLD 1)	0.02	0	0	0	242	296	355	304	286	379	394	336	307	331	362	344	329
1902535	01902535	AZUSA 6 (OLD 3)	419	620	613	836	939	462	579	747	732	475	588	785	818	344	400	701	807
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	36.6	19	11.9	10.6	7.63	1.65	0.43	0.43	2.37	1.05	2.9	5.14	7.7	7.35	4.67	5.87	5.31
8000178	8000178	AZUSA VWC 11 (Azusa 11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1134

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
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Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1902458	A1902458		211	128	519	649	654	363	984	1033	938	884	964	868	199	52.4	525	718	360
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	1214	1136	1062	937	888	584	1163	1161	1165	1117	1131	1120	1188	595	232	646	473
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900012	01900012	ALHAMBRA 10	35	17	0.83	0	0.26	4.43	71.4	64.6	34.5	12.9	55.4	78	36	24.7	66.8	64.6	39.6
1903014	01903014	ALHAMBRA 11	205	198	192	193	193	201	205	200	204	201	231	223	212	173	227	216	226
1900013	01900013	ALHAMBRA 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900014	01900014	ALHAMBRA 13	536	572	536	528	471	514	530	452	533	534	540	561	268	0	375	469	77
1900015	01900015	ALHAMBRA 14	384	379	375	363	84.3	106	337	392	399	324	379	393	395	386	387	380	396
1900016	01900016	ALHAMBRA 15	318	399	448	447	405	135	365	447	188	71.3	249	484	401	405	458	454	458
1903097	01903097	ALHAMBRA 7	310	335	362	350	379	324	319	347	341	292	264	283	281	199	268	240	238
1900011	01900011	ALHAMBRA 9	0	0	2.24	18.2	0	0	0	29.6	153	126	123	180	168	161	167	147	140
1902791	01902791	ALHAMBRA BALDWIN 2	86.2	86.9	84.8	79.4	78.1	79.6	83.8	80.7	83.4	82.5	47.7	0	0	0	0	1.34	0
1900018	01900018	ALHAMBRA GARFIELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	0	105	344	332	304	165	313	342	282	157	250	354	344	344	352	339	333
1900017	01900017	ALHAMBRA LONGDEN 2	378	0	339	579	564	442	541	558	519	435	401	586	574	573	202	561	567
1900010	01900010	ALHAMBRA MOELLER (8)	432	514	27.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900791	01900791	AMWC 1	128	124	107	85.5	126	116	161	188	133	79.5	131	163	115	65.7	111	123	88.3
1900792	01900792	AMWC 2	11.3	1.92	63.8	94.9	3.51	0.1	0.72	3.63	2.3	1.19	0.26	1.01	0.45	32.4	0.41	0.09	0.08
8000177	8000177	ARCADIA 2 STJ	0	0	0	467	46.9	0	94.4	124	30.4	10.2	35.2	372	108	50.6	69.2	512	217
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902077	01902077	ARCADIA CAMINO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000127	08000127	ARCADIA LIVE OAK 1	1013	326	810	1595	746	856	928	1348	671	467	823	1234	1108	862	1218	1401	1188
1901013	01901013	ARCADIA LONGDEN 1	263	250	670	631	118	11.4	314	409	130	67.1	168	612	347	47	432	811	542
1901014	01901014	ARCADIA LONGDEN 2	259	239	573	541	95.9	11.5	309	394	123	66.1	151	585	326	142	374	597	416
1902854	01902854	ARCADIA PECK 1	1063	1007	961	922	862	114	1018	1399	1076	608	838	1308	947	910	1234	1268	453
1902358	01902358	ARCADIA ST JOSEPH 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	15.1	8.86	25.2	26.8	16.6	24	16.1	26.6	17.2	18.7	19.7	25.9	15.3	17.1	17.2	25.4	19.3
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	0	1.13	0	15.3	2.17	4.06	2.2	3.68	1.4	1.42	9.06	34.6	1.96	1.13	14.7	50.9	7.41
1902115	01902115	AVWC 4 (NEW ALW 8)	501	293	211	316	58.3	2.16	38.8	31.8	1.85	1.12	0.74	203	0.06	116	504	366	179
1902116	01902116	AVWC 5 (NEW ALW 7)	222	269	164	174	107	15.4	182	289	119	96	25.2	253	12.9	31.8	160	196	19.4
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	958	1156	1260	1128	494	524	514	826	355	249	498	593	1243	1202	1197	1006	751
8000086	08000086	AZUSA 3 (OLD 8)	1048	865	1069	936	776	759	906	1132	972	1041	875	1046	106	817	954	818	523
1902533	01902533	AZUSA 5 (OLD 1)	387	361	318	241	326	421	431	421	383	6.57	499	448	454	412	253	210	185
1902535	01902535	AZUSA 6 (OLD 3)	188	50.3	469	507	88.4	236	92.8	385	73.5	114	149	806	720	371	540	387	83.7
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	4.39	2.39	5.12	1.91	1.67	0.45	2.28	5.01	1.45	0.03	0.84	2.83	3.88	2.52	1.37	14.1	10.8
8000178	8000178	AZUSA VWC 11 (Azusa 11)	447	632	799	668	809	676	459	884	743	766	885	864	697	508	537	481	261

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1902458	A1902458		103	771	975	904	509	1023	1141	641	130	123	918	661	599	754	686	292	140
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	940	973	1000	1107	1030	985	1005	1059	944	836	519	168	125	272	509	415	568
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900012	01900012	ALHAMBRA 10	24	57.6	69.8	30.4	14.7	51.5	66.8	12	6.02	0.52	13.7	0.44	0	0.03	0.03	0	0
1903014	01903014	ALHAMBRA 11	217	215	218	215	219	216	204	197	187	177	179	132	163	95.4	126	129	75.4
1900013	01900013	ALHAMBRA 12	0	0	0	0	0	2.56	173	61.8	21.3	20.2	0	0.47	0.56	0	0	57.5	132
1900014	01900014	ALHAMBRA 13	0	0.61	0	0	0	0	44	88.5	0	0	0	0	0.06	0	0	0	0
1900015	01900015	ALHAMBRA 14	389	390	389	391	323	366	347	109	0	0	0	244	405	413	387	210	390
1900016	01900016	ALHAMBRA 15	446	463	466	463	457	429	133	0	0	190	441	461	269	281	211	0	0
1903097	01903097	ALHAMBRA 7	215	242	234	221	204	208	227	278	257	253	242	202	247	205	254	227	165
1900011	01900011	ALHAMBRA 9	134	145	161	159	147	155	143	46.7	0	0	0	0	0	0	3.64	0.44	0.11
1902791	01902791	ALHAMBRA BALDWIN 2	0	43.3	131	2.96	0	0	0	0	0	0	0	0	0	0	0	0	0
1900018	01900018	ALHAMBRA GARFIELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	289	323	313	311	300	302	256	275	245	233	268	99.8	0	0	84.3	256	213
1900017	01900017	ALHAMBRA LONGDEN 2	490	560	552	545	521	545	533	508	439	455	489	304	384	443	514	414	269
1900010	01900010	ALHAMBRA MOELLER (8)	0	0	0	0	0	11.7	597	650	785	714	800	671	342	571	834	433	453
1900791	01900791	AMWC 1	81	104	112	87.7	78.6	90	102	81.3	69.1	83.8	105	82.8	77.6	92.1	117	92.4	90.3
1900792	01900792	AMWC 2	0.06	0.12	0.07	0.2	0.05	1.38	1.09	0.05	0.02	0.02	0.05	0.03	0.09	0.07	0.01	0.1	0.02
8000177	8000177	ARCADIA 2 STJ	14.2	797	615	42.9	122	262	794	300	0	0	41.3	0	0	0.33	0	4.91	0
8000213	8000213	Arcadia 3CAM	0	0	0	0	0	0	0	0	0	0	0	0	16.7	245	887	647	13
8000214	8000214	Arcadia 3LONG	0	0	0	0	0	0	0	0	0	0	0	0	0	356	710	439	640
1902077	01902077	ARCADIA CAMINO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000127	08000127	ARCADIA LIVE OAK 1	637	979	1284	909	748	1554	1564	1141	973	1150	1477	780	669	1005	945	358	272
1901013	01901013	ARCADIA LONGDEN 1	151	460	520	0.52	7.07	252	386	285	100	391	630	59.9	19.8	60	172	58.2	51.9
1901014	01901014	ARCADIA LONGDEN 2	49	0	0	0	0	0	0	0	68.8	231	360	18.6	5.98	6.07	68.2	28.5	23.1
1902854	01902854	ARCADIA PECK 1	980	1169	1237	932	984	1177	1219	948	815	1110	1233	911	799	1147	1238	989	1111
1902358	01902358	ARCADIA ST JOSEPH 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	17.7	23.3	16.8	14.8	13.7	21.2	26.1	15.7	18.2	17.3	21.9	12.7	15	16.4	24.3	11.9	14.7
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	3.49	3.05	1.13	2.37	0.55	2.2	1.76	0.08	0.53	0.39	1.31	1.07	0.54	0.49	0.84	0.9	0.25
1902115	01902115	AVWC 4 (NEW ALW 8)	18	1.19	21.8	1.11	1.97	26.7	7.55	0	0	0	15.9	0	0.06	37.4	1.21	43.9	120
1902116	01902116	AVWC 5 (NEW ALW 7)	10.1	61.4	12.5	29.5	2.21	22.4	64.2	170	143	290	35.3	0	0	39	0.17	35.7	182
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	836	697	658	291	479	296	435	482	797	1056	450	31.2	0.18	241	584	584	691
8000086	08000086	AZUSA 3 (OLD 8)	451	816	842	663	589	896	946	549	323	562	1155	800	968	954	451	0.21	35
1902533	01902533	AZUSA 5 (OLD 1)	303	338	296	408	386	372	352	404	322	0.01	44.1	11.7	0.02	305	472	377	405
1902535	01902535	AZUSA 6 (OLD 3)	16.7	81.6	105	24.7	14.8	120	246	15.8	2.39	20.3	97.2	0	1.35	35.1	208	8.7	27.7
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	9.32	9	12	4.77	2.3	7.08	12.4	11.5	0.65	0.55	0.68	0.03	0.02	0.21	0.05	0.02	0
8000178	8000178	AZUSA VWC 11 (Azusa 11)	285	357	642	477	21.6	248	539	267	304	1.33	448	138	761	835	628	73.5	241

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1902458	A1902458		96.1	406	664	91.2	835	535	448	567	651
Z1000051	Z1000051		0	0	0	0	0	0	0	0	0
1902457	01902457	AAWC 2 (OLD 1 NORTH)	463	618	334	671	387	468	348	305	144
1902458	01902458	AAWC 4 (OLD 2 SOUTH)	0	0	0	0	0	0	0	0	0
1900012	01900012	ALHAMBRA 10	0	0	0	0	0	0	0	0	0
1903014	01903014	ALHAMBRA 11	78.4	1.22	81.6	138	150	225	120	120	95.7
1900013	01900013	ALHAMBRA 12	73.4	171	3.29	6.69	18.5	68.3	4.89	3.33	3.12
1900014	01900014	ALHAMBRA 13	0	0	0	0.12	0	0	0	0	0
1900015	01900015	ALHAMBRA 14	276	311	289	277	283	266	270	369	305
1900016	01900016	ALHAMBRA 15	0	0	429	118	399	418	453	405	436
1903097	01903097	ALHAMBRA 7	250	285	220	207	200	308	197	168	171
1900011	01900011	ALHAMBRA 9	0	0	0.06	0	0.36	0	0.23	0.06	0.13
1902791	01902791	ALHAMBRA BALDWIN 2	0	0	0	0	0	0	0	0	0
1900018	01900018	ALHAMBRA GARFIELD	0	0	0	0	0	0	0	0	0
1902789	01902789	ALHAMBRA LONGDEN 1	236	340	110	354	295	396	398	360	350
1900017	01900017	ALHAMBRA LONGDEN 2	305	480	143	0.33	275	0	0	0	444
1900010	01900010	ALHAMBRA MOELLER (8)	823	756	597	689	585	826	555	345	240
1900791	01900791	AMWC 1	105	117	91.2	86.9	104	118	95.4	85.7	95.9
1900792	01900792	AMWC 2	0.44	1.11	0.08	0.04	0.06	0.08	0.11	0.18	0.1
8000177	8000177	ARCADIA 2 STJ	0	1.01	0	0.04	0.13	3.27	0	0	73.1
8000213	8000213	Arcadia 3CAM	3.03	617	1004	795	893	712	628	572	675
8000214	8000214	Arcadia 3LONG	718	758	428	33.9	557	744	639	483	719
1902077	01902077	ARCADIA CAMINO 1	0	0	0	0	0	0	0	0	0
1902078	01902078	ARCADIA CAMINO 2	0	0	0	0	0	0	0	0	0
8000127	08000127	ARCADIA LIVE OAK 1	686	1291	397	499	527	1398	774	403	686
1901013	01901013	ARCADIA LONGDEN 1	320	460	25.8	35.2	328	396	87	88.1	518
1901014	01901014	ARCADIA LONGDEN 2	159	219	11.5	15.8	146	187	59.1	6.4	284
1902854	01902854	ARCADIA PECK 1	1180	1257	942	961	1077	1169	803	844	1152
1902358	01902358	ARCADIA ST JOSEPH 1	0	0	0	0	0	0	0	0	0
1902106	01902106	ARMWC 1	0	0	0	0	0	0	0	0	0
1902689	01902689	ARMWC 2	0	0	0	0	0	0	0	0	0
8000182	8000182	ARMWC 3	13	22.8	12.2	14.4	18.6	21.6	15.9	15.1	18.4
8000119	08000119	ATTALLA	0	0	0	0	0	0	0	0	0
8000103	08000103	AVWC 10 (OLD ALW 8)	1.1	0.84	2.29	3.61	3.42	11.3	3.88	6.21	4.22
1902115	01902115	AVWC 4 (NEW ALW 8)	4.16	2.94	0	0.72	26.4	386	153	0	28.8
1902116	01902116	AVWC 5 (NEW ALW 7)	124	409	171	173	383	168	0.36	75.4	181
1902117	01902117	AVWC 6 (NEW ALW 9)	0	0	0	0	0	0	0	0	0
1902425	01902425	AVWC 7	0	0	0	0	0	0	0	0	0
8000072	08000072	AZUSA 1 (OLD 7)	937	1040	133	524	255	724	402	110	288
8000086	08000086	AZUSA 3 (OLD 8)	135	654	687	257	918	1039	1039	980	939
1902533	01902533	AZUSA 5 (OLD 1)	386	341	370	416	307	257	258	242	205
1902535	01902535	AZUSA 6 (OLD 3)	5.53	53	23	2.03	326	546	167	251	301
1902536	01902536	AZUSA GEN 1 (OLD 4)	0	0	0	0	0	0	0	0	0
1902537	01902537	AZUSA GEN 2 (OLD 5)	0	0	0	0	0	0	0	0	0
1902538	01902538	AZUSA GEN 3 (OLD 6)	0	0	0	0	0	0	0	0	0
1903119	01903119	AZUSA VUL	0.18	0.03	0.14	0.1	0.28	0.2	12	24.6	28.8
8000178	8000178	AZUSA VWC 11 (Azusa 11)	178	208	212	6.08	831	681	559	612	640

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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
8000179	8000179	AZUSA VWC 12 (Azusa 12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902589	01902589	B&B REDI MIX 3	8.96	4.91	3.57	7.6	9.06	6.53	6.11	11.3	9.23	5.07	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	32.5	15.2	12.4	25	35.8	14.3	21	33.2	37.7	17.5	14.2	30.4	10.9	14.7	11.7	31.2	32.3
1900415	01900415	BANKS	6.34	1.38	0.17	3.15	5.97	0.98	3.04	6.1	5.42	1.95	0	4.44	0.08	0.03	0.03	0.06	12.1
1901411	01901411	CAMWC 1 SOUTH	46.3	29.2	24.1	34.5	45.8	22.9	28.7	37.4	44.8	27.3	27.6	37.2	43.2	25.4	23.2	38	43.7
8000175	8000175	CAMWC 2 HALL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900497	11900497	CAWC BACON	44.1	7.77	0	0.68	16.6	0	0.08	0	0	0	0	97.8	132	95.3	86.5	41.7	131
1901441	01901441	CAWC BLUE RIBBON 1	50.6	0.1	31.3	46	55.4	61	64.9	65.8	65.8	65.6	59.8	0	0	0.02	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	65.1	0.15	8.13	42.3	33.3	3.54	0	0	0	0.01	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	519	407	197	181	456	34.9	53.2	429	674	314	125	509	651	280	164	438	598
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	51.3	0	0	2.36	0	0	2.08	0	13.6	0	2.26	32.2	30.7	0	0	0	154
1903059	01903059	CAWC DEL MAR	342	298	75.3	51.7	257	149	366	403	440	333	273	413	333	362	384	415	413
8000139	08000139	CAWC ENCANTO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900358	01900358	CAWC FISH CANYON	302	360	390	350	326	347	334	316	300	271	294	305	282	319	327	343	279
1900926	01900926	CAWC GRAND	92.3	46.8	11.3	5.65	58.2	3.93	1.8	59.5	126	0	217	419	450	402	377	360	408
1900918	01900918	CAWC GUESS	101	16.9	0.82	33.7	80.2	1.87	0.15	19.2	87.6	14.7	34.2	19.3	69.7	14.1	45.4	11.4	2.93
1902424	01902424	CAWC HOWLAND	114	16.3	5.75	29.4	105	13.8	22.5	80.6	161	74.2	9.53	114	149	88.6	101	79.3	106
1900923	01900923	CAWC IVAR 1	66.8	24	104	197	268	233	320	317	253	175	215	267	327	322	249	201	251
1902867	01902867	CAWC IVAR 2 - ABANDONED	6.14	2.18	3.17	0.05	6.7	6.48	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900935	01900935	CAWC LONGDEN	651	474	523	326	709	595	387	705	776	762	754	740	699	699	663	747	714
1900357	01900357	CAWC LOS LOMAS	265	276	245	266	265	239	274	259	128	117	106	53.6	152	31	0	229	374
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0.16	0.02	0.01	0	0	0	0.04	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0.28	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	433	436	250	314	387	183	210	385	450	209	166	383	417	268	314	643	635
1900920	01900920	CAWC MISSION VIEW 2	437	346	333	419	447	332	299	335	427	432	430	414	356	125	16.8	293	329
1900356	01900356	CAWC MT. AVE	0	0	0.96	74.2	357	86.5	158	443	569	107	0	1.02	0	0	0	185	6.94
1900921	01900921	CAWC RICHARDSON 1	154	151	157	60.3	143	172	167	173	171	44.2	0.03	1.8	11.6	13.8	1.26	1.47	4.6
1900934	01900934	CAWC ROANOKE	577	286	59.8	262	410	132	216	414	165	266	11.5	58.4	524	258	0	0	14.9
1900927	01900927	CAWC ROSEMEAD	251	186	171	248	221	167	194	279	294	276	60.5	65.3	117	60.6	77	42.1	73.6
1900354	01900354	CAWC SANTA FE	388	50.4	6.85	24.4	34.8	0	19.3	57.4	214	24.9	11.5	236	327	35.8	12.9	81.9	133
1902907	01902907	CAWC WILEY	334	3.96	33.9	420	504	333	393	375	325	434	461	484	450	489	487	461	424
1902920	01902920	CC E DURBIN	271	230	201	298	318	289	278	323	297	190	229	250	250	298	309	388	363
1903088	01903088	CC REL 1	281	267	229	336	328	313	339	302	302	243	301	309	316	298	304	403	358
8000063	08000063	CC W DURBIN	34.8	26.2	18.2	8.7	29.2	25.6	31.4	43.2	33.2	25	31.8	38	35.6	24	19.8	24.8	29
1902531	01902531	CCC ARTESIAN 2	0.34	0.02	0.6	0	0	1.14	0	0	0	0	0.93	0.21	0	0.74	0	0	0
1902529	01902529	CCC CLUB - ABANDONED	1.71	0.8	0.18	4.36	2.63	2.24	9.32	2.24	1.78	3.1	0.59	1.04	0.57	0	0.37	0.37	0.11
1903084	01903084	CCC SYCAMORE	4.95	0	1.78	0	0	0.01	0	0	0	0	0	0.14	0.01	0.12	0	0	0.86
8000174	08000174	CDWC 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	247	252	177	92.4	499	388	316	232	157	204	165	232	599	200	258	531	281
1903057	01903057	CDWC 3	1366	81.1	252	1339	1254	604	831	1058	1407	1741	1555	1760	1759	1300	1486	1611	1432
1901183	01901183	CDWC 5	1122	958	935	839	1189	1307	1374	878	567	411	980	953	1051	912	972	827	1046
8000100	08000100	CDWC 5A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902967	01902967	CDWC 6	708	852	594	453	256	444	1030	1378	1340	1142	626	1082	843	898	672	674	962
1903081	01903081	CDWC 8	35.9	34.2	6.94	33.2	24.1	127	41.4	58.5	656	74.1	105	445	608	193	139	380	787
1900885	01900885	CIC BALDWIN 1	0	0	0	0	0	0	0	0	0.54	0	0	0.14	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
8000179	8000179	AZUSA VWC 12 (Azusa 12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	14.1	13.3	27.1	29.4	13.2	15.6	24.5	31.3	16.4	13.2	28.9	31.7	18.1	14.5	23.7	28.5	18.9
1900415	01900415	BANKS	0.59	1.19	4.51	5.58	1.65	2.07	7.84	6.33	1.7	1.3	4.21	7.75	4.24	0.6	3.01	6.67	2.37
1901411	01901411	CAMWC 1 SOUTH	27.6	23.1	69.9	46.1	27.2	27.4	35.2	40.6	30.1	23.3	44.2	42.2	38.4	28.3	30.4	43.9	30.4
8000175	8000175	CAMWC 2 HALL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900497	11900497	CAWC BACON	71.1	49.5	108	131	50	70.5	94.3	75.7	109	74.3	108	121	115	56.8	127	119	90.2
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	229	18.9	355	550	412	373	617	723	647	309	729	667	465	447	687	699	561
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	0	72.2	57.3	94.5	17.1	9.49	69.9	235	145	48.1	314	217	6.08	38	209	415	33.8
1903059	01903059	CAWC DEL MAR	288	248	407	106	0	220	366	372	361	299	380	354	377	375	332	373	355
8000139	08000139	CAWC ENCANTO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900358	01900358	CAWC FISH CANYON	265	269	247	117	264	238	245	234	357	267	267	219	190	223	263	247	220
1900926	01900926	CAWC GRAND	101	185	413	421	223	178	221	334	197	120	262	286	161	176	240	324	188
1900918	01900918	CAWC GUESS	1.81	29.5	0.14	23.3	1.7	0.24	9.31	113	36.6	10.4	19.7	19.5	28.5	4.94	1.81	2.47	24.1
1902424	01902424	CAWC HOWLAND	3.85	0	45	206	28.2	2.57	0	0	0.32	0	0	1.71	0.36	0.17	0	0	0.7
1900923	01900923	CAWC IVAR 1	183	95.4	115	156	296	10.9	288	0	0	0	102	171	73.7	8.48	54.4	137	83.2
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900935	01900935	CAWC LONGDEN	619	200	0	708	815	556	354	404	0	0	0	144	0.51	0.12	0	0	0.43
1900357	01900357	CAWC LOS LOMAS	302	275	386	307	7.99	10.2	28.3	6.26	13.1	33.6	48.8	292	269	41.8	11.1	124	0.8
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	614	354	492	442	268	471	460	636	616	392	585	613	551	452	554	656	540
1900920	01900920	CAWC MISSION VIEW 2	336	443	506	548	470	571	563	584	456	623	618	630	595	625	630	644	616
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	1.58	0.36	36.2	0	0.09	0.36	3.02	3.69	0.39	0	0	0.32	0.09	0	0	0.32
1900934	01900934	CAWC ROANOKE	358	490	47.8	486	184	11.1	342	551	555	329	448	476	494	483	470	482	464
1900927	01900927	CAWC ROSEMEAD	85.8	59.8	110	0	0	27.3	64	168	56	5.49	51.4	89.2	46.4	5.42	11.6	85.3	26.8
1900354	01900354	CAWC SANTA FE	38.1	163	302	450	317	73.1	228	415	175	327	326	349	117	76.6	302	464	211
1902907	01902907	CAWC WILEY	326	290	312	366	141	423	433	346	11.1	0	0.9	304	394	327	0	15.3	532
1902920	01902920	CC E DURBIN	398	360	397	334	332	436	402	309	138	244	422	433	431	467	492	370	361
1903088	01903088	CC REL 1	391	374	420	384	326	375	544	364	340	349	371	386	381	384	381	258	297
8000063	08000063	CC W DURBIN	24.4	16	30.8	40.4	24.8	15	19.8	32.8	34.8	28.2	34.8	33	4.86	16.2	11	19.6	54.8
1902531	01902531	CCC ARTESIAN 2	0	0	0.04	0	0	0	0.05	0	0	0.02	0.52	0	0	0	0	0	0
1902529	01902529	CCC CLUB - ABANDONED	0.04	0	0.35	0.03	2.02	1.09	1.09	0.12	0.53	0.4	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0.04	0	0	0	0	0	0	3.72	0	0.04	0.05	0	0	0	0	0	0
8000174	08000174	CDWC 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	458	673	861	139	85.8	145	117	123	164	17.6	176	266	96	396	222	250	394
1903057	01903057	CDWC 3	1137	1058	1556	1141	666	946	1298	1481	879	21.9	1125	1671	1442	431	1651	1499	563
1901183	01901183	CDWC 5	430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	0	0	0	791	519	718	822	1223	1655	1584	1638	1614	1557	840	1444	1380	1328
1902967	01902967	CDWC 6	962	256	694	1845	1059	899	1520	1385	422	871	247	309	248	307	417	392	696
1903081	01903081	CDWC 8	460	533	849	234	94	158	95.5	57.9	46.9	34.8	48.9	25.7	7.52	237	238	283	157
1900885	01900885	CIC BALDWIN 1	0	0	0	0	0	1.53	0	0	0	0	0	0	0	0.04	0.18	0	0.06

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
8000179	8000179	AZUSA VWC 12 (Azusa 12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	13.9	22.1	24.9	17.2	10.4	25.2	30.8	17.1	12.1	18.3	0	0	0	0	0	0	0
1900415	01900415	BANKS	1.61	3.63	6.03	1.71	1.02	3.6	3	0.65	0.11	4.99	5.35	1.94	0.8	2.45	4.31	2.5	0.66
1901411	01901411	CAMWC 1 SOUTH	22.1	26.9	34.8	20	18.4	29.4	36.5	25	16.8	30.8	30.4	22.3	34.7	17.2	12.9	0	0
8000175	8000175	CAMWC 2 HALL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900497	11900497	CAWC BACON	69.9	91.2	107	95.4	68.6	93.8	96.1	60	33.2	96.1	43.8	55.3	50.8	51.8	75.2	51.8	36
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	211	325	521	364	133	721	700	384	112	618	364	154	39.5	175	415	130	6.82
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	10.1	22.1	87.6	26.6	0.53	47.4	25.5	3.04	1.3	11.4	5.64	2.45	0.73	12.6	11.6	0.61	0.23
1903059	01903059	CAWC DEL MAR	345	334	315	358	316	356	357	321	350	352	364	357	360	366	360	358	357
8000139	08000139	CAWC ENCANTO	0	0	0	0	0	0	0	0	6.14	2.3	481	367	317	520	729	495	254
1900358	01900358	CAWC FISH CANYON	201	212	214	203	198	240	196	189	196	198	181	124	158	161	148	140	199
1900926	01900926	CAWC GRAND	194	221	326	198	63	246	333	141	87.4	258	306	180	63.2	127	344	141	32.6
1900918	01900918	CAWC GUESS	10.2	0.5	0.62	0.58	0.18	1.73	15.6	1.81	0.56	2.5	0.78	0.65	1.01	4.78	9.13	1.43	0.1
1902424	01902424	CAWC HOWLAND	0	0.41	0.16	0.04	0	0.16	0.04	0.05	0.09	0.73	0.33	0.3	0.24	0.25	0.13	0.7	1.42
1900923	01900923	CAWC IVAR 1	26.3	0.96	7.38	4.31	0.39	7.61	57.6	19.8	1.77	17.2	59.8	6.96	0	26.9	117	26.9	0.21
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	0	0	0	0	0	0	0	0	5.87	1.91	209	120	0.67	12.7	43.2	0.7	1.14
1900935	01900935	CAWC LONGDEN	4.79	1.56	1.62	0.69	1.13	1	0.83	0.29	3.11	2.05	0.51	0.64	0.21	149	0.5	0.2	0.36
1900357	01900357	CAWC LOS LOMAS	0	23.2	25.3	5.05	0.33	1.09	0.56	0.37	0.1	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	498	517	570	506	405	527	612	511	432	581	625	498	359	324	656	560	474
1900920	01900920	CAWC MISSION VIEW 2	526	552	550	542	551	561	568	566	537	580	587	582	582	599	584	565	592
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	0.09	0.06	0	0	0.02	0.03	0.02	0.02	0.12	0.05	0.02	0	0.03	0.09	0.01	0
1900934	01900934	CAWC ROANOKE	363	331	452	417	305	346	426	413	175	353	444	376	296	364	433	159	51.3
1900927	01900927	CAWC ROSEMEAD	2.9	1.53	0.44	1.95	0.8	11.3	46.5	2.46	1.6	27	48.9	17.6	1.46	20.6	52.5	34	5.82
1900354	01900354	CAWC SANTA FE	32.4	104	129	67.5	11.6	376	294	112	9.19	144	63.8	18.4	2.01	15.8	133	15.6	27.2
1902907	01902907	CAWC WILEY	547	540	536	556	511	0.4	620	622	578	601	609	590	552	591	588	577	456
1902920	01902920	CC E DURBIN	217	882	246	345	384	359	311	204	210	330	241	190	187	235	120	79.3	66.8
1903088	01903088	CC REL 1	39.6	63.8	96.6	79.2	81.5	113	105	86.6	75.9	125	138	127	153	139	131	106	88.2
8000063	08000063	CC W DURBIN	60.8	86.2	86.2	54.2	64.8	106	94.8	53.6	32.6	54.8	55	37	49	37.4	47	29.2	14.8
1902531	01902531	CCC ARTESIAN 2	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0.02	0
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0	0.01	1.28	0	0	0.01	0	0	0.54	0	0	0	0	0	0	0	0
8000174	08000174	CDWC 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	20.3	267	437	272	8.77	78.5	243	89.7	657	1148	1051	273	0.81	251	734	269	365
1903057	01903057	CDWC 3	440	1703	1738	1362	744	503	1284	434	137	1389	821	1651	1597	1909	1798	1841	1889
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	1348	1434	1448	1510	1521	1672	1703	1613	1039	798	997	1045	1058	1428	1832	1269	182
1902967	01902967	CDWC 6	495	604	687	158	131	924	778	1145	18.4	168	609	652	195	892	564	517	370
1903081	01903081	CDWC 8	98.6	38.4	288	89.5	10.2	75.8	850	766	949	1264	1235	101	43.5	127	373	159	253
1900885	01900885	CIC BALDWIN 1	0	0	0	0	0	0	0	0	0	0	0.15	0	0	0	0	0	27.3

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
8000179	8000179	AZUSA VWC 12 (Azusa 12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900415	01900415	BANKS	4.8	5	2	0	5	7	2	3	4	10.7	2.19	0.93	5	10.1	6.26	1.77	5.47
1901411	01901411	CAMWC 1 SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000175	8000175	CAMWC 2 HALL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900497	11900497	CAWC BACON	43.5	103	99	115	78	99	63	55	82	110	76.7	115	120	125	110	132	132
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	0	245	12	1	22	0	66	36	155	226	97.1	53.7	153	413	162	131	234
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	23.1	86	32	2	59	229	68	8	95	104	5.61	1.2	89.9	118	13	4.85	7.17
1903059	01903059	CAWC DEL MAR	361	359	291	284	365	355	350	316	346	347	340	158	195	345	336	326	316
8000139	08000139	CAWC ENCANTO	509	154	201	287	795	49	572	348	692	267	256	528	701	167	470	350	374
1900358	01900358	CAWC FISH CANYON	190	183	139	100	99	254	231	170	188	213	229	266	263	214	187	171	188
1900926	01900926	CAWC GRAND	269	278	112	47	226	270	234	172	257	286	144	236	229	303	132	95.8	177
1900918	01900918	CAWC GUESS	2.09	4	0	0	12	46	16	4	18	49.6	3.47	10.6	28	54.7	5.1	3.35	30.8
1902424	01902424	CAWC HOWLAND	186	218	137	49	186	307	296	103	163	279	274	269	257	237	117	0.25	51
1900923	01900923	CAWC IVAR 1	41.3	35	1	0	0	0	0	0	0	0.37	0	0	0	0	0.23	0	0
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	56.8	522	274	1	54	621	64	9	9	410	226	12.7	25	495	32.7	2.56	97.4
1900935	01900935	CAWC LONGDEN	0.68	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1900357	01900357	CAWC LOS LOMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	267	654	545	488	582	579	617	561	651	637	370	516	602	604	532	523	563
1900920	01900920	CAWC MISSION VIEW 2	611	597	597	622	600	594	356	241	583	582	586	109	225	596	578	592	597
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0.09	0	0	0	0	0	0	0	0	0	0	0	0.09	0	0	0	0
1900934	01900934	CAWC ROANOKE	291	526	483	454	421	480	426	428	470	464	402	446	286	438	425	453	456
1900927	01900927	CAWC ROSEMEAD	20	18	2	12	13	47	24	8	29	54.9	15.4	16.2	32.2	27.3	12.1	1.4	5.77
1900354	01900354	CAWC SANTA FE	81.3	270	179	58	321	459	179	41	181	381	120	55.9	20.8	130	35.4	26.2	68.6
1902907	01902907	CAWC WILEY	587	601	565	580	408	486	189	574	586	586	500	0.31	0	606	556	539	524
1902920	01902920	CC E DURBIN	64.9	26	171	205	260	194	232	248	305	268	314	125	207	307	315	249	183
1903088	01903088	CC REL 1	103	105	168	163	159	215	93	172	177	161	168	287	397	463	419	293	284
8000063	08000063	CC W DURBIN	34.6	44	46	14	26	28	2	4	6	3.9	3.4	1.82	3.04	5.44	4.86	3.36	3.34
1902531	01902531	CCC ARTESIAN 2	0	0	0	0	0	0	0	0	0	0	0	0	0.09	0	0	0	0
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000174	08000174	CDWC 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	368	941	1121	807	1142	1065	715	469	154	59.1	173	316	29.6	71.4	1.85	172	629
1903057	01903057	CDWC 3	1987	1971	1880	1850	1883	1803	1871	1862	1987	1931	1125	497	2030	2099	1858	750	1677
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	976	1091	1049	242	1062	1189	344	274	227	1154	924	13.4	852	733	746	176	296
1902967	01902967	CDWC 6	1265	332	193	0	205	17	147	377	1798	1597	1455	956	1715	1755	1588	1645	1599
1903081	01903081	CDWC 8	234	1112	619	768	937	1203	1028	895	1160	346	287	338	193	663	297	67.7	152
1900885	01900885	CIC BALDWIN 1	825	809	65	142	105	560	295	687	568	460	229	238	201	826	210	211	398

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
8000179	8000179	AZUSA VWC 12 (Azusa 12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	696
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900415	01900415	BANKS	11.6	7.03	2.87	7.01	10.5	4.33	0.5	6.01	10	1.46	2.32	7.84	9.18	4.45	3.15	2.91	10.1
1901411	01901411	CAMWC 1 SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000175	8000175	CAMWC 2 HALL 2	0	0	0	0	0	0	2.51	334	558	601	764	607	650	632	501	666	619
1900497	11900497	CAWC BACON	138	135	104	132	134	123	101	97.1	74.9	60.6	28.6	71.2	117	89.7	59.7	9.63	55.8
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	471	216	51.8	177	0	324	97.4	273	445	448	601	606	622	611	542	545	643
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	35.9	60.6	1.8	32.8	255	7.02	1.99	170	65.2	78.1	44.5	252	347	157	112	56.2	143
1903059	01903059	CAWC DEL MAR	330	317	299	313	323	315	316	305	311	318	230	261	306	302	296	313	303
8000139	08000139	CAWC ENCANTO	481	421	322	673	696	433	224	47.4	490	0	0	0	0	6.92	1.16	34	436
1900358	01900358	CAWC FISH CANYON	185	195	224	202	0	401	135	224	236	274	51.8	0.12	0.01	92.2	175	177	180
1900926	01900926	CAWC GRAND	267	178	98.6	301	327	149	149	306	129	216	206	353	353	244	93.3	206	330
1900918	01900918	CAWC GUESS	57.5	19.2	4.53	126	151	13.4	69.8	151	172	77.2	0	0	0	0	0	0	0
1902424	01902424	CAWC HOWLAND	274	102	3.59	226	261	86.1	33.4	152	229	113	11.2	200	216	89.8	125	104	174
1900923	01900923	CAWC IVAR 1	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	258	107	1.27	4.83	53.4	3.85	57.9	280	105	11.2	14.7	130	353	74.4	38.1	8.95	24.5
1900935	01900935	CAWC LONGDEN	0	0	0	145	71.6	13.6	24.1	227	331	43.2	1.65	0.15	158	102	11.2	67	115
1900357	01900357	CAWC LOS LOMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	606	607	582	622	643	556	444	568	557	444	434	527	533	473	408	455	531
1900920	01900920	CAWC MISSION VIEW 2	441	592	600	587	591	599	503	526	547	480	503	524	531	496	475	494	533
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900934	01900934	CAWC ROANOKE	381	141	274	448	453	423	283	0.11	0	0	0	0	0	0	0	0	0
1900927	01900927	CAWC ROSEMEAD	48.3	21.8	1.6	37.2	80.8	9.04	34.9	63.6	212	9.3	58.8	7.87	84.1	34.6	75.8	55.4	47.2
1900354	01900354	CAWC SANTA FE	111	38.6	9.45	88	298	30.2	5.09	128	334	178	202	363	397	275	254	222	377
1902907	01902907	CAWC WILEY	559	555	525	561	569	545	299	757	531	446	386	551	546	298	72.4	572	575
1902920	01902920	CC E DURBIN	123	181	175	234	185	191	185	238	289	246	155	1.84	457	653	253	116	394
1903088	01903088	CC REL 1	335	325	313	388	453	304	508	522	511	484	305	343	175	255	255	328	80.8
8000063	08000063	CC W DURBIN	3.82	6.9	2.82	2.24	2.54	2.64	11.6	38.8	42.6	36	36.2	71.8	59.2	54.2	9.46	44	30.8
1902531	01902531	CCC ARTESIAN 2	0	0	0	0	0	0	0	0	0.17	1.46	0.91	0.38	1.07	0.77	0.15	0.36	0.68
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0.15	0.01	0	0	0	0	0	0.01	0.23	0.26	0.56	0.26	0.66	0.25	0.31	0.24	0.05
8000174	08000174	CDWC 14	0	0	0	0	1674	711	1091	179	0	1565	1810	1989	1848	1766	1806	1731	1763
1901181	01901181	CDWC 2	936	788	435	908	1254	616	274	109	0	112	48.4	772	850	369	185	484	286
1903057	01903057	CDWC 3	2029	1563	978	0	790	726	396	1549	1723	714	291	25.9	105	400	57.5	348	1084
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	654	698	654	938	988	219	0	1273	1654	1406	767	633	1031	623	530	868	1417
1902967	01902967	CDWC 6	1675	1544	1719	1593	779	1151	1203	1368	1530	362	1570	1663	1576	1187	1377	1478	1440
1903081	01903081	CDWC 8	639	38.5	161	314	696	536	347	671	1000	282	359	929	928	629	422	738	483
1900885	01900885	CIC BALDWIN 1	781	641	410	532	557	375	191	394	554	437	488	424	529	522	450	484	503

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
8000179	8000179	AZUSA VWC 12 (Azusa 12)	623	231	303	543	550	506	337	442	521	344	401	589	230	361	444	385	175
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900415	01900415	BANKS	3.72	2.79	6.86	8.31	2.8	0.54	6.24	10.2	1.67	1.55	7.93	5.86	5.37	2.43	8.18	8.72	3.8
1901411	01901411	CAMWC 1 SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000175	8000175	CAMWC 2 HALL 2	579	674	538	551	406	453	470	452	452	348	361	376	277	385	375	315	259
1900497	11900497	CAWC BACON	24.3	8.08	38.8	118	25.2	8.38	9.68	44.6	50.3	14.4	0.82	3.51	6.43	2.49	4.09	73.5	24.3
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	556	531	590	608	334	126	51.4	309	46.2	155	234	393	167	40.3	392	473	225
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903018	01903018	CAWC CR HV	15.2	0	36.5	402	103	0	0	0	0	98.6	0	520	532	126	63.8	375	368
1903059	01903059	CAWC DEL MAR	281	333	304	304	270	284	312	293	302	292	183	0	80.9	248	275	294	303
8000139	08000139	CAWC ENCANTO	171	185	393	269	80	321	698	557	274	325	541	763	298	416	645	244	99.8
1900358	01900358	CAWC FISH CANYON	159	195	139	109	92.1	32.1	0	0	0.16	18.5	2.08	28.5	3.6	16.1	3.21	25.9	2.65
1900926	01900926	CAWC GRAND	202	0	75.3	280	13.4	106	201	373	248	239	333	349	238	226	260	249	81.4
1900918	01900918	CAWC GUESS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902424	01902424	CAWC HOWLAND	154	176	5.84	0	0	0	0	0	0	0	0	50.3	203	0	236	300	279
1900923	01900923	CAWC IVAR 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	5.01	26.7	92.9	12.5	2.25	51.5	298	592	60.9	874	414	174	0	76.2	269	183	111
1900935	01900935	CAWC LONGDEN	8.31	60.5	36.3	88.3	70.3	97.7	70.4	115	126	49.9	111	164	153	209	286	206	248
1900357	01900357	CAWC LOS LOMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	481	471	518	518	421	454	516	491	582	261	500	564	337	518	488	451	384
1900920	01900920	CAWC MISSION VIEW 2	422	568	529	529	449	485	530	482	469	519	136	642	589	571	529	509	536
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900934	01900934	CAWC ROANOKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900927	01900927	CAWC ROSEMEAD	0.35	0	55.8	307	121	95.5	222	317	184	159	274	309	211	224	317	251	64.9
1900354	01900354	CAWC SANTA FE	129	0	14.3	414	117	72.2	0	501	303	0	0	462	508	537	509	507	932
1902907	01902907	CAWC WILEY	525	598	504	617	508	610	584	492	411	416	407	458	417	436	428	502	255
1902920	01902920	CC E DURBIN	558	459	635	553	387	385	558	529	533	596	533	532	509	446	124	106	83.3
1903088	01903088	CC REL 1	124	97	113	118	84.7	106	152	141	136	119	112	167	149	115	144	158	130
8000063	08000063	CC W DURBIN	14.2	10.2	24.8	56.4	38.4	31.6	71.8	80.8	11.2	0	15.8	27	0	23.6	55.8	74.4	32.8
1902531	01902531	CCC ARTESIAN 2	1.39	1.27	0.98	0.9	0	0	0	7.53	0	0.01	12.2	0.01	0.02	0	0.05	33.2	0
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	2.72	0.49	0.67	0.36	0	12.6	0	0	0	0	0	0	0.05	0	0	0	0
8000174	08000174	CDWC 14	1789	1670	1579	1582	1579	1673	1654	1632	1757	1792	1833	1890	1800	1624	1720	1657	1673
1901181	01901181	CDWC 2	46.9	76	308	321	124	5.52	229	271	117	42.8	223	153	44.9	25.6	92.2	379	275
1903057	01903057	CDWC 3	265	206	795	721	303	41	240	222	101	42.8	96.9	114	41.6	89.5	140	334	242
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	915	885	1377	1276	1063	636	1603	1475	1306	850	1083	1553	1122	1063	1277	1275	1187
1902967	01902967	CDWC 6	1428	1410	1366	1390	1426	1477	1722	1717	1659	1597	1627	1719	1671	1487	1533	1582	1483
1903081	01903081	CDWC 8	97.7	67.2	480	529	237	30	400	445	180	36.2	38.1	130	24.3	90	209	127	320
1900885	01900885	CIC BALDWIN 1	524	443	482	480	297	232	459	639	411	285	594	724	553	454	570	511	262

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
8000179	8000179	AZUSA VWC 12 (Azusa 12)	242	404	303	249	326	304	241	265	38.6	55.6	368	577	259	168	69.6	80	8.92
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900415	01900415	BANKS	1.93	9.28	11.2	4.37	1.79	10.1	11.5	2.51	1.69	7.59	10.6	2.11	1.57	8.86	11.4	4.18	3.07
1901411	01901411	CAMWC 1 SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000175	8000175	CAMWC 2 HALL 2	187	248	366	372	306	318	301	219	182	356	363	398	389	400	397	367	305
1900497	11900497	CAWC BACON	7.12	1.22	4.17	0.73	0.1	0	0	0	0	0	0	11.8	0	76.2	1.7	60	56.9
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	149	533	511	109	0	199	515	350	65.9	284	410	6.85	0	143	203	26.4	0
8000216	8000216	CAWC B-V2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234	405
1903018	01903018	CAWC CR HV	415	0	474	457	279	501	504	277	66.1	328	264	139	258	280	643	119	70.6
1903059	01903059	CAWC DEL MAR	291	255	281	280	240	294	289	300	256	311	274	294	299	299	296	290	180
8000139	08000139	CAWC ENCANTO	242	411	221	90.4	181	271	197	154	236	185	471	331	232	762	330	744	704
1900358	01900358	CAWC FISH CANYON	8.91	19.8	22.6	16.6	0	0	23.1	0.01	0.01	0	0	0	0	0	0	0	0.03
1900926	01900926	CAWC GRAND	180	884	280	227	145	285	304	299	192	320	171	32.1	67.2	233	386	209	133
1900918	01900918	CAWC GUESS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902424	01902424	CAWC HOWLAND	251	96.9	0.03	0.06	7.72	272	263	191	0.18	161	236	122	0.16	163	240	156	154
1900923	01900923	CAWC IVAR 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	1.08	300	344	137	30	217	147	171	1.6	198	148	196	259	138	34.3	31.7	17.7
1900935	01900935	CAWC LONGDEN	6.9	176	162	181	87.3	255	172	193	31.8	224	276	152	61.6	265	292	121	25.6
1900357	01900357	CAWC LOS LOMAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	390	531	510	507	224	425	459	391	438	536	479	462	386	507	491	433	471
1900920	01900920	CAWC MISSION VIEW 2	277	290	493	465	393	501	534	559	123	172	510	367	324	501	518	383	518
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900934	01900934	CAWC ROANOKE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900927	01900927	CAWC ROSEMEAD	262	320	391	197	105	188	170	108	185	318	306	69.4	45.9	84.3	159	41.4	16.8
1900354	01900354	CAWC SANTA FE	435	429	423	400	157	51.7	232	154	116	141	147	128	50.8	87	311	17.1	16.3
1902907	01902907	CAWC WILEY	502	325	357	523	466	537	537	578	504	607	545	367	342	0	585	33.7	11.2
1902920	01902920	CC E DURBIN	84.2	98.8	97.9	72.4	56	30.6	28.7	0	0	0	0	12.3	63.2	3.41	12.9	36.6	77.8
1903088	01903088	CC REL 1	93	105	110	59.2	34.3	60.8	83	67.9	66.6	115	80.8	61	44.6	123	114	98	64.4
8000063	08000063	CC W DURBIN	29.6	56.8	57.6	34	28.8	36.8	27.4	16.4	2.14	23.6	27.8	14.2	16.6	20.2	18.4	19.4	26.8
1902531	01902531	CCC ARTESIAN 2	0	0	0.04	0	0.02	0	12.3	0	0.03	0	0	0.01	0	0	0	0	0
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0	0	0.05	0	0	0	0	0	2.62	0	0	0	0	0.03	0	0	0
8000174	08000174	CDWC 14	936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	350	406	150	189	174	368	1041	551	154	1002	702	87.4	26.9	78.6	373	161	326
1903057	01903057	CDWC 3	41.4	1766	1859	1791	1672	1678	1761	1735	1735	1734	1684	1537	1812	1819	1775	1809	1543
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	866	1291	1189	894	653	1291	1314	1293	1093	1319	1330	1181	1075	1520	1572	1065	1180
1902967	01902967	CDWC 6	947	1052	1224	1162	487	1005	1367	957	500	1232	1310	490	206	783	1585	628	239
1903081	01903081	CDWC 8	90.8	146	49	110	30.6	528	869	239	71	774	161	19.7	18.8	108	296	116	165
1900885	01900885	CIC BALDWIN 1	150	411	466	260	246	395	371	354	265	345	465	149	142	196	498	194	55.5

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
8000179	8000179	AZUSA VWC 12 (Azusa 12)	163	140	435	590	136	499	302	224	371
1902589	01902589	B&B REDI MIX 3	0	0	0	0	0	0	0	0	0
8000004	08000004	BAMWUA ROSEHILL	0	0	0	0	0	0	0	0	0
1900415	01900415	BANKS	10.5	11.9	3.99	3.96	11.7	11.4	6.8	10.5	6.61
1901411	01901411	CAMWC 1 SOUTH	0	0	0	0	0	0	0	0	0
8000175	8000175	CAMWC 2 HALL 2	333	361	225	105	403	385	262	359	389
1900497	11900497	CAWC BACON	1.39	5.55	1.32	53	0.31	0.48	0	1.21	0.62
1901441	01901441	CAWC BLUE RIBBON 1	0	0	0	0	0	0	0	0	0
1902787	01902787	CAWC BLUE RIBBON 2	0	0	0	0	0	0	0	0	0
1900355	01900355	CAWC BUENA VISTA	0.03	0	0	0	0	0	0	0	0.27
8000216	8000216	CAWC B-V2	229	424	235	174	394	459	509	256	410
1903018	01903018	CAWC CR HV	291	361	227	53.6	165	198	6.61	12	227
1903059	01903059	CAWC DEL MAR	231	336	144	112	227	76.2	360	297	39.9
8000139	08000139	CAWC ENCANTO	171	331	252	357	196	376	208	314	245
1900358	01900358	CAWC FISH CANYON	0.01	0	1.65	0.07	0	0	0	0.01	0
1900926	01900926	CAWC GRAND	345	423	414	411	418	397	392	112	176
1900918	01900918	CAWC GUESS	0	0	0	0	0	0	0	0	0
1902424	01902424	CAWC HOWLAND	111	1.31	105	142	256	220	178	184	197
1900923	01900923	CAWC IVAR 1	0	0	0	0	0	0	0	0	0
1902867	01902867	CAWC IVAR 2 - ABANDONED	0	0	0	0	0	0	0	0	0
8000140	08000140	CAWC LAS LOMAS 2	0	313	150	141	168	112	3	102	222
1900935	01900935	CAWC LONGDEN	200	238	176	47.6	175	72	0	60.2	152
1900357	01900357	CAWC LOS LOMAS	0	0	0	0	0	0	0	0	0
1900924	01900924	CAWC MARIPOSA 1 - ABANDONED	0	0	0	0	0	0	0	0	0
1900925	01900925	CAWC MARIPOSA 2 - ABANDONED	0	0	0	0	0	0	0	0	0
1903019	01903019	CAWC MARIPOSA 3	411	533	479	272	44.9	441	435	368	417
1900920	01900920	CAWC MISSION VIEW 2	544	552	457	397	549	473	276	402	493
1900356	01900356	CAWC MT. AVE	0	0	0	0	0	0	0	0	0
1900921	01900921	CAWC RICHARDSON 1	0	0	0	0	0	0	0	0	0
1900934	01900934	CAWC ROANOKE	0	0	0	0	0	0	0	0	0
1900927	01900927	CAWC ROSEMEAD	118	258	251	249	324	321	317	94.1	17.1
1900354	01900354	CAWC SANTA FE	265	174	21.1	130	298	337	198	69	99.3
1902907	01902907	CAWC WILEY	608	589	554	236	505	565	548	521	537
1902920	01902920	CC E DURBIN	79	96.7	59.5	59.6	104	37.4	0	0	0
1903088	01903088	CC REL 1	57.2	81.5	94.2	82	124	129	91.9	88.2	118
8000063	08000063	CC W DURBIN	33.4	47.8	22.2	19	48.2	81.8	19.6	20.4	0
1902531	01902531	CCC ARTESIAN 2	0	0	0	0	0	0	0	0	0
1902529	01902529	CCC CLUB - ABANDONED	0	0	0	0	0	0	0	0	0
1903084	01903084	CCC SYCAMORE	0	0	0	0	0.25	0	0	0	0.01
8000174	08000174	CDWC 14	0	0	0	0	0	0	0	0	0
1901181	01901181	CDWC 2	1026	1060	183	457	933	967	270	208	530
1903057	01903057	CDWC 3	1830	1697	1504	1652	1698	1700	1744	1672	1636
1901183	01901183	CDWC 5	0	0	0	0	0	0	0	0	0
8000100	08000100	CDWC 5A	1529	1408	1183	837	1608	1482	1422	1370	1450
1902967	01902967	CDWC 6	558	1636	727	483	962	817	37	97	660
1903081	01903081	CDWC 8	519	742	210	44.8	47.3	1098	534	556	932
1900885	01900885	CIC BALDWIN 1	418	541	278	409	444	397	378	359	324

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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1900883	01900883	CIC BALDWIN 2	0	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0.02
1900882	01900882	CIC BALDWIN 3	0	0	0	0	0	0	0	0	0.71	0	0.47	0	0	0.58	0	0	0.11
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	477	621	262	4.08	224	521	268	0	0	1.1
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	44.3	2.47	29	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	2.08	0	0	0	0	0	133	153	0	0	0	69.3	28.6	0	0	0
1901055	01901055	CLAYTON 2	104	19.2	16	18.8	75.9	29.4	15.1	32.8	99.3	13.1	9.77	12.2	36.8	8.83	11.9	16.6	27.1
1900908	01900908	CMWC 1	9.36	6.66	6.15	7.93	11.1	6.38	4.88	13.7	14.7	3.88	3.96	14.8	10.7	6.89	4.71	9.04	10.4
1902816	01902816	CMWC 2	33.8	22.6	17.8	18.5	30.7	25.1	45.8	11.8	32.9	15.7	19	31.4	29.4	18.7	17.4	28.2	35.7
8000121	08000121	CMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902814	01902814	COCORAN BROS 01	50.8	24.1	30.3	33.8	25.5	26.5	24.2	9.34	0	0	10.6	16.1	0	4.14	7.44	18.1	0
1902581	01902581	COI 1	23.5	7.58	6.7	0.86	0.01	14.5	89.3	0.32	1.1	0	0	0.77	111	26.5	0.01	31	1.01
1902582	01902582	COI 2	15.5	10.6	5.84	28	1.74	0.53	2.82	0	0	1.64	0	0	2.34	0.12	0.03	1.54	0
8000078	08000078	COI 3	607	421	205	275	444	234	201	441	513	316	268	438	376	293	265	291	0
8000096	08000096	COI 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	531
8000097	08000097	COI 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901686	01901686	COVINA 2 (GRAND)	213	193	217	168	201	207	196	136	180	146	65.3	43.7	40.6	19.1	177	207	226
8000012	08000012	CROWN CITY PLATING 01	68.5	75.2	58.6	81.2	70.4	68.6	88	112	56.3	71.9	85.7	72.2	76.9	77.5	77.6	93.3	86.2
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000142	08000142	CSD EX2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000143	08000143	CSD EX3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000144	08000144	CSD EX4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	13.3	14	13.7	13.8	14.1	14.1	13.9	14	14.2	14.3	13.6	11.4	14.2	15.5	13.7	14.4	18.6
1900331	01900331	DRMWC BURKETT	18.3	10.2	10.5	9.32	3.08	0	2.1	0	18.1	0	3.39	21.4	32	15.4	20.7	12.2	17.9
1900332	01900332	DRMWC KLINGERMAN	17.6	12.9	10.4	17.2	19	27.8	8.58	47.3	23	29.4	21.5	4.87	12.1	8.13	7.96	35.1	26.8
1900091	01900091	DUNNING 1910	11.7	7.27	1.9	1.54	3.14	0.45	1.97	1.75	1.92	0.36	0.63	3.15	2.76	1.49	0.01	0.05	0.07
1901699	01901699	EL MONTE 10	264	378	105	142	186	204	619	636	282	506	219	635	387	412	463	386	318
1903137	01903137	EL MONTE 12	0	588	389	437	398	162	0	146	639	153	55.8	283	555	237	15.9	295	564
8000101	08000101	EL MONTE 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901692	01901692	EL MONTE 2A	0	0	224	0	0	0	0	0	0	51.4	91.6	108	72.7	79.1	175	172	124
1901693	01901693	EL MONTE 3	47.4	14.1	91.2	98.8	61.7	44.7	51	118	0	43.6	33.7	0	1.89	25.8	15.7	64.9	9.86
1901694	01901694	EL MONTE 4	124	0	42.4	1.23	297	216	5.85	14.2	4.29	18.8	0	0	0	0	0	10.6	0
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0.23	0.02	0	0	0
1902612	01902612	EL MONTE MTN VIEW	8.27	1.87	0.02	2.97	4.86	1.62	3.03	5.01	7.53	0	3.56	4.18	5.88	3.22	0.52	3.06	6.28
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1900883	01900883	CIC BALDWIN 2	0	0.06	0.03	0	0.02	0.58	0.05	0.02	0	0.01	0	0	0	0.02	0.03	0	0.01
1900882	01900882	CIC BALDWIN 3	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0.03	0	0.58	1.45
1900881	01900881	CIC CONTRACT	0	28.7	625	639	323	0	0.11	0	0	0.04	0	0	0	0.82	0	0	0.11
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	7.65	13.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	7.14	5.62	10	10.4	8.27	8.86	7.57	6.73	5.68	4.15	3.81	3.64	3.44	4.24	4.06	3.65	4
1900908	01900908	CMWC 1	6.8	6.26	8.13	7.94	6.45	7.05	10.8	8.93	11.5	0	16.7	8.57	0	0	0	0	0
1902816	01902816	CMWC 2	23.8	22.8	36	30.9	23.8	22	28.7	25.4	40.5	28.8	78.2	77.5	37.7	39.3	98.3	23	35.2
8000121	08000121	CMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902814	01902814	COCORAN BROS 01	0	2.57	1.44	0	0	0	1.35	0.51	0.14	0.23	0.67	0.12	0	0	0.31	0	0.82
1902581	01902581	COI 1	0	3.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	73.9	0	0	0	0	7.86	0	0	0	0	0	0	0	0	0	0
8000096	08000096	COI 4	302	61.6	101	125	263	288	393	455	199	168	0	5.16	28.6	144	0	38.6	12.4
8000097	08000097	COI 5	0.01	130	326	334	31.7	1	4.94	0	125	103	414	441	352	140	365	412	346
1901686	01901686	COVINA 2 (GRAND)	209	53.2	53.9	105	92.3	214	113	196	197	0	28.9	61.5	0	72.8	11.6	4.1	48.5
8000012	08000012	CROWN CITY PLATING 01	72.1	103	113	73.7	78.4	83.7	72.2	86.8	86.1	89.4	97.7	80.2	90.8	97.8	67.2	69	73.9
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000142	08000142	CSD EX2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000143	08000143	CSD EX3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000144	08000144	CSD EX4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	14.2	0	15.5	14.3	19.6	15.2	14.4	15.5	13.1	14.3	14.7	0	11	18.3	2.56	13.3	15.3
1900331	01900331	DRMWC BURKETT	7.58	24.6	29.8	43.8	27.7	0	71.4	25.2	4.83	16.8	38	38.6	33.7	22.2	34.4	27.5	22.7
1900332	01900332	DRMWC KLINGERMAN	22.7	17.1	5.68	0	0	0	16.8	11.1	25.4	13.1	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	1.23	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	632	610	371	330	336	477	234	449	212	213	143	368	240	495	561	259	379
1903137	01903137	EL MONTE 12	46.2	10.4	180	259	84.5	0.47	337	53.4	199	68.2	211	233	3.13	23.2	62.9	211	109
8000101	08000101	EL MONTE 13	0	0	0	288	212	72.2	221	268	261	306	365	313	367	123	47	357	138
1901692	01901692	EL MONTE 2A	97	252	742	64.9	72.5	146	67.3	164	75.4	6.69	77.5	17.5	9.5	44.1	69.2	67.2	189
1901693	01901693	EL MONTE 3	9.45	1.35	8.22	13.5	0	0	0.01	0.87	0.4	3.11	22.4	63.1	0	0	0	0	0
1901694	01901694	EL MONTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	3.52	1.42	5.06	4.32	4.07	1.88	3.82	6.18	3.86	1.03	1.78	8.11	3.91	1.38	2.9	7.56	3.08
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1900883	01900883	CIC BALDWIN 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900882	01900882	CIC BALDWIN 3	1.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	3.86	5.44	3.84	3.69	7.76	5.34	3.71	4.13	3.51	4.11	4.6	4.46	5.47	3.7	3.63	3.9	4.16
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	18.2	21.2	0	0	0	0.02	3.02	0	0.01	0.03	0	0	0.03	1.21	0	0	0.02
8000121	08000121	CMWC 3	0	0	28.9	24	13.8	28	24.2	12.8	9.91	17.7	28.6	18.2	16.9	24.2	33.5	20.3	15.5
1902814	01902814	COCORAN BROS 01	0.07	0.81	0.31	0	0.26	1.21	0.61	0.3	0.25	0.41	0.72	0.18	0.05	5.8	0.12	0.06	0.24
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	0	0	11.1	9.23	2.09	3.1	0.29	0	0	0	3.31	0	0	2.91	0	0
8000096	08000096	COI 4	256	330	82.7	42.3	88.8	131	232	95.8	174	172	306	199	138	190	155	271	126
8000097	08000097	COI 5	0	0	301	308	146	245	350	217	73.6	210	229	125	130	216	281	259	118
1901686	01901686	COVINA 2 (GRAND)	175	224	22.5	87.9	90.3	84.2	81	75.8	48.7	154	116	165	136	150	215	135	90.4
8000012	08000012	CROWN CITY PLATING 01	61.2	63.1	55.4	66.9	81	85	64.5	67	55.2	62.5	75	71.9	80.3	83	82.2	67.2	81.8
8000130	08000130	CSD E10A	0	0	0	0	0	0	0.04	0.15	0.17	0.32	0.25	0.17	0.12	0.05	0.18	0.12	0.11
8000131	08000131	CSD E11A	0	0	0	0	0	0	0.03	0.14	0.34	0.56	0.43	0.09	0.05	0.09	0.22	0.16	0.33
8000128	08000128	CSD E8A	0	0	0	0	0	0	0.01	0	0.01	0.16	0.2	0.02	0.05	0.01	0.02	0.02	0
8000141	08000141	CSD EX1	0	0	0	0	0	0	0	0	0	0.21	0.15	0.09	0.08	0.05	0.1	0.06	0.06
8000142	08000142	CSD EX2	0	0	0	0	0	0	0	0	0	0.31	0.16	0.12	0.1	0.07	0.07	0.03	0.08
8000143	08000143	CSD EX3	0	0	0	0	0	0	0	0	0	0.13	0.03	0.04	0.03	0.02	0.01	0	0.04
8000144	08000144	CSD EX4	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01
8000104	08000104	CSD LE1	0	0	0	0	0	0	0.61	0.73	0.88	0.75	0.62	0.87	0.72	0.49	0.92	0.47	0.57
8000105	08000105	CSD LE2	0	0	0	0	0	0	0.12	0.12	0.23	0.31	0.13	0.1	0.08	0.04	0.07	0.04	0.05
8000106	08000106	CSD LE3	0	0	0	0	0	0	0.21	0.12	0.18	1.44	1.24	1.01	0.83	0.49	0	0.28	0.23
8000107	08000107	CSD LE4	0	0	0	0	0	0	1.23	1.11	0.83	0.81	0.64	1.34	1.27	0.61	0.93	0.82	0.17
1902924	01902924	DRIFTWOOD 1	11.6	9.22	14.9	14.7	14.2	14.3	14.9	14.7	9.48	14.8	15.2	13.8	13.6	14.1	13.9	15.3	13.2
1900331	01900331	DRMWC BURKETT	36.2	38.5	25.9	23	31.2	29.3	38.9	31.6	27.6	30.8	39	32.3	29.8	36.9	40.2	29.9	26.1
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	381	550	193	408	482	344	344	417	355	138	581	2.53	2.53	1.17	0	0.19	0.01
1903137	01903137	EL MONTE 12	0	0	0	0	0.3	0.69	0	0	0	0.87	0	0	0	0	0	0	0
8000101	08000101	EL MONTE 13	130	31.9	532	239	88.7	336	58	9.83	3.61	516	130	418	462	629	501	337	469
1901692	01901692	EL MONTE 2A	121	117	43.5	24.7	1.08	0	93.4	231	225	58.6	72.6	254	153	18.1	374	221	91.5
1901693	01901693	EL MONTE 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901694	01901694	EL MONTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	1.39	2.21	5.99	4.65	0.67	0.88	8.11	2.68	0.31	3.35	4.39	0.26	0	1.18	11.9	3.91	0.48
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1900883	01900883	CIC BALDWIN 2	7.37	857	545	327	173	479	247	443	676	591	213	28.2	38.9	352	126	20.6	136
1900882	01900882	CIC BALDWIN 3	0	0	0	0	0	0	0	0	237	844	755	456	794	958	729	499	563
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	4.9	4	4	3	2	4	5	4	5	7.18	9.63	11.5	4.82	2.89	2.38	1.22	3.46
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	0.31	0	0	0	0	0	0	0	9	1.27	3.64	15.2	26.1	0	9.15	39.8	0.63
8000121	08000121	CMWC 3	22.2	38	17	9	34	37	18	18	30	34.8	19	8.68	2.37	0	0	19.6	32.6
1902814	01902814	COCORAN BROS 01	1.13	1	0	0	1	1	0	0	0	0.03	0.01	0	0	0	0	0	0
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000096	08000096	COI 4	192	232	198	102	153	247	186	124	282	383	301	276	278	353	278	325	248
8000097	08000097	COI 5	162	316	146	163	253	246	143	177	271	430	321	259	266	422	227	250	438
1901686	01901686	COVINA 2 (GRAND)	208	37	3	24	115	3	22	10	0	5.81	0.24	0	0.03	0.14	0.09	0	0.04
8000012	08000012	CROWN CITY PLATING 01	74	76	84	72	93	86	86	85	77	73	73.6	74.7	74.9	88.1	74.6	65.3	65.2
8000130	08000130	CSD E10A	0.16	0	0	0	0	0	0	0	0	0.01	0	0	0.09	0.01	0	0	0
8000131	08000131	CSD E11A	0.23	0	1	0	0	0	0	0	0	0.05	0.1	0.16	0.26	0.21	0	0	0
8000128	08000128	CSD E8A	0.11	0	0	0	0	0	0	0	0	0.1	0.02	0.08	0.13	0.04	0	0	0
8000141	08000141	CSD EX1	0.04	0	0	0	0	0	0	0	0	0.06	0.06	0.07	0.08	0	0.03	0.1	0.09
8000142	08000142	CSD EX2	0.05	0	0	0	0	0	0	0	0	0.01	0.01	0.03	0.15	0.07	0.02	0.03	0.02
8000143	08000143	CSD EX3	0.04	0	0	0	0	0	0	0	0	0	0	0.03	0.08	0.01	0	0.01	0.01
8000144	08000144	CSD EX4	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0	0	0.01
8000104	08000104	CSD LE1	0.27	1	1	0	0	0	0	0	1	0.17	0.64	0.26	0.32	0	0	0	0
8000105	08000105	CSD LE2	0.06	0	0	0	0	0	0	0	0	0.05	0.07	0.08	0.11	0.06	0	0	0
8000106	08000106	CSD LE3	0.15	0	0	0	0	0	0	0	0	0.07	0.42	0.33	0.18	0.01	0	0	0
8000107	08000107	CSD LE4	0	1	0	1	0	0	0	1	0	0	0.47	0.32	0.23	0	0	0	0
1902924	01902924	DRIFTWOOD 1	14.5	16	14	15	14	15	12	15	13	14.3	13.2	14.8	15	13.7	13.8	14.4	12.5
1900331	01900331	DRMWC BURKETT	44	35	23	23	45	50	28	32	34	44.5	27.1	21.4	30.8	54.8	24.2	21.2	35.5
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903137	01903137	EL MONTE 12	0	0	0	0	0	0	1	266	724	449	240	279	210	495	359	319	150
8000101	08000101	EL MONTE 13	705	832	688	601	672	895	356	1	11	395	360	174	392	290	184	122	189
1901692	01901692	EL MONTE 2A	2.53	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13	1.4
1901693	01901693	EL MONTE 3	0	0	0	0	0	0	0	0	0	0	0	0.59	3.13	0.17	0.3	0.25	0
1901694	01901694	EL MONTE 4	2.63	1	2	1	5	17	159	197	76	43.7	93.9	130	68.6	78.6	91	180	368
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	4.91	9	3	1	5	8	3	3	7	7.68	3.03	0.45	1.93	6.13	0.46	0	0
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1900883	01900883	CIC BALDWIN 2	804	509	376	781	814	702	396	642	735	672	690	648	640	628	598	604	622
1900882	01900882	CIC BALDWIN 3	892	860	788	842	841	812	513	681	812	792	777	747	775	723	677	731	761
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	6.47	5.45	4.39	0.94	0.02	0.06	0.03	0.02	0.02	0	2	0.57	0.28	0	0	0	0.03
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	1.36	0.09	0.06	0.9	1.1	0.01	0.02	0.61	0.7	2.51	5.5	4.67	42.6	0.02	0.15	2.9	0
8000121	08000121	CMWC 3	38.2	31	24.6	35.3	37.9	23.9	18.6	34	36.2	18.1	17.7	20.2	16.1	19.2	23.4	18.7	35
1902814	01902814	COCORAN BROS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	1.29	0.94	0.73	0	0.83	0.01	0.01	0	0	0	0	0	0.03	0	0.5	0.11	0.01
8000096	08000096	COI 4	357	372	234	255	102	0.75	1.16	0.91	3.53	1.03	0.33	0.8	1.12	1.6	1.57	0.55	0.6
8000097	08000097	COI 5	340	211	196	328	404	347	265	380	482	355	19	1.38	0.96	0.86	2.36	2.1	1.43
1901686	01901686	COVINA 2 (GRAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000012	08000012	CROWN CITY PLATING 01	86.2	84.3	93.2	100	99.6	93.7	87.1	88.6	77.7	86	81	75.2	79.3	77.3	70.4	80.6	75.2
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0.09	0.09	0.09	0.09	0.08	0.06	0.1	0.08	0.08	0.08	0.09	0.1	0.05	0.09	0.08	0.1	0.1
8000142	08000142	CSD EX2	0.02	0.01	0	0.01	0.01	0	0.01	0.02	0.02	0.03	0.03	0.05	0.04	0.04	0.06	0.08	0.08
8000143	08000143	CSD EX3	0.01	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0.01	0.01	0.01
8000144	08000144	CSD EX4	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0.01	0.01
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	13.1	12.4	13.9	12.2	8.31	0.85	10.1	17.5	12.6	12.9	13.3	11.6	10.4	14	12.9	14.6	13.6
1900331	01900331	DRMWC BURKETT	49.9	24	24.9	42.3	52.2	36.6	29.5	42.4	51.4	27	33.8	42.9	50	30.2	43	20.4	48.5
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903137	01903137	EL MONTE 12	94.6	313	90.3	286	542	313	184	332	307	246	171	350	394	108	247	451	314
8000101	08000101	EL MONTE 13	135	19.5	26.3	407	108	6.49	86.2	241	218	148	175	162	129	133	55.6	31.7	99.4
1901692	01901692	EL MONTE 2A	257	151	131	30.2	193	173	131	108	152	129	63.4	113	170	189	108	103	201
1901693	01901693	EL MONTE 3	0	19.2	0.22	0	0.04	0	0	0	0.07	0	0	0	0	0	0	0	0
1901694	01901694	EL MONTE 4	363	242	314	34.7	61.2	190	123	112	162	175	201	147	227	229	168	135	230
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	0	0	0	0	5.92	0.72	0.02	3.63	7.98	1.12	2.55	5.11	0	0	0	0	0
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1900883	01900883	CIC BALDWIN 2	648	623	644	594	479	467	794	870	832	780	840	865	771	713	683	568	333
1900882	01900882	CIC BALDWIN 3	781	778	767	745	718	755	823	872	874	814	846	879	853	815	780	699	504
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	0	0	2.79	15.7	0	0	0	1.23	0.04	0.03	0.17	1.04	0.04	2.4	7.04	0.59	5.28
8000121	08000121	CMWC 3	25.2	12.8	39.3	15.6	18.8	17.2	23	28.5	16.1	19.4	21.8	40.5	27.6	17.1	20.6	31	13.4
1902814	01902814	COCORAN BROS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000096	08000096	COI 4	1.14	0.45	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000097	08000097	COI 5	1.7	1.57	0.12	0	0	0	0	0	0	0	0	0	0	0	82.9	0	0
1901686	01901686	COVINA 2 (GRAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000012	08000012	CROWN CITY PLATING 01	76	68.5	71.1	47.2	7.58	0	0	0.02	0	0	0	0	0	0	0	0	0
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0.1	0.11	0.22	0.09	0.09	0.18	0.45	0.17	0.22	0.03	0.07	0.07	0.05	0.05	0.04	0.09	0.07
8000142	08000142	CSD EX2	0.07	0.09	0.1	0.07	0.08	0.55	0.37	0.38	0.16	0.28	0.17	0.13	0.1	0.1	0.07	0.05	0.02
8000143	08000143	CSD EX3	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.01	0.03	0.01	0.03	0.01	0.01	0.01	0.01	0	0
8000144	08000144	CSD EX4	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.03	0.02	3.73	0.02	0.01	0.01	0.01	0.01	0	0
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	13.4	12.8	15.3	15.7	16.3	16	20.1	15.6	16.1	0	0	17.6	19.3	20.9	21	5.88	0
1900331	01900331	DRMWC BURKETT	0	54.8	42.6	42.7	0.57	50.3	28.9	15.5	28	23.6	35	43.9	26.4	24.8	34.7	37.4	23.3
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	0	0	94.8	325	188	195	216	138	155	170	171	116	111	163	136	58.8	99.7
1903137	01903137	EL MONTE 12	305	205	185	181	152	114	186	77.5	165	156	33.4	127	119	51.4	252	265	182
8000101	08000101	EL MONTE 13	145	136	52.3	3.49	71.2	33	133	241	155	153	315	401	224	143	158	364	302
1901692	01901692	EL MONTE 2A	82.8	109	98.2	202	104	135	128	197	113	90.3	75.8	116	116	134	117	81.3	99.8
1901693	01901693	EL MONTE 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901694	01901694	EL MONTE 4	105	154	269	146	98.2	69.9	53.9	187	79.8	43.2	115	83.1	95.2	79.3	46.5	1.94	1.9
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	0	0	0	0	0	0	0	0	0	0	0	360	611	550	641	527	435
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1900883	01900883	CIC BALDWIN 2	294	548	518	356	326	474	439	395	76.2	120	479	125	125	143	453	112	8.26
1900882	01900882	CIC BALDWIN 3	504	692	712	671	207	632	641	615	412	468	611	64	158	75.5	409	42	20.9
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	3.16	0.56	0.6	0.03	0.01	0.05	0.26	0.01	0.13	0.03	0.37	0.02	0.02	0.17	2.65	0.37	0.39
8000121	08000121	CMWC 3	16.1	28.7	30.7	24.5	19	23.8	25.2	12	14.7	21.5	26.2	19	20.7	22.2	23.9	19.4	19.4
1902814	01902814	COCORAN BROS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000096	08000096	COI 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000097	08000097	COI 5	0	8.55	0.28	0	0.58	0.73	415	482	389	0	487	481	427	0	433	404	479
1901686	01901686	COVINA 2 (GRAND)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000012	08000012	CROWN CITY PLATING 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0.1	0.1	0.13	0.11	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.12	0.19	0.18	0.12	0.11	0.11
8000142	08000142	CSD EX2	0.06	0.1	0.1	0.11	0.09	0.07	0.05	0.04	0.1	0.09	0.04	0.1	0.32	0.18	0.12	0.12	0.06
8000143	08000143	CSD EX3	0.01	0.02	0.03	0.02	0.03	0	0	0	0	0	0	0	0.01	0.01	0	0.01	0.01
8000144	08000144	CSD EX4	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.02	0.01	0.01	0.01
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	15	10.9	39.2	29.2	40	41.5	33.2	25	14.2	14.7	15.4	12.5	14.5	14.7	20.1	18.1	11.8
1900331	01900331	DRMWC BURKETT	25.9	33.9	37	26.1	22.3	32.4	58.7	18.7	25.9	37.2	45.1	30.4	15.2	19.7	36.7	49.5	4.78
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	151	182	111	43.9	80.2	220	260	174	168	229	161	257	218	97.4	170	119	148
1903137	01903137	EL MONTE 12	53.4	348	235	139	190	176	321	270	209	88.7	309	72.6	79.9	281	345	152	148
8000101	08000101	EL MONTE 13	283	105	270	402	194	114	123	8.45	25.2	140	110	113	63.6	96.2	72.3	122	89.8
1901692	01901692	EL MONTE 2A	107	84.6	152	14.9	69.8	147	3.42	107	74.5	132	109	66.3	108	112	91.1	117	87.3
1901693	01901693	EL MONTE 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901694	01901694	EL MONTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	118	14.5	440	42.6	10.2	352	760	610	94.8	119	599	429	660	709	656	473	563
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1900883	01900883	CIC BALDWIN 2	229	463	105	195	428	397	402	392	357
1900882	01900882	CIC BALDWIN 3	353	706	284	467	655	683	635	608	616
1900881	01900881	CIC CONTRACT	0	0	0	0	0	0	0	0	0
1900880	11900880	CIC VALEN	0	0	0	0	0	0	0	0	0
1900880	21900880	CIC VALEN.#2	0	0	0	0	0	0	0	0	0
1901055	01901055	CLAYTON 2	0	0	0	0	0	0	0	0	0
1900908	01900908	CMWC 1	0	0	0	0	0	0	0	0	0
1902816	01902816	CMWC 2	4.48	11.4	6.13	4.65	18	27.2	1.93	0.01	0.02
8000121	08000121	CMWC 3	19.8	14.1	6.67	3.76	0.66	0	19.2	16.6	20.9
1902814	01902814	COCORAN BROS 01	0	0	0	0	0	0	0	0	0
1902581	01902581	COI 1	0	0	0	0	0	0	0	0	0
1902582	01902582	COI 2	0	0	0	0	0	0	0	0	0
8000078	08000078	COI 3	0	0	0	0	0	0	0	0	0
8000096	08000096	COI 4	0	0	0	0	0	0	0	0	0
8000097	08000097	COI 5	32	482	485	385	0	466	468	428	202
1901686	01901686	COVINA 2 (GRAND)	0	0	0	0	0	0	0	0	0
8000012	08000012	CROWN CITY PLATING 01	0	0	0	0	0	0	0	0	0
8000130	08000130	CSD E10A	0	0	0	0	0	0	0	0	0
8000131	08000131	CSD E11A	0	0	0	0	0	0	0	0	0
8000128	08000128	CSD E8A	0	0	0	0	0	0	0	0	0
8000141	08000141	CSD EX1	0.12	0.11	0.1	0.1	0.1	0.1	0.1	0.09	0.09
8000142	08000142	CSD EX2	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.01
8000143	08000143	CSD EX3	0.01	0	0.01	0	0	0	0	0	0
8000144	08000144	CSD EX4	0.01	0.01	0	0	0	0	0	0	0
8000104	08000104	CSD LE1	0	0	0	0	0	0	0	0	0
8000105	08000105	CSD LE2	0	0	0	0	0	0	0	0	0
8000106	08000106	CSD LE3	0	0	0	0	0	0	0	0	0
8000107	08000107	CSD LE4	0	0	0	0	0	0	0	0	0
1902924	01902924	DRIFTWOOD 1	26.6	20.4	23.3	24.2	23.2	20.7	17.6	2.05	0
1900331	01900331	DRMWC BURKETT	31	36	27	19	39	30	39	27	31
1900332	01900332	DRMWC KLINGERMAN	0	0	0	0	0	0	0	0	0
1900091	01900091	DUNNING 1910	0	0	0	0	0	0	0	0	0
1901699	01901699	EL MONTE 10	46	159	105	49.4	139	81.2	191	149	271
1903137	01903137	EL MONTE 12	262	67.2	227	167	248	294	148	0	0
8000101	08000101	EL MONTE 13	206	350	146	98.2	128	210	150	67.4	187
1901692	01901692	EL MONTE 2A	97.9	118	78.5	132	108	132	58.1	172	184
1901693	01901693	EL MONTE 3	0	0	0	0	0	0	0	0	0
1901694	01901694	EL MONTE 4	0	0	0	0	0	0	0	0	0
1901695	01901695	EL MONTE 5	0	0	0	0	0	0	0	0	0
1902612	01902612	EL MONTE MTN VIEW	0	0	0	0	0	0	0	0	0
EPAEW401	EPAEW401	EPA EW 4-1	0	0	0	0	0	0	0	0	0
EPAEW402	EPAEW402	EPA EW 4-2	0	0	0	0	0	0	0	0	0
8000200	EPAEW405	EPA EW 4-5	1028	1022	958	885	527	387	404	534	395
EPAEW403	EPAEW403	EPA EW4-3	0	0	0	0	0	0	0	0	0
EPAEW404	EPAEW404	EPA EW4-4	0	0	0	0	0	0	0	0	0
EPAEW408	EPAEW408	EPA EW4-8	0	0	0	0	0	0	0	0	0
EPAEW409	EPAEW409	EPA EW4-9	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1901508	11901508	EPWC 09	429	314	231	354	468	277	298	430	462	253	61.7	179	474	311	283	417	468
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	149	27.4	1.08	97.4	210	69.9	149	213	203	192	183	209	201	114	58.9	181	163
1900826	01900826	GLENDORA 11E	279	21.3	25.8	199	152	0	2.59	182	103	138	0	128	341	138	8.91	236	237
1900827	01900827	GLENDORA 12G	1113	1230	1265	1468	509	967	0	606	600	516	1064	1119	780	1185	1453	1656	950
8000184	08000184	GLENDORA 13E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901523	01901523	GLENDORA 1E	147	109	57.5	136	139	63.1	30.2	130	171	152	149	106	0	98.7	51.8	174	169
1901526	01901526	GLENDORA 2E	159	72.9	37.6	149	155	69.8	30.5	41	0	0	61.3	178	155	64.9	44	150	144
1901525	01901525	GLENDORA 3G	19.1	0	0.59	0.01	0.97	0	4.42	11.8	24.1	0	0.32	14.6	0	0	0	0	2.66
1901524	01901524	GLENDORA 4E	1.32	0.02	0.14	1.77	1.07	0	19	0.19	90.8	0	0	0	0	0	0	0	2.86
8000149	08000149	GLENDORA 5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900831	01900831	GLENDORA 7G	143	0	1.31	5.19	136	0.37	0	75.7	0	0	0.28	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	389	237	0	330	505	368	517	300	48	0	243	373	105	281	188	238	253
1900830	01900830	GLENDORA 9E	483	207	160	160	323	222	497	364	265	60.9	165	238	359	156	93	282	473
8000085	08000085	HARTLEY	0.72	0.5	0.26	0.86	0.7	0.41	0.32	1.24	0.8	0.31	0.38	0.4	0	0	0	0	0
1901178	01901178	HMWC NORTH	42.3	30.4	24.8	38.4	56.7	30.3	25.1	3.22	46.1	27.6	23.6	37.9	52.5	33.8	30.8	41.3	43
1902806	01902806	HMWC SOUTH	17.2	0.37	0	0	2.08	0.22	8.58	19.7	27.9	7.44	6.07	15.7	14.6	1.43	1.25	15.2	25.2
8000088	08000088	LACO BIG RED	49.2	66.2	0	8.94	25.2	0.07	0	0	71.8	40.1	29.8	58.6	100	108	62.6	101	151
8000089	08000089	LACO NEW LAKE	108	108	47.2	60	79	49	32	40	164	134	128	227	278	171	139	261	249
8000070	08000070	LACO SANTA FE 1	397	130	0	82	90	0	32	297	413	106	160	383	400	150	74.7	346	311
1902579	01902579	LACO WHITTIER 1	138	22.6	0	0.05	169	0.16	0	0	0	294	50	94.6	258	19.3	0	357	509
1902580	01902580	LACO WHITTIER 2	144	181	43.4	196	0	157	115	230	350	93.8	55.2	185	234	126	56.4	87.6	94
1902663	01902663	LACO WHITTIER 3	67.2	26.9	7.4	0	0	2.5	30	42	7.5	25	60	72.1	3.97	5.75	5.51	61.2	25.9
8000150	08000150	LACO WHITTIER 3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902664	01902664	LACO WHITTIER 4	58.5	27.8	9.96	57.8	76.9	14.5	28	64.7	67.2	29.7	21.1	67.6	81.1	29	14.7	9.22	1.36
1902665	01902665	LACO WHITTIER 5	80.3	0	0	0	0	0	0.25	54	75.1	34	23.4	76.5	109	36.8	14	102	18.6
1902666	01902666	LACO WHITTIER 6	1.28	0.64	1.3	1.72	1.27	0.98	0.81	1.15	1.13	1.29	1.52	2.62	0	0	0	0.23	2.05
1901492	01901492	LIVINGSTON EL1	150	122	88.5	159	176	113	0	165	170	152	172	183	162	164	148	212	197
1901493	01901493	LIVINGSTON EL3	162	215	158	279	300	314	296	281	266	236	268	285	277	262	194	259	366
1903006	01903006	LIVINGSTON EL4	12.9	22.1	17.3	10.4	34.2	22.1	27.7	39.4	41	35.7	31.4	49.7	59.3	57.4	37.6	39	44.5
1901460	01901460	LPVCWD 2	724	227	101	368	688	29.8	41.2	363	331	19.4	1.51	218	523	90.2	38.9	407	511
1902859	01902859	LPVCWD 3	0	0.05	0.09	0.01	9.64	0	0.02	5.93	0	0	0.01	0	0	0	0	0	0
8000062	08000062	LPVCWD 4	164	248	296	373	296	367	423	261	421	333	192	388	166	279	341	175	189
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	44	20.8	11	28.1	38.1	16.6	13	38.1	20.1	12.2	13.3	30.7	49	22.1	15.5	38.2	42.5
8000075	08000075	MILLER 01	1028	910	792	1094	1122	962	956	1172	1202	872	904	1172	1244	1128	1110	1278	1760
1900417	01900417	MONROVIA 1	37.8	72.7	8.22	4.28	2.63	2.07	155	136	37.4	3.78	3.14	12.7	175	56.9	18.9	17.3	167
1900418	01900418	MONROVIA 2	11.1	3.14	49.7	807	853	372	0	0	351	529	373	371	260	77.2	25.8	190	208
1900419	01900419	MONROVIA 3	503	85.9	87.9	211	656	383	458	783	663	349	160	422	702	416	254	476	607
1900420	01900420	MONROVIA 4	899	640	478	327	508	301	49.9	432	842	336	357	649	754	558	534	704	791
1940104	01940104	MONROVIA 5	980	712	568	351	424	355	927	979	782	357	474	776	807	527	550	800	887
8000171	8000171	MONROVIA 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000126	08000126	MONT PK FERN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900453	01900453	MONT PK MW-1	271	169	191	130	247	126	74.9	146	261	137	105	182	297	132	164	158	182
1902818	01902818	MONT PK MW-10	132	122	166	351	394	176	212	363	353	97.6	71.4	225	209	173	106	174	236

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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1901508	11901508	EPWC 09	348	224	341	425	300	310	394	492	354	290	416	534	385	299	365	484	361
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	147	27.9	173	145	99.2	72.6	139	164	84.7	10.7	153	145	111	1.56	3.57	0	0
1900826	01900826	GLENDORA 11E	181	4.65	130	194	33.6	27.4	111	226	83.2	0.64	173	255	182	137	183	219	189
1900827	01900827	GLENDORA 12G	508	1260	1163	568	599	1123	1235	935	971	797	1366	853	778	1053	1253	942	955
8000184	08000184	GLENDORA 13E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901523	01901523	GLENDORA 1E	154	101	149	161	129	99.4	138	145	64.2	61.9	49.2	97.2	117	114	101	105	90.3
1901526	01901526	GLENDORA 2E	129	71	119	106	65.5	55.1	89.4	86.9	43.7	40.4	34.8	31.2	4.59	0.17	8.91	0	0.05
1901525	01901525	GLENDORA 3G	0	1.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	11.2	0	0	0	0	0	0	0	0	0	0	0	1.27	0	0	0.19
8000149	08000149	GLENDORA 5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900831	01900831	GLENDORA 7G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09
1900829	01900829	GLENDORA 8E	104	272	393	0	3.71	308	496	410	330	469	438	290	198	370	477	372	407
1900830	01900830	GLENDORA 9E	337	344	496	323	236	437	567	586	428	361	280	403	382	313	390	406	503
8000085	08000085	HARTLEY	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	33.3	28.2	54.3	59.3	29.1	53.5	38.4	42.8	7.3	0	4.01	36.1	38	35.2	23.2	0	30.3
1902806	01902806	HMWC SOUTH	5.08	3.75	25.2	0	0	0	16	24.1	29.4	30.7	46.8	29.5	7.26	0.61	19.7	52.5	8.83
8000088	08000088	LACO BIG RED	124	85.2	140	147	121	129	94.5	124	136	125	121	87.4	236	146	162	59.7	10.9
8000089	08000089	LACO NEW LAKE	239	204	291	277	171	152	236	286	232	230	282	309	320	250	308	283	260
8000070	08000070	LACO SANTA FE 1	171	99	355	336	137	182	285	402	66.8	50	169	53.5	272	115	232	495	249
1902579	01902579	LACO WHITTIER 1	126	44.8	239	525	419	23.7	0	0	0	46.3	336	526	487	173	256	406	182
1902580	01902580	LACO WHITTIER 2	16.5	36.1	173	206	69.3	65.4	188	228	98	27.7	152	196	135	75.8	158	191	132
1902663	01902663	LACO WHITTIER 3	3.99	1.86	7.21	8.45	1.98	0.06	25	26	25.8	8.51	59.3	79.9	30	3.6	69.4	77.4	37
8000150	08000150	LACO WHITTIER 3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902664	01902664	LACO WHITTIER 4	14.3	37.8	86.5	79.5	26.3	9.71	65	88.5	32.5	2.37	5.31	47.3	10.7	0.04	0.02	64.8	11.4
1902665	01902665	LACO WHITTIER 5	24.4	4.63	0.01	0.15	4.41	15.8	37.8	60.1	13.1	4.58	87.1	74.9	34.2	4.72	75.3	86.3	56.1
1902666	01902666	LACO WHITTIER 6	0	0.02	0.01	0.01	0.02	0.04	0	0	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	192	174	220	215	191	190	136	205	160	199	195	203	196	189	142	131	118
1901493	01901493	LIVINGSTON EL3	376	339	420	374	338	334	305	304	288	307	322	350	325	333	278	262	288
1903006	01903006	LIVINGSTON EL4	42.5	40.6	48.1	42.9	29.4	28.1	40.5	49.3	41.5	38.6	38.3	36.6	56.8	43.8	48.9	56.5	43
1901460	01901460	LPVCWD 2	155	110	335	519	204	264	573	692	345	166	472	549	115	31.5	226	657	139
1902859	01902859	LPVCWD 3	0	0	0	0.01	0	0	0	0	0	0	0	221	431	290	393	252	393
8000062	08000062	LPVCWD 4	313	300	257	184	273	210	46.9	47.6	39.4	270	186	81.1	32.1	35.2	30.6	46	53.5
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	39.3	19.7	18.5	19.3	25.6	24.8	18.7	22.6	24.1	3.43
1900042	01900042	MAPLE W2	16.2	17.9	58.4	12.5	11.8	0	28.8	5.7	5.74	1.27	20.1	19	0	0	8.36	16.9	25.4
8000075	08000075	MILLER 01	1310	1394	1672	1674	1462	1346	1806	1192	1542	1250	1538	1678	1390	902	1936	1418	1156
1900417	01900417	MONROVIA 1	174	0	166	390	68.6	238	314	310	132	164	291	371	237	183	228	139	47.6
1900418	01900418	MONROVIA 2	49	28.8	128	105	44.5	115	236	383	152	313	401	471	382	262	307	198	178
1900419	01900419	MONROVIA 3	266	323	456	577	405	501	562	493	420	486	605	592	456	234	135	612	851
1900420	01900420	MONROVIA 4	621	620	758	823	560	337	493	620	556	263	416	600	362	343	378	794	316
1940104	01940104	MONROVIA 5	597	616	851	834	650	492	674	731	591	267	570	730	609	573	720	746	595
8000171	8000171	MONROVIA 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000126	08000126	MONT PK FERN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900453	01900453	MONT PK MW-1	144	168	201	265	113	109	111	275	94.8	47.8	193	302	160	185	245	239	218
1902818	01902818	MONT PK MW-10	95.7	144	223	257	75.2	71.8	200	175	152	56.1	101	215	128	209	231	78.6	68.7

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1901508	11901508	EPWC 09	261	248	390	313	242	328	385	302	229	347	434	336	297	440	494	357	319
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	0.04	48.3	154	72.4	24.1	164	203	65.3	0.26	88.4	294	188	23.1	116	148	1.1	1.05
1900826	01900826	GLENDORA 11E	83.4	230	221	117	20.6	161	184	51.3	0.09	187	359	216	256	301	276	227	9.07
1900827	01900827	GLENDORA 12G	530	906	1082	1000	967	1113	1249	1114	1093	1236	1061	869	846	843	881	793	1216
8000184	08000184	GLENDORA 13E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901523	01901523	GLENDORA 1E	73.5	91.9	21.9	1.84	0.02	0.42	124	0	13.7	153	94.7	181	206	201	196	172	79.7
1901526	01901526	GLENDORA 2E	0.04	39.1	152	118	79	44	193	166	62.7	210	242	204	200	214	216	188	24
1901525	01901525	GLENDORA 3G	0	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900831	01900831	GLENDORA 7G	0	0	0.14	0	0	0	0	0	0	5.44	20	4.73	0	0	0	0	0
1900829	01900829	GLENDORA 8E	271	472	464	379	315	505	528	404	396	495	372	303	140	140	311	163	342
1900830	01900830	GLENDORA 9E	315	456	476	473	301	467	463	402	167	569	494	502	407	414	491	416	144
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	18.4	0	20.5	16.8	28.5	9.44	36.5	25	1.75	11.8	45.1	35.5	30.6	32.2	34.3	33.2	33.1
1902806	01902806	HMWC SOUTH	11.6	36.9	29.7	25.9	0.35	29.6	14.2	10.2	24.1	30.2	9.31	4.34	2.24	10.6	26.7	7.36	1.52
8000088	08000088	LACO BIG RED	0	18.2	70.3	62	44.6	92.8	105	78.9	0	0	0	0.61	0.83	0.65	87	84.5	84.7
8000089	08000089	LACO NEW LAKE	153	191	184	46.8	245	282	287	298	127	266	241	97.8	154	174	291	171	140
8000070	08000070	LACO SANTA FE 1	74	287	384	225	57.2	328	406	96.2	0.65	256	443	154	136	339	415	203	0
1902579	01902579	LACO WHITTIER 1	157	134	413	235	0.31	147	496	507	478	494	396	401	444	324	413	218	0
1902580	01902580	LACO WHITTIER 2	51.2	139	178	121	40.6	147	208	79.4	13.6	97.1	224	119	46.6	119	225	98.9	24.7
1902663	01902663	LACO WHITTIER 3	12.6	66.5	69.3	23.2	1.94	25.6	0	0	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902664	01902664	LACO WHITTIER 4	0	5.4	77.5	33.4	13.4	68.7	94.5	51.6	12.6	79.8	75.8	36.1	19	95	73.5	33.6	0.86
1902665	01902665	LACO WHITTIER 5	23.3	74.8	77.2	35.8	2.35	52.2	87.2	46.8	5.87	72	93.6	42.3	21.5	87.3	78	24.7	11.6
1902666	01902666	LACO WHITTIER 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.74	0.92
1901492	01901492	LIVINGSTON EL1	66.7	81.8	84	97.6	167	122	188	143	109	168	136	111	86.8	45.8	72.1	59.8	16.9
1901493	01901493	LIVINGSTON EL3	177	276	282	208	190	30.9	150	244	167	281	319	249	219	112	195	216	186
1903006	01903006	LIVINGSTON EL4	30.9	35.7	61.3	76.3	42.6	50.8	37.2	27.2	30.9	30.6	28.3	23.9	22	50.1	55.3	47.5	23.2
1901460	01901460	LPVCWD 2	99.4	85.8	279	138	48.8	0.85	283	389	167	325	441	192	226	186	385	581	405
1902859	01902859	LPVCWD 3	224	400	388	378	257	363	273	116	233	269	201	352	248	354	200	0.36	5.58
8000062	08000062	LPVCWD 4	1.35	39.4	1.65	0	0	0.6	26.7	14.8	3.71	30.9	73.1	2.36	1.23	71.5	125	10.1	36.7
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	3.66	0.64	18.1	30.7	13.6	31.4	0.45	1.32	0.28	0.42	70.9	6.23	4.18	0.12	0.19	8.62	0.02
1900042	01900042	MAPLE W2	17	26.2	0	6.07	4.13	0.63	41.1	24.9	19	36.6	0.5	0.41	22	41.6	67.9	12.5	22.3
8000075	08000075	MILLER 01	1042	1082	1164	926	930	1082	1160	932	1028	1116	1122	914	1020	1114	1136	860	988
1900417	01900417	MONROVIA 1	26.2	1.39	0.39	0.03	4.06	0.47	0.81	4.21	2.03	0.72	0.56	0.49	9.49	6.04	30.7	66.6	38.4
1900418	01900418	MONROVIA 2	37.2	57	463	411	115	445	351	554	502	577	553	187	132	393	343	298	27
1900419	01900419	MONROVIA 3	747	629	519	386	161	182	427	404	153	571	544	674	707	661	983	513	628
1900420	01900420	MONROVIA 4	424	243	146	448	184	118	362	40.2	30.4	520	646	758	336	335	751	671	432
1940104	01940104	MONROVIA 5	125	742	925	421	778	1113	1271	671	554	402	702	203	260	495	534	254	180
8000171	8000171	MONROVIA 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000126	08000126	MONT PK FERN	0	0	0	0	36.1	183	487	300	156	371	447	475	469	397	474	413	362
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900453	01900453	MONT PK MW-1	139	162	277	207	94.1	129	219	56.8	0	20.6	214	169	131	227	318	213	20.8
1902818	01902818	MONT PK MW-10	126	200	80.3	120	68.3	0.31	0.74	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1901508	11901508	EPWC 09	366	466	357	318	530	535	370	356	508	552	447	194	269	545	404	345	424
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	0.47	2	0	1	0	201	117	63	308	304	139	3.17	127	335	210	132	213
1900826	01900826	GLENDORA 11E	234	346	336	206	336	389	192	130	326	331	105	3.69	93.4	334	142	91.3	194
1900827	01900827	GLENDORA 12G	1315	1740	955	788	1196	1361	1158	501	895	1032	1065	1053	905	1565	629	412	621
8000184	08000184	GLENDORA 13E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901523	01901523	GLENDORA 1E	178	227	179	198	197	65	158	123	220	222	89.4	31.6	132	231	168	147	167
1901526	01901526	GLENDORA 2E	191	240	160	182	234	256	150	99	216	207	28.3	23.3	92.7	251	180	207	221
1901525	01901525	GLENDORA 3G	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	1.06	561	702	550	612	519	441	538	604	575	382	130	245	409	507	486	547
1900831	01900831	GLENDORA 7G	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	99.8	2	0	0	41	5	6	427	490	496	393	408	591	554	326	256	393
1900830	01900830	GLENDORA 9E	322	175	0	35	565	634	536	387	275	513	539	108	355	509	470	429	486
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	40	47	42	33	35	32	32	25	30	28.3	18.6	21.6	27.3	42.8	31.4	26.7	31.5
1902806	01902806	HMWC SOUTH	4.93	23	5	1	20	32	7	7	17	28.5	13.5	3.26	3.61	5.77	3.63	3.11	3.96
8000088	08000088	LACO BIG RED	84.2	75	70	15	70	64	85	69	42	71.2	46.2	1.04	66.1	52.2	54.2	51.7	43.2
8000089	08000089	LACO NEW LAKE	255	266	291	176	204	296	308	285	290	181	139	264	365	116	86.1	229	334
8000070	08000070	LACO SANTA FE 1	287	329	227	70	671	313	233	163	313	325	173	24.7	221	406	159	152	249
1902579	01902579	LACO WHITTIER 1	252	358	329	251	380	307	387	328	296	334	208	59.8	234	342	325	191	566
1902580	01902580	LACO WHITTIER 2	186	145	61	13	102	138	49	23	137	162	72.9	28.4	67.3	46.1	54.2	78.7	146
1902663	01902663	LACO WHITTIER 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	58.8	107	15	13	80	104	28	26	77	83.5	23.5	1.01	26.6	71	26.1	13.8	65.4
1902664	01902664	LACO WHITTIER 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902665	01902665	LACO WHITTIER 5	134	119	63	14	109	136	44	42	109	161	69.6	12.6	88.4	176	74	29.5	119
1902666	01902666	LACO WHITTIER 6	2.46	4	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	90.1	61	56	53	27	7	15	0	34	34	34.8	45.8	33.4	54.4	60.8	39.5	23.5
1901493	01901493	LIVINGSTON EL3	267	225	272	237	262	277	230	245	74	27.5	20.4	30.7	2.77	115	78.4	15.4	10.5
1903006	01903006	LIVINGSTON EL4	32.2	47	47	41	54	56	33	33	10	7.55	4.95	3.68	8.31	13.9	10.2	7.97	9.68
1901460	01901460	LPVCWD 2	494	572	605	482	382	170	535	349	320	0	0	0	0	0	0.03	0.04	0.03
1902859	01902859	LPVCWD 3	133	120	0	0	323	614	35	142	220	0	0	0	0	0.02	0.02	0.04	0.14
8000062	08000062	LPVCWD 4	0.04	0	0	0	0	12	0	0	0	0	0	0	0	0	0.02	0.01	0.01
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	0.05	11	9	0	8	53	32	22	48	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	34.2	63	9	28	39	3	0	0	0	0	0	0	0	0	0	0	0
8000075	08000075	MILLER 01	1124	1190	936	1034	1146	1210	944	1034	1202	984	1070	934	1090	1176	828	986	1092
1900417	01900417	MONROVIA 1	11	9	134	147	311	83	455	465	354	247	300	179	254	416	122	154	278
1900418	01900418	MONROVIA 2	14.8	3	50	52	227	104	255	82	178	540	522	512	575	0	471	150	188
1900419	01900419	MONROVIA 3	787	930	862	660	722	992	477	641	644	765	604	256	625	806	462	370	551
1900420	01900420	MONROVIA 4	738	983	440	412	846	1195	433	324	1034	1064	362	241	42.8	886	606	616	909
1940104	01940104	MONROVIA 5	300	833	439	147	216	451	155	56	246	193	77.6	103	193	629	85.7	232	114
8000171	8000171	MONROVIA 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000126	08000126	MONT PK FERN	272	397	310	298	275	430	422	398	479	446	363	168	329	465	453	391	134
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900453	01900453	MONT PK MW-1	52.5	206	48	115	201	238	174	139	4	0	0	0	0	0	0	9.24	359
1902818	01902818	MONT PK MW-10	0	518	767	600	752	782	676	732	783	799	704	630	612	759	787	682	715

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1901508	11901508	EPWC 09	462	439	315	456	558	426	370	467	536	371	399	430	550	359	306	401	508
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	349	250	41.9	261	314	348	66.5	238	292	136	64.6	273	258	103	84	181	221
1900826	01900826	GLENDORA 11E	381	192	20.5	257	327	168	42.2	241	313	106	0.12	281	412	158	103	299	369
1900827	01900827	GLENDORA 12G	619	858	866	1110	835	598	657	494	574	924	838	711	532	626	232	501	819
8000184	08000184	GLENDORA 13E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901523	01901523	GLENDORA 1E	225	203	51.9	188	214	201	109	199	101	0.32	125	143	192	106	96.1	154	159
1901526	01901526	GLENDORA 2E	254	221	68.1	207	220	206	9.83	91.5	257	154	91.6	250	250	147	128	181	199
1901525	01901525	GLENDORA 3G	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	526	518	279	126	567	434	167	493	456	474	421	487	445	326	464	425	470
1900831	01900831	GLENDORA 7G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	413	492	589	648	513	426	491	409	446	510	549	249	668	706	483	697	728
1900830	01900830	GLENDORA 9E	549	571	320	519	558	508	787	489	535	401	349	544	491	486	537	540	610
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	43.8	25	35.6	28.2	12.3	15.6	26.8	20.6	20.1	7.01	9.34	9.57	9.54	7.54	5.22	9.65	13.3
1902806	01902806	HMWC SOUTH	6.58	2.42	3.18	12.6	44.9	11.1	15.8	19.7	29.8	14	21.5	20.4	23.9	22.5	11.5	8.74	3.56
8000088	08000088	LACO BIG RED	48.2	71.8	37.4	61	53.6	21	53.9	41.7	18.5	135	78.9	126	4.6	1.73	0.79	8.98	0.01
8000089	08000089	LACO NEW LAKE	170	157	79.2	261	95.8	272	31	130	47.8	92.2	0	0	0	0	0	0	0
8000070	08000070	LACO SANTA FE 1	388	245	103	267	403	219	86	288	387	219	165	264	339	136	51.1	248	335
1902579	01902579	LACO WHITTIER 1	351	548	335	497	490	420	359	473	387	360	331	269	266	194	308	0	0
1902580	01902580	LACO WHITTIER 2	225	137	102	164	29	123	41.4	139	244	118	104	175	190	110	80.4	390	464
1902663	01902663	LACO WHITTIER 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	85	44.8	24.4	98.2	127	32.2	0	0	152	37.4	23.2	0	212	36.4	30.3	73.7	119
1902664	01902664	LACO WHITTIER 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902665	01902665	LACO WHITTIER 5	125	68.2	31.5	123	142	68.4	32.4	119	119	43.5	59.5	124	68.1	24.4	29.8	15.9	0
1902666	01902666	LACO WHITTIER 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	51.4	44.8	26.9	35.9	40.4	36.9	22.7	28.6	39.3	50.4	47	57	71.7	49.8	50.7	62.7	65.1
1901493	01901493	LIVINGSTON EL3	16.2	7.83	8.97	1	25.2	27.7	57.2	18.7	14.8	0.04	3.44	0.05	1.6	7.76	17.7	16.2	8.6
1903006	01903006	LIVINGSTON EL4	9.92	6.83	2.77	0.04	0	0	0	0	9.26	22.8	29.4	14.8	0.34	0.56	0.24	1.93	6.25
1901460	01901460	LPVCWD 2	0	0	0	0	0	0	0	0	0	0	0	0	124	235	338	249	321
1902859	01902859	LPVCWD 3	0	0	377	162	0	0	102	447	523	433	393	412	499	163	50.8	243	360
8000062	08000062	LPVCWD 4	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000075	08000075	MILLER 01	1136	1086	998	1210	836	1378	1046	1136	1178	968	1004	1192	1272	1036	1082	878	0
1900417	01900417	MONROVIA 1	139	139	179	296	105	140	160	242	118	262	57.5	0	0	0	0	0	0
1900418	01900418	MONROVIA 2	396	534	130	532	558	467	235	506	326	144	190	403	154	124	238	335	285
1900419	01900419	MONROVIA 3	894	442	188	339	350	87.6	196	158	198	244	152	90.9	19.4	191	203	824	398
1900420	01900420	MONROVIA 4	1119	485	102	243	346	123	140	213	1034	170	150	217	147	254	194	1019	568
1940104	01940104	MONROVIA 5	223	76.8	130	29.4	514	236	109	264	469	219	131	192	210	265	114	603	708
8000171	8000171	MONROVIA 6	553	511	332	1038	1075	937	676	868	867	995	803	729	278	1053	900	949	689
8000126	08000126	MONT PK FERN	400	27	51.6	273	397	268	267	224	290	126	299	292	301	52.7	6.72	0	0
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900453	01900453	MONT PK MW-1	357	257	301	328	326	194	280	221	240	207	211	250	300	193	0	0	0
1902818	01902818	MONT PK MW-10	754	664	305	501	716	579	619	689	677	607	654	684	381	62.9	68.1	60.6	28.8

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1901508	11901508	EPWC 09	345	309	348	510	340	265	421	541	383	346	414	546	442	370	491	520	393
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	115	60.1	65	200	43	2.95	83.2	141	20.7	1.58	0	0	0	0	0	0	0
1900826	01900826	GLENDORA 11E	191	116	357	279	64.2	2.2	142	269	52.9	3.02	92.7	352	174	215	294	289	227
1900827	01900827	GLENDORA 12G	806	766	642	350	694	816	1084	1072	1017	897	935	881	819	692	319	83.5	0
8000184	08000184	GLENDORA 13E	0	0	0	373	396	470	437	115	421	516	332	221	389	385	365	343	312
1901523	01901523	GLENDORA 1E	101	84.3	166	114	54.2	1.87	72.5	123	34.4	12	74.2	141	77.8	130	139	119	113
1901526	01901526	GLENDORA 2E	138	152	213	156	66	2.88	108	163	43.9	13.4	79.7	179	130	155	157	145	126
1901525	01901525	GLENDORA 3G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	420	309	416	761	482	10	684	901	631	651	708	830	698	425	760	582	456
1900831	01900831	GLENDORA 7G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	698	509	524	359	281	464	606	608	579	162	454	688	386	237	299	81	0
1900830	01900830	GLENDORA 9E	585	445	505	405	325	173	165	188	26.6	3.1	10.1	593	406	437	470	551	487
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	25.9	16.1	15.2	17	4.34	6.37	14.8	21	16.7	14.6	14.9	17.1	10	17.5	9.6	15.3	9.46
1902806	01902806	HMWC SOUTH	18.7	12.9	23.9	29.3	12.8	6.54	12.7	20.7	15.2	11.9	17.9	29.5	11	17.9	12.4	25.1	19
8000088	08000088	LACO BIG RED	0	3.62	0.58	0	0	0	0	0	0	0	0	0	0	0.09	0	0	0
8000089	08000089	LACO NEW LAKE	0	142	4.52	29.3	0	0	0	0	0	0	0	0	0	0	0	0	0
8000070	08000070	LACO SANTA FE 1	78.4	144	278	368	27.4	0.15	293	389	130	268	304	342	189	190	256	350	92.6
1902579	01902579	LACO WHITTIER 1	0	408	599	543	89.4	45.7	265	504	421	447	488	445	409	437	431	391	360
1902580	01902580	LACO WHITTIER 2	313	92.4	176	236	119	60.9	241	233	192	158	196	267	0	0	0	0	0
1902663	01902663	LACO WHITTIER 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	41.8	35.2	99.1	115	19.2	0	115	134	49.9	27.4	96.6	144	53.9	50.8	121	123	44.2
1902664	01902664	LACO WHITTIER 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902665	01902665	LACO WHITTIER 5	0	0	0	0	0	0	0	0	0	0	0	0	18.5	0.01	0.2	1.38	0.28
1902666	01902666	LACO WHITTIER 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	45.7	41	35.9	106	52.8	52.5	76.9	82.3	47.9	61.8	91	69.3	69.6	84.4	77	70.3	90
1901493	01901493	LIVINGSTON EL3	1.8	3.13	82	6.67	23.3	63.3	22.4	68.6	7.75	35.4	65.7	16.7	31.1	21.2	15.6	21.2	93.2
1903006	01903006	LIVINGSTON EL4	2.77	0	7.64	6.42	0.43	0.79	1.56	3.4	89.2	7.58	34.6	31.8	21	15.9	12.4	4.24	10.7
1901460	01901460	LPVCWD 2	327	85.1	10.5	467	339	387	559	648	487	423	56.6	0.13	158	489	488	492	498
1902859	01902859	LPVCWD 3	175	319	553	190	15.7	0.56	0	0	0	0	451	687	340	13.5	133	500	502
8000062	08000062	LPVCWD 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000209	8000209	LPVCWD 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000075	08000075	MILLER 01	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	28.6	7.42	174
1900417	01900417	MONROVIA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900418	01900418	MONROVIA 2	129	236	394	185	199	31	83	159	191	70.1	315	673	578	463	376	481	484
1900419	01900419	MONROVIA 3	98.7	178	333	422	243	239	357	443	324	269	301	429	325	190	426	282	257
1900420	01900420	MONROVIA 4	650	680	605	691	277	67.2	475	675	456	311	364	674	416	425	181	454	322
1940104	01940104	MONROVIA 5	689	180	770	936	350	248	648	813	444	277	562	855	525	527	774	901	637
8000171	8000171	MONROVIA 6	111	338	213	427	839	711	557	563	473	524	350	25.2	116	23	468	510	67.6
8000126	08000126	MONT PK FERN	0	0	0	0	0	2.15	0.43	0	0.58	0	0	0	0	0	0	0	0
8000196	8000196	MONT PK 15	0	0	0	0	0	0	0	0	0	0	0	172	517	500	417	744	527
1900453	01900453	MONT PK MW-1	0	0	0	160	206	263	131	206	119	90.3	155	153	148	30.4	137	124	79.5
1902818	01902818	MONT PK MW-10	0	0	0	32	13.6	446	631	545	494	284	429	636	507	476	562	504	291

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1901508	11901508	EPWC 09	320	419	486	317	289	363	445	354	292	437	472	315	298	389	344	151	322
8000217	8000217	EPWC 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900828	01900828	GLENDORA 10E	18	135	34.4	93.3	82.4	96.4	81.4	16.3	1.2	34.5	120	2.31	1.35	26.9	127	1.72	1.5
1900826	01900826	GLENDORA 11E	87.6	234	272	145	27.3	41.2	12.3	2.08	1.77	28.9	66.5	1.63	2.52	8.02	23.8	2.75	2.58
1900827	01900827	GLENDORA 12G	497	666	663	661	264	937	914	750	452	811	437	812	615	883	1170	710	553
8000184	08000184	GLENDORA 13E	307	289	280	247	273	249	235	230	234	233	263	254	222	265	379	233	268
1901523	01901523	GLENDORA 1E	103	89.6	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901526	01901526	GLENDORA 2E	104	26.7	88.4	136	124	142	147	141	124	137	110	0.03	0.03	86.1	214	120	90.7
1901525	01901525	GLENDORA 3G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	582	701	697	495	208	766	765	456	342	667	747	470	366	644	828	557	509
1900831	01900831	GLENDORA 7G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	229	480	527	430	90	512	638	512	326	575	719	428	353	570	719	447	366
1900830	01900830	GLENDORA 9E	312	613	669	159	95.4	362	708	524	354	556	711	509	376	579	744	458	407
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	7.35	7.93	4.96	11.5	13.8	10.1	11.9	3.37	0.11	0	1.69	2.13	4.02	9.98	9.53	8.01	10.8
1902806	01902806	HMWC SOUTH	12.9	19.2	15.5	20.6	16	15.3	24.4	16.6	15.6	14.2	26	19	7.98	17.4	19	14.5	13.9
8000088	08000088	LACO BIG RED	0	0	35.5	14.4	0	0	0	0	0	0	0	0	0	0	0	0	0
8000089	08000089	LACO NEW LAKE	0	0	349	266	126	394	129	0	0	0	0	0.01	0	0	0	0	0
8000070	08000070	LACO SANTA FE 1	0	519	368	183	189	152	33.6	11.4	3.09	32.6	32.8	8.61	0.12	39.8	26.7	13.3	18.5
1902579	01902579	LACO WHITTIER 1	353	364	380	142	174	251	249	154	130	23	0	0	0	0	0	2.51	0
1902580	01902580	LACO WHITTIER 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902663	01902663	LACO WHITTIER 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	25.9	98.2	124	37.8	25.9	64.8	0	0	0	0	0	0	0	0	0	0	0
1902664	01902664	LACO WHITTIER 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902665	01902665	LACO WHITTIER 5	3.97	0.35	125	69.1	40.8	92.3	0	0	0	0	0	0	0	0	0	0	0
1902666	01902666	LACO WHITTIER 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	53.6	61.3	85	40.6	36.3	25	53.2	41.2	45.1	61.9	106	32.8	49.8	56.2	95.7	52.4	58.8
1901493	01901493	LIVINGSTON EL3	82.3	20.3	19.7	10.4	10.4	50.9	13	4.13	15.4	7.56	15.6	1.3	1.14	0.14	1.46	0.18	0.32
1903006	01903006	LIVINGSTON EL4	5.26	3.39	1.71	0.21	0.1	0.17	0.59	0	0	0	0.04	0	0.01	0.01	0.01	0.02	0
1901460	01901460	LPVCWD 2	486	366	407	485	39.4	0.36	0.36	0.74	0.98	0.72	0.44	453	403	138	0.54	0.54	110
1902859	01902859	LPVCWD 3	491	517	509	499	228	1.33	1.67	1.76	2.47	1.84	4.96	467	459	154	1.21	1.44	146
8000062	08000062	LPVCWD 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000209	8000209	LPVCWD 5	0	0	0	0	689	935	918	896	872	913	954	12.6	0.53	606	961	936	597
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000075	08000075	MILLER 01	204	19.2	2.86	16.4	2.78	3.06	4.92	81.2	0	166	196	306	292	386	370	280	260
1900417	01900417	MONROVIA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900418	01900418	MONROVIA 2	434	578	589	218	28.2	10.7	436	350	352	425	407	93.9	321	553	591	183	159
1900419	01900419	MONROVIA 3	276	105	103	313	290	315	357	268	241	279	258	222	240	315	488	385	376
1900420	01900420	MONROVIA 4	162	408	503	279	78.8	255	459	362	261	388	469	310	240	281	406	130	91.9
1940104	01940104	MONROVIA 5	470	781	826	588	506	675	744	463	247	472	716	342	352	650	838	476	460
8000171	8000171	MONROVIA 6	100	267	455	413	544	709	289	195	162	232	395	541	90.2	60.2	30.1	455	469
8000126	08000126	MONT PK FERN	3.96	0.46	31.8	23.4	50.5	63.6	73.4	67.2	65.9	13.7	49.5	16.9	79.3	0	0	0	0
8000196	8000196	MONT PK 15	373	432	431	409	289	312	438	743	528	831	595	0	109	757	852	585	715
1900453	01900453	MONT PK MW-1	73.8	129	113	27.4	36.1	35.6	41.4	30.6	39.8	27.1	0.98	0	0	19.7	10.3	19.5	1.5
1902818	01902818	MONT PK MW-10	365	538	596	376	333	468	558	169	207	153	360	247	336	366	509	350	294

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1901508	11901508	EPWC 09	375	105	146	76.6	51	61.1	51.5	68.3	124
8000217	8000217	EPWC 11	0	434	220	236	316	398	343	275	296
1900828	01900828	GLENDORA 10E	37.8	173	0	0.41	185	229	119	120	117
1900826	01900826	GLENDORA 11E	6.22	294	111	2.56	158	290	124	154	244
1900827	01900827	GLENDORA 12G	799	929	395	349	706	599	467	403	222
8000184	08000184	GLENDORA 13E	322	366	253	212	336	313	269	286	293
1901523	01901523	GLENDORA 1E	0	0	0	0	0	0	0	0	0
1901526	01901526	GLENDORA 2E	163	214	147	113	196	189	150	106	188
1901525	01901525	GLENDORA 3G	0	0	0	0	0	0	0	0	0
1901524	01901524	GLENDORA 4E	0	0	0	0	0	0	0	0	0
8000149	08000149	GLENDORA 5E	687	810	563	516	760	748	642	619	552
1900831	01900831	GLENDORA 7G	0	0	0	0	0	0	0	0	0
1900829	01900829	GLENDORA 8E	531	486	426	408	516	421	378	335	165
1900830	01900830	GLENDORA 9E	563	621	433	408	636	632	513	501	498
8000085	08000085	HARTLEY	0	0	0	0	0	0	0	0	0
1901178	01901178	HMWC NORTH	2.71	14.5	7.48	6.79	9.34	11	15	6.86	7.48
1902806	01902806	HMWC SOUTH	10.7	22.7	12	10.2	15	16.1	5.92	10.9	14.7
8000088	08000088	LACO BIG RED	0	0	0	0	0	0	0	0	0
8000089	08000089	LACO NEW LAKE	0	0	0	0	0	0	0	0	0
8000070	08000070	LACO SANTA FE 1	23.6	305	156	116	299	371	76.1	168	393
1902579	01902579	LACO WHITTIER 1	0	0	0	0	0	0	0	0	0
1902580	01902580	LACO WHITTIER 2	0	0	0	0	0	0	0	0	0
1902663	01902663	LACO WHITTIER 3	0	0	0	0	0	0	0	0	0
8000150	08000150	LACO WHITTIER 3A	0	0	0	0	0	0	0	0	0
1902664	01902664	LACO WHITTIER 4	0	0	0	0	0	0	0	0	0
1902665	01902665	LACO WHITTIER 5	0	0	0	0	0	0	0	0	0
1902666	01902666	LACO WHITTIER 6	0	0	0	0	0	0	0	0	0
1901492	01901492	LIVINGSTON EL1	63.5	40.5	25.5	49.5	18.1	28.3	27.6	20	23.2
1901493	01901493	LIVINGSTON EL3	0	0.1	0.06	0	0	0	0	0	0
1903006	01903006	LIVINGSTON EL4	0	0.03	0	0	0	0	0	0	0.01
1901460	01901460	LPVCWD 2	273	1.12	1.01	5.13	17.6	16.3	15.4	12.6	134
1902859	01902859	LPVCWD 3	406	1.79	1.97	6.67	22.5	21.2	23.8	148	195
8000062	08000062	LPVCWD 4	0	0	0	0	0	0	0	0	0
8000209	8000209	LPVCWD 5	117	925	865	850	793	890	874	585	517
8000109	08000109	MAPLE 01	0	0	0	0	0	0	0	0	0
1900042	01900042	MAPLE W2	0	0	0	0	0	0	0	0	0
8000075	08000075	MILLER 01	330	226	210	206	182	192	192	150	160
1900417	01900417	MONROVIA 1	0	0	0	0	0	0	0	0	0
1900418	01900418	MONROVIA 2	545	640	555	542	546	501	240	95.3	38.8
1900419	01900419	MONROVIA 3	409	452	243	0	494	594	563	453	544
1900420	01900420	MONROVIA 4	263	549	342	275	268	483	381	418	515
1940104	01940104	MONROVIA 5	657	838	578	629	744	817	651	534	648
8000171	8000171	MONROVIA 6	24.7	4.96	5.37	1.6	22.8	51	27.2	71.8	345
8000126	08000126	MONT PK FERN	0	9.24	35.2	11.9	55.5	160	37.8	37.3	167
8000196	8000196	MONT PK 15	559	608	751	711	733	643	807	588	492
1900453	01900453	MONT PK MW-1	39.1	101	20.1	1.26	24.8	55.8	14.2	21	59.6
1902818	01902818	MONT PK MW-10	443	561	340	219	376	514	321	286	451

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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1903033	01903033	MONT PK MW-12	633	416	339	429	622	266	329	553	655	432	271	505	631	203	0	491	702
1903092	01903092	MONT PK MW-14	0.64	0	2.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900454	01900454	MONT PK MW-2	125	105	132	126	162	58.4	71.1	81.5	124	77.8	50.4	116	179	87.9	76.6	113	172
1900455	01900455	MONT PK MW-3	41.2	25.3	28.6	38.1	38.5	28.6	33	30	44	37.7	31	35.1	61.7	33	31.1	31.4	48.9
1900456	01900456	MONT PK MW-4	50.2	24.2	26.5	50.6	68.8	28.5	20.6	41.1	64.3	26.2	14.4	25.1	46.7	20.6	15.2	25.8	61.9
1900457	01900457	MONT PK MW-5	582	521	376	233	247	687	691	665	662	652	647	648	637	668	664	680	670
1900458	01900458	MONT PK MW-6	120	165	119	208	204	216	197	171	150	153	170	116	141	152	144	125	95.3
1902372	01902372	MONT PK MW-7	130	39.5	60.9	99.8	99.7	103	57.7	95.8	98.3	31.3	31.5	35.3	53.3	45.9	74.1	36.1	15.7
1902373	01902373	MONT PK MW-8	326	266	190	271	387	173	241	348	452	387	399	499	409	334	351	474	479
1902690	01902690	MONT PK MW-9	511	286	219	379	484	221	354	415	502	300	285	491	666	594	537	636	672
1902241	01902241	OWL ROCK PRODUCTS	11.8	9.87	9.08	10	11.7	12.3	12.7	12.5	8.18	5.42	5.33	5.96	4.82	3.81	2.21	4.1	3.15
Z1000068	Z1000068	PICO RIVERA GOLF 1	38.2	19.1	4.43	22.5	36	9.87	16.3	38.2	42.3	11.4	7.05	17.4	54	15.8	6.66	31.2	42.1
1902169	01902169	POLOPOLUS 01	6.69	0	0	0	0	0	3.86	6.4	11.6	0	0	2.04	3.81	0.36	0	1.31	2.76
8000138	08000138	QVH 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900120	01900120	RHMWC NORTH 1	85.4	43.7	25.8	2.4	28.2	22.5	28.1	40.6	44.7	27.7	26	39	54.6	9.52	25.8	44.2	28.7
1900121	01900121	RHMWC SOUTH 2	0.43	0.14	6.12	28.4	34.4	17	23.4	49.6	67.7	22.2	21.4	43.7	53	40.2	16.3	38.2	61.3
1902790	01902790	RINCON DITCH 04	40.1	10.9	9.09	8.92	28.7	2.83	8.47	143	22.7	46.9	15.9	122	206	47	19.1	36.7	39.6
1901521	01901521	RMWC 1 SOUTH - DESTROYED	19.3	4.94	8.47	31.9	21.3	3.32	13.7	25	33.2	9.24	10.2	23.4	35.7	11.3	18.8	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	35.2	24.1	17.5	8.54	32	6.47	6.47	12.1	24.6	23.8	24.3	20.9	1.53	0	0	0	0
1900094	01900094	ROSE HILLS 1	213	90.2	43	169	292	96.4	128	275	246	110	71.3	211	277	103	63.7	224	246
1900052	01900052	ROSE HILLS 3	140	33.7	12.2	85.1	167	15.8	65	46.9	198	0.58	5.62	43.3	0.72	0	0.06	116	198
8000060	08000060	SA1-3 (LANTE)	0.04	14.9	0	0.03	5.7	0	0	2.39	0	2.69	2.13	24	391	145	107	408	315
8000046	08000046	SCE 110RH (NORTH)	0.24	0.08	0.03	0.04	0.26	0.06	0.39	0.23	0.09	0.6	0.01	0	0.02	0.03	0.01	0.03	0.04
1900343	01900343	SCE 2EB76	0.77	0.05	0	0.41	0.39	0	0.18	0.18	0.5	0	0	0	0	0	0.06	0.6	0
8000047	08000047	SCE MURATA	24	29.7	21.2	71.7	29.1	20.2	43.5	78.9	26.2	35.2	21.8	51.6	13.7	43.2	45.1	19.9	0.95
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	124	87.4	8.93	35.8	55.1	14.6	42.4	67.5	120	26.3	1.42	12.6	95.9	2.15	12	6.66	0.97
1902268	01902268	SCWC COLUMBIA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902270	01902270	SCWC COLUMBIA 6	67.6	7.2	48.3	86.1	51.5	47.9	16.4	111	86.6	18.7	0	60.3	53	35.4	0.01	9.32	68.3
1902271	01902271	SCWC COLUMBIA 7	136	4.17	0	5.14	131	38.3	151	102	89.4	42.8	0	1.76	97.8	32	78.3	97.2	47.8
1902272	01902272	SCWC COLUMBIA 8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	70.8	74.4	96.2	111	111	116	112	106	119	138	132	121	126	133	86.8	111	136
8000073	08000073	SCWC ENCINATAS 3	133	18.6	1.89	21.7	76.3	1.39	30.2	102	166	72.2	67.8	137	136	40.2	7.04	87.3	147
1902024	01902024	SCWC ENCINITAS 1	153	0.17	21.9	47.5	240	199	114	116	207	156	113	0	71.1	133	189	174	173
1902035	01902035	SCWC ENCINITAS 2	121	239	210	209	87.9	71.6	147	190	78.6	43	74.8	242	186	131	104	129	122
1902034	01902034	SCWC FARNA 1	226	162	170	194	177	78.2	119	256	174	78	102	228	197	111	77.4	138	222
1902948	01902948	SCWC FARNA 2	138	11.1	3.71	27.1	60.3	1.08	3.44	81	224	124	72.4	179	243	99.1	52.4	216	240
1900513	01900513	SCWC GARVEY 1	32.1	0.39	0.15	3.89	30	0.03	0.11	18.6	41.3	2.14	13.8	19.7	0	2.4	0.38	3.74	0.12
1900512	01900512	SCWC GARVEY 2	61.9	0.92	0.47	12.2	79.9	0.05	0.03	46.6	73.7	4.25	42.4	40.6	1.99	0.11	0.07	0.08	0.33
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0.01	0.13	0.42	0.17	0.1	0.13	0.18	0.15	0.08	0.05	0.07	0.01	0.03
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0.01	0.32	0.96	0.38	0.25	0.33	0.47	0.25	0.15	0.11	0.17	0.03	0.08
1902030	01902030	SCWC GRAYDON 1	132	30.9	2.25	65.3	181	58.9	213	99.3	133	23.5	1.11	115	137	34.2	17.4	116	159
1902461	01902461	SCWC GRAYDON 2	183	150	139	158	192	200	62.1	240	234	163	161	198	224	194	175	213	220
1902017	01902017	SCWC JEFFERIES 1	0	0	0.13	0.2	0.26	0.69	0.77	0.4	0.47	0.25	0.33	0.19	0.23	0.39	0.11	0.11	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0.06	0	0.15	0.08	0	0	0.06	0.13	0.06	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0.24	2.19	0.81	0.36	0.52	1.52	0.37	0.15	11.4	0.3	0	0.35
8000111	08000111	SCWC JEFFERIES 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Baldwin Park Operable Unit
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Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1903033	01903033	MONT PK MW-12	505	515	701	614	366	351	624	721	456	507	664	735	669	579	636	751	622
1903092	01903092	MONT PK MW-14	0	0	22.5	79.2	11.7	10.1	13.1	27.9	6.38	5.46	18.2	58.6	23.8	16.3	30.2	63.2	22.6
1900454	01900454	MONT PK MW-2	72.9	88.3	112	139	81.8	80.6	127	116	84.3	80.3	129	124	76.8	75.5	103	42.5	30.8
1900455	01900455	MONT PK MW-3	30.7	29.6	12.2	0	0	0	11.1	96.9	63.8	24.6	69.1	142	23.9	66.7	74.4	87.5	55.4
1900456	01900456	MONT PK MW-4	15.6	11	48.2	55.2	20	1.01	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	656	621	657	640	660	641	641	633	628	627	612	512	594	358	174	630	623
1900458	01900458	MONT PK MW-6	119	11.6	12.2	150	192	192	118	164	94.3	122	177	144	72.3	0.49	104	90	33.4
1902372	01902372	MONT PK MW-7	24.5	30.7	17.4	19.5	16.3	19.1	26.5	22.4	36.9	35.3	77	30.7	47.8	86.1	75.3	123	57.5
1902373	01902373	MONT PK MW-8	419	317	496	454	366	409	456	434	397	318	414	448	398	331	436	446	366
1902690	01902690	MONT PK MW-9	472	395	631	665	573	569	633	648	624	471	596	662	575	501	611	644	603
1902241	01902241	OWL ROCK PRODUCTS	3.48	4.38	5.81	4.36	1.85	0.31	4.1	4	6	6	44.2	8.09	8	8	8	8	8
Z1000068	Z1000068	PICO RIVERA GOLF 1	15.1	8.87	34	40.3	10.6	13.5	31.5	42.7	16	7.19	36.9	40.5	24.3	4.27	24.3	50.7	21.4
1902169	01902169	POLOPOLUS 01	0.48	0.45	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900120	01900120	RHMWC NORTH 1	30.3	25.1	31.6	38.9	25.1	22.5	39.3	0.96	25.9	13.7	5.08	29.7	22.1	17.8	26.2	43.5	28.4
1900121	01900121	RHMWC SOUTH 2	16.3	16.2	45.5	52.3	17.8	23	31.5	85.3	23	23.3	65.2	55.5	27.4	20.6	31	32.2	19.9
1902790	01902790	RINCON DITCH 04	8.64	31.3	241	278	51.1	27.8	214	242	50.5	18.1	251	233	28	58.9	234	306	180
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35.8	23.5	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.41	2.34	0
1900094	01900094	ROSE HILLS 1	110	62.2	111	250	91.1	128	188	142	124	39.9	120	149	141	101	210	259	133
1900052	01900052	ROSE HILLS 3	73.4	41.8	5.81	5.62	24.2	62	17.3	70.1	63.3	43.5	31.1	81.5	122	19.4	17.9	26.7	6.68
8000060	08000060	SA1-3 (LANTE)	300	25.5	18.7	3.88	6.81	1.86	61.4	99.1	6.25	2.57	16.6	281	434	387	344	391	386
8000046	08000046	SCE 110RH (NORTH)	0.01	0.01	0.02	0.03	0.01	0.01	0	0	3.76	22.1	0	0.6	0.16	0.08	0.12	0.16	0.23
1900343	01900343	SCE 2EB76	0.38	0.33	0.46	0.57	0	0.12	0.79	0.71	0.02	0.25	0.84	0.57	0.23	0.33	0.39	0.51	0.43
8000047	08000047	SCE MURATA	40.1	39.2	49.6	1	50.6	58.3	62.2	21.2	44.3	58.5	67.1	0.01	0.12	0.35	0.07	0.01	1.07
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	1.55	0.09	0.18	0.19	0.76	0.23	0.43	1.79	1.1	0.48	0.03	0.46	0.71	0.45	0.31	0.34	0.28
1902268	01902268	SCWC COLUMBIA 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902270	01902270	SCWC COLUMBIA 6	59.7	30.1	0	0	0	221	165	204	155	163	179	188	193	178	171	182	176
1902271	01902271	SCWC COLUMBIA 7	0	24.8	0	50.5	42.5	22.4	0	51.9	47.9	26.4	45.2	65.5	95	76	87.1	127	108
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	100	85.7	98.1	96.9	101	95	122	114	92.3	95.9	107	117	76.4	1.85	35.5	109	108
8000073	08000073	SCWC ENCINATAS 3	8.74	12.4	143	149	50.1	81.5	124	178	50	27.2	55.5	104	16.7	4.28	19.5	105	40
1902024	01902024	SCWC ENCINITAS 1	113	68	239	66.9	103	41.3	60.8	40	53.5	24.9	39	7.56	13.7	8.89	26.9	42.7	23.8
1902035	01902035	SCWC ENCINITAS 2	167	191	51.5	230	183	236	224	233	212	208	238	217	264	263	270	262	255
1902034	01902034	SCWC FARNA 1	142	159	158	192	98.9	4.22	174	168	52.4	106	128	189	128	121	101	186	114
1902948	01902948	SCWC FARNA 2	129	77.8	234	286	119	175	183	223	162	11.2	230	274	158	105	207	219	147
1900513	01900513	SCWC GARVEY 1	0.37	0	25.5	35.6	0.01	0	0	0	0.12	0.17	9.4	61.3	46.7	18	30.8	41.4	32.4
1900512	01900512	SCWC GARVEY 2	0.41	0	35.5	40	0.01	0	0	0	0.26	0	14.8	72.9	68.5	25.2	41.7	50.9	41.9
1902032	01902032	SCWC GIDLEY 1	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	29.4	9.66	55.7	0.09	0	0.03	0.4	0.65	0.37	0.58	0.06	0.77	1.03	0.94	1.19	1.12	1.17
1902461	01902461	SCWC GRAYDON 2	176	160	206	237	118	136	192	216	138	100	109	0.46	1.29	1.01	1.33	1.15	1.19
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	32.8	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	0	0	0	0	0	0	0	0	0	0	171	443	345	235	337	424	364

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1903033	01903033	MONT PK MW-12	503	606	676	567	503	614	735	505	668	702	614	569	362	306	366	417	335
1903092	01903092	MONT PK MW-14	7.95	16.6	35	10.8	0	50.7	38.7	3.41	5.4	19	18.9	12.2	4.88	17.2	38.4	1.69	0
1900454	01900454	MONT PK MW-2	27.4	25.3	36.5	15.8	14.7	63.7	34	0.89	0	6.14	77.2	72.4	114	109	5.09	91.1	43.8
1900455	01900455	MONT PK MW-3	57.9	73.5	54	0	0	83.7	84.5	121	97.1	140	85.2	98.2	78.8	126	160	9.36	0
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	314	283	390	365	441	511	533	488	179	164	485	25.1	54.8	218	486	115	447
1900458	01900458	MONT PK MW-6	9.94	37	78.3	94.5	4.24	0	0	0.86	74.4	134	148	2.33	1.84	56.2	91.9	14.7	5.83
1902372	01902372	MONT PK MW-7	53.6	69.8	50.3	64	49.3	117	91.9	109	122	91.9	95.1	111	123	208	289	131	99.9
1902373	01902373	MONT PK MW-8	334	332	362	391	307	293	337	299	375	428	311	358	302	378	347	288	243
1902690	01902690	MONT PK MW-9	498	535	613	551	473	510	471	521	327	577	498	562	498	491	588	532	432
1902241	01902241	OWL ROCK PRODUCTS	8	8	12.1	12.1	12.1	15.5	28.1	3.99	28.2	0	10.9	8.55	6.66	8.44	8.79	5.93	3.53
Z1000068	Z1000068	PICO RIVERA GOLF 1	4.21	22.5	30.2	19.4	3.04	13.2	33.9	15.1	4.71	25.4	32.1	19.3	10.6	21	39.9	10.9	4.49
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	0	0	0	0	0	0	10.5	5.02	1.61	7.84	14.6	3.56	4	5.13	7.43	4.63	1.27
1900120	01900120	RHMWC NORTH 1	14.2	27.8	34.7	9.89	4.63	20.9	19.3	16.5	13.2	25.1	34.9	21.1	14.6	30	38.5	18.5	18
1900121	01900121	RHMWC SOUTH 2	17.2	15.4	26	34.5	23.9	31.1	52.3	22.7	16.7	31.1	34.1	21.5	19.7	25.8	35.9	22.8	12.5
1902790	01902790	RINCON DITCH 04	13	111	282	116	4.49	101	291	54.5	3.93	137	298	125	12.3	64.3	142	36.8	9.67
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	15.6	33.2	37.8	20.3	17.7	32.5	57.4	26.7	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	14.8	20.4	0.01	31.8	2.2	25.4	15.5	2.07	31.6	0	0	0	0
1900094	01900094	ROSE HILLS 1	9.86	64.7	206	118	43.9	55.5	114	92.6	23.4	140	46.6	12.4	48.9	134	251	80	13.1
1900052	01900052	ROSE HILLS 3	22	115	22.8	58.3	26.3	118	33.9	62.4	22.6	170	25.5	18.8	71.4	171	230	113	14.2
8000060	08000060	SA1-3 (LANTE)	272	358	372	203	190	284	332	215	386	226	334	232	71	7.36	29.4	1.7	0.77
8000046	08000046	SCE 110RH (NORTH)	0.05	0.19	0.01	0.31	0.04	0.4	0.5	0.18	0.25	0.19	0.49	0.63	0	0	0.09	0.1	0.08
1900343	01900343	SCE 2EB76	0.29	0.86	3.57	3.43	1.12	6.97	10	1.58	0.52	6.49	9.12	1.69	1.75	5.27	7.36	1.26	1.65
8000047	08000047	SCE MURATA	0.9	1.07	0.2	1.24	13.9	66.8	13.9	44.8	38.3	46.1	0.25	0	0.65	0.07	0	0	0
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	0	0.24	0.04	0.02	0.28	0.64	0.44	0.19	0	0.1	0.29	0.09	0.08	0.02	0.23	0	0.58
1902268	01902268	SCWC COLUMBIA 4	0	0	54.7	135	93.4	139	120	121	25.7	182	194	164	148	170	92.7	147	73.7
1902270	01902270	SCWC COLUMBIA 6	154	164	162	143	117	141	143	139	152	158	158	170	158	155	147	152	141
1902271	01902271	SCWC COLUMBIA 7	63.1	168	169	92.1	26.8	143	156	88.8	74.2	0	143	52.8	47.1	111	148	117	39.2
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	89.5	104	103	109	108	111	112	117	118	116	112	117	121	119	113	121	108
8000073	08000073	SCWC ENCINATAS 3	3.61	3.17	6.22	3.88	4.69	37.7	9.59	37.6	56.2	237	4.18	1.48	0.98	2.7	12.8	3.68	3.81
1902024	01902024	SCWC ENCINITAS 1	15.1	6.35	8.76	4.36	3.64	1.38	3.05	3.53	0.29	17.2	10	7.88	4.5	5.73	4.87	3.09	6.83
1902035	01902035	SCWC ENCINITAS 2	209	220	264	233	199	190	265	191	85.4	14.3	304	256	217	248	324	216	160
1902034	01902034	SCWC FARNA 1	78.6	81.4	58.1	67.2	8.36	28.6	69	17.9	25.8	31.3	54.5	2.05	8.31	67.4	79.2	17.3	8.18
1902948	01902948	SCWC FARNA 2	60.2	114	235	109	75.8	137	208	82.5	48	148	216	85.8	34.8	114	276	150	59.8
1900513	01900513	SCWC GARVEY 1	16.1	13	21	1.28	0	0	0.24	0.06	1.88	26.5	37	12.5	0.03	38.8	53.3	27.8	2.63
1900512	01900512	SCWC GARVEY 2	24.5	22.4	27.2	5.67	0.05	0	0.08	0.23	3.64	46.2	35.2	11.9	0.03	36.8	68.6	42.2	4.48
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0.94	0	0	0.57	0	2.13	0.05	0	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0.35	1.99	0.86	0.18	0.62	2.73	2.49	0.06	0.43	0.25	1.07	0.99	0.48	0.21	0.72	0.16	0.29
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0.89	0	0	0	0	0	0.37	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0	0	0.68	0.21	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	291	337	374	346	279	468	525	443	394	519	562	497	426	457	520	449	407

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1903033	01903033	MONT PK MW-12	558	250	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903092	01903092	MONT PK MW-14	5.52	6	3	6	29	28	3	21	57	78.6	17.4	9.38	8.02	80.3	32.2	18	0
1900454	01900454	MONT PK MW-2	89.2	35	4	42	66	83	73	3	13	4.76	0	0	0	0	0	0	0
1900455	01900455	MONT PK MW-3	0	107	125	2	0	73	62	16	22	6.17	0	0	0	0	0	0	0
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	631	643	443	263	470	513	0	0	0	383	334	323	324	489	0	0	0
1900458	01900458	MONT PK MW-6	16.7	40	7	39	65	29	22	15	105	92.8	3.71	112	101	183	98.3	127	114
1902372	01902372	MONT PK MW-7	32.2	93	137	166	170	192	219	168	348	310	253	184	164	47.1	0	0	0
1902373	01902373	MONT PK MW-8	375	314	169	139	295	332	358	337	572	554	297	238	310	541	567	441	587
1902690	01902690	MONT PK MW-9	531	550	522	453	527	560	497	426	620	618	514	427	577	670	649	629	633
1902241	01902241	OWL ROCK PRODUCTS	8.74	8	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000068	Z1000068	PICO RIVERA GOLF 1	21.1	44.3	13.7	3.11	30.3	40.7	17.5	14.3	33.2	0	0	0	0	0	0	0	0
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	6.02	11	5	4	8	8	5	3	9	12	3.83	1.73	3.62	8.66	3.06	2.14	3.52
1900120	01900120	RHMWC NORTH 1	24.7	37	22	32	29	38	12	18	36	28	26.7	17.3	26.4	55.3	35	16	32.8
1900121	01900121	RHMWC SOUTH 2	23.9	46	26	4	38	39	31	22	34	52.6	18.9	17.3	7.77	25.9	15.5	28	23.9
1902790	01902790	RINCON DITCH 04	203	337	150	52	108	198	35	21	180	347	135	41.7	128	263	159	68.3	165
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900094	01900094	ROSE HILLS 1	30	43	4	0	144	180	65	50	171	52.3	4.02	1.16	4.48	66	11.1	2.84	45.9
1900052	01900052	ROSE HILLS 3	31.1	43	6	1	206	210	110	96	238	136	14	0.05	6.75	47.9	9.55	2.53	20.2
8000060	08000060	SA1-3 (LANTE)	0.92	0	0	0	0	0	0	0	3	25.8	11.2	4.32	0.19	0	0	0.06	0
8000046	08000046	SCE 110RH (NORTH)	0.2	0	0	0	0	0	0	0	0	2.74	2.75	3.97	1.63	1.68	2.25	2.85	2.83
1900343	01900343	SCE 2EB76	2.84	6	2	1	4	4	2	2	2	2.25	0.75	0.88	0.83	1.64	2.72	0.77	0.68
8000047	08000047	SCE MURATA	0	23	41	37	71	24	42	44	78	30.1	33	17.8	71.4	51	34.3	24.2	55
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	0.53	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902268	01902268	SCWC COLUMBIA 4	94.3	185	145	88	214	201	137	77	113	27	144	206	200	143	136	125	64.6
1902270	01902270	SCWC COLUMBIA 6	172	154	162	155	140	127	130	142	64	14.9	158	162	161	158	131	121	145
1902271	01902271	SCWC COLUMBIA 7	120	135	169	34	122	153	24	21	119	129	16.9	1.64	18.5	132	56.9	20.6	74.1
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	113	113	109	101	96	99	125	137	135	134	162	163	119	178	180	159	142
8000073	08000073	SCWC ENCINATAS 3	17.2	78	44	3	50	138	86	18	99	121	286	326	59.8	4.36	31.2	0.36	15.2
1902024	01902024	SCWC ENCINITAS 1	0.48	9	0	0	0	0	1	79	274	396	80.5	0.72	263	345	311	298	317
1902035	01902035	SCWC ENCINITAS 2	221	266	207	200	230	266	224	155	16	0.18	0.01	0.09	0.58	39	2.07	1.74	0.21
1902034	01902034	SCWC FARNA 1	2.13	82	7	1	40	77	1	12	18	96.3	12.4	0.17	18.8	169	39.7	47.4	111
1902948	01902948	SCWC FARNA 2	186	329	312	257	329	334	227	186	204	132	98.7	110	72.5	65.1	0	0	0
1900513	01900513	SCWC GARVEY 1	18	44	10	1	7	73	59	73	71	69.6	70.8	31.7	49.3	24.1	0	0.1	0.07
1900512	01900512	SCWC GARVEY 2	31.4	29	6	2	8	79	69	94	95	89.2	86.1	7.37	25.7	37	0.01	0.15	0.08
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	464	518	362	296	465	533	366	212	331	505	316	176	405	557	398	312	364

Notes:
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APPENDIX B
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Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1903033	01903033	MONT PK MW-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69.1
1903092	01903092	MONT PK MW-14	62	224	209	119	18.4	0.06	0	0	0	0	28.6	258	273	4.11	0	0	0
1900454	01900454	MONT PK MW-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900455	01900455	MONT PK MW-3	0	0	119	65.4	308	205	244	126	200	156	154	56.1	33.5	0.12	0	0	0
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	60.4	446	414	315	748	200	378	670	595	630	84.3	0	0	0.4	0	0	58.8
1900458	01900458	MONT PK MW-6	118	0	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902372	01902372	MONT PK MW-7	272	0	0	0	0	186	181	277	349	274	163	144	150	227	231	252	203
1902373	01902373	MONT PK MW-8	629	560	517	599	656	546	58.6	0	0	150	663	741	706	622	665	722	652
1902690	01902690	MONT PK MW-9	675	561	369	574	0	293	64.3	349	567	163	1.35	357	661	662	644	617	592
1902241	01902241	OWL ROCK PRODUCTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000068	Z1000068	PICO RIVERA GOLF 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	5.61	3.58	4.4	6.69	11.4	6.32	2.59	7.63	7.45	2.82	3.49	7.02	7.83	4.27	3.53	7.61	6.82
1900120	01900120	RHMWC NORTH 1	35.8	28.9	16.5	40	0	0	84.3	20.9	42.9	0.06	29.3	41.5	54.8	20.5	19.7	23.2	33.4
1900121	01900121	RHMWC SOUTH 2	51.9	30.7	22.9	28.4	0	74.2	20.8	10.7	71.6	30.6	14.9	25.1	29.6	24.4	18.8	31.4	49.2
1902790	01902790	RINCON DITCH 04	276	178	78.6	231	220	82.3	22.7	154	223	46.7	80	174	225	51.3	2.59	26.5	75.4
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900094	01900094	ROSE HILLS 1	254	120	43.9	172	224	80.9	35.6	155	215	70.8	86.3	134	180	53.4	0.32	11	169
1900052	01900052	ROSE HILLS 3	71.9	11.3	1.56	16.3	45.9	3.44	1.33	23.5	40.7	2.19	2.22	10.3	23.5	15.8	36.4	41.1	126
8000060	08000060	SA1-3 (LANTE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000046	08000046	SCE 110RH (NORTH)	2.46	0.31	2.66	2.9	0	0.97	2.3	3.71	3.53	3.52	3.1	3.39	3.64	2.98	0.04	0.12	0.32
1900343	01900343	SCE 2EB76	1.67	2.72	0.28	0.74	0.74	2.16	0.27	1.23	1.57	2.09	2.09	1.13	14.5	3.25	4.6	6.15	11.5
8000047	08000047	SCE MURATA	23.7	0.19	7.57	49	36	28.9	15.9	59.6	45.5	11.5	25.3	64.6	27.4	24.5	21.1	45.7	32.8
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902268	01902268	SCWC COLUMBIA 4	92.8	90.9	80.4	76.5	0	113	145	128	105	88.6	74	22.3	136	163	54.3	0	0
1902270	01902270	SCWC COLUMBIA 6	140	138	130	128	140	99.9	160	152	147	136	129	2.39	22.9	0	0.04	0	0
1902271	01902271	SCWC COLUMBIA 7	106	103	25.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	156	145	118	130	39.9	113	114	142	154	113	94.7	111	146	105	96.8	117	160
8000073	08000073	SCWC ENCINATAS 3	61	68	26.1	50	48.3	243	219	0.07	105	137	10.8	181	182	96.7	51.7	76.9	207
1902024	01902024	SCWC ENCINITAS 1	358	323	187	301	351	69.8	72.1	300	204	159	293	213	161	0.01	0.13	0.35	0.2
1902035	01902035	SCWC ENCINITAS 2	0.12	0.31	1.59	0.69	0.32	0.24	0.16	0	0	0.22	0	0	106	211	213	205	186
1902034	01902034	SCWC FARNA 1	127	81.4	26.3	52.8	0.15	10.8	30.7	51.2	211	68	0.08	0.01	14.5	0.11	0.59	28.9	85.5
1902948	01902948	SCWC FARNA 2	285	264	253	224	254	175	56.7	211	189	178	298	317	315	244	211	137	235
1900513	01900513	SCWC GARVEY 1	19.3	20.6	38.6	78.2	88.9	82.4	80.8	79.5	81.3	50.3	30.4	51.8	91.2	93.1	91.9	96.1	96.4
1900512	01900512	SCWC GARVEY 2	24.4	28.1	46	95.8	99.1	94.9	93.3	92.3	92.3	57.3	34.8	58.4	109	110	107	113	48.5
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	398	271	125	324	326	299	330	403	419	291	194	299	393	302	293	334	413

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1903033	01903033	MONT PK MW-12	30.5	435	247	0	29.6	7.03	155	781	465	604	518	470	885	903	873	844	861
1903092	01903092	MONT PK MW-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900454	01900454	MONT PK MW-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900455	01900455	MONT PK MW-3	0	0	0	0	0	0	139	181	111	61.7	159	200	38.8	50.3	88.2	157	74.3
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	38.6	0	0	0	0	0	0	151	495	202	362	493	158	249	429	435	445
1900458	01900458	MONT PK MW-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902372	01902372	MONT PK MW-7	182	77.4	0	185	268	255	228	166	170	124	113	219	149	104	121	146	30.7
1902373	01902373	MONT PK MW-8	669	586	675	660	468	327	519	299	410	333	440	0	0	0	0	0	0
1902690	01902690	MONT PK MW-9	674	542	576	652	631	639	648	619	344	495	465	228	0	0	1.2	0.83	2.55
1902241	01902241	OWL ROCK PRODUCTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000068	Z1000068	PICO RIVERA GOLF 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	2.42	2.59	5.55	8.56	2.46	1.37	7.89	6.05	4.12	2.61	6.54	9.36	2.08	2.01	6.34	7.72	2.44
1900120	01900120	RHMWC NORTH 1	25.7	20	30	50.4	20.2	15.1	29.5	36	22.7	17	19	36.8	32.5	18.7	30.7	47.4	26.2
1900121	01900121	RHMWC SOUTH 2	21.6	22.1	36.7	35.3	20.8	16.8	28.3	44.2	23	19.8	30.7	50.4	24	19	33.8	30.6	21
1902790	01902790	RINCON DITCH 04	19.9	14.2	79.5	145	45.1	5.82	143	213	61.3	32.8	131	102	4.97	2.05	3.57	3.52	0.05
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900094	01900094	ROSE HILLS 1	58.7	46.3	168	244	46.7	14.6	129	213	94.7	57.1	159	254	160	135	123	241	87.6
1900052	01900052	ROSE HILLS 3	51.2	58.4	91.5	114	3.26	1.04	17.7	51.3	19	0	0	0	0	0	0	0	0
8000060	08000060	SA1-3 (LANTE)	0	0	0	0	0.8	318	17.7	40.1	87.2	100	1.4	0.36	0	117	495	267	496
8000046	08000046	SCE 110RH (NORTH)	0.29	0.07	2.75	0.12	0.01	0.01	0.29	0.14	0.11	0.03	0.02	0.36	0.19	0.11	0.2	0.19	0.11
1900343	01900343	SCE 2EB76	0	4.73	9	9.94	4.25	2.82	10.8	12.7	5.84	3.01	3.5	11.2	7.08	2.06	3.26	1.09	0.36
8000047	08000047	SCE MURATA	31.4	26.5	46.1	34.3	20.8	12.5	43.9	37.1	22.4	15.6	19.6	30.5	35.9	40.5	43.9	36.6	24
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902020	01902020	SCWC AZUSA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902268	01902268	SCWC COLUMBIA 4	0	0	2.85	1.35	1.54	1.39	11.1	73.2	140	175	172	168	159	110	128	153	151
1902270	01902270	SCWC COLUMBIA 6	0	0.16	0.1	0	0.82	0.13	4.78	46.4	41.5	0.02	0	83.4	144	236	102	0.01	6.66
1902271	01902271	SCWC COLUMBIA 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	15.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000073	08000073	SCWC ENCINATAS 3	56.1	67.4	145	160	113	8.72	78.9	57.1	22.6	77.9	92.2	175	150	87.5	140	240	125
1902024	01902024	SCWC ENCINITAS 1	0.06	0.01	0	0	0.08	0	0	0	0	0	0	0	0	0	0	0	0
1902035	01902035	SCWC ENCINITAS 2	195	182	171	157	63.8	156	169	168	184	128	134	195	186	178	160	171	155
1902034	01902034	SCWC FARNA 1	5.65	0.55	96.2	153	9.49	2.85	35.9	24	25.1	0	13.9	6.37	2.9	13.4	0.1	0	5.25
1902948	01902948	SCWC FARNA 2	129	190	253	244	197	109	88.3	291	185	164	172	224	151	132	241	201	124
1900513	01900513	SCWC GARVEY 1	45.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900512	01900512	SCWC GARVEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	407	381	243	430	387	389	555	641	521	340	539	581	514	431	465	506	397

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1903033	01903033	MONT PK MW-12	777	825	803	855	817	827	844	817	677	895	840	852	484	799	824	823	810
1903092	01903092	MONT PK MW-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900454	01900454	MONT PK MW-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900455	01900455	MONT PK MW-3	63.1	108	121	46.3	38.4	47.5	80.9	40.5	39.1	17.4	51	19.2	89.1	28.1	55.5	50.7	12.6
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	303	409	475	465	407	544	514	199	185	144	387	205	377	212	297	195	148
1900458	01900458	MONT PK MW-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902372	01902372	MONT PK MW-7	53.5	142	183	100	37.6	95.9	75	52	33.4	83.4	68	0	0	0	0	0	0
1902373	01902373	MONT PK MW-8	0	0	0	11.7	2.33	0.46	0.83	0	0	0.31	0	0	0	0	0	0	0
1902690	01902690	MONT PK MW-9	0.74	1.96	1.93	0.71	1.23	5.13	2.67	2.67	1.07	1.75	171	645	240	0	3.74	1.81	1.66
1902241	01902241	OWL ROCK PRODUCTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Z1000068	Z1000068	PICO RIVERA GOLF 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	3.87	8.25	6.27	5.86	3.83	9.34	10.9	2.42	0.64	4.41	2.88	0	0	0	0	0	0
1900120	01900120	RHMWC NORTH 1	18.7	30.6	24.1	28.6	20.9	35.6	45.2	29.2	35.5	55.4	75.2	37.8	34	48.6	45.7	12.9	27.5
1900121	01900121	RHMWC SOUTH 2	19.8	34.9	52.4	20.6	16.3	21.3	31.3	15.8	0.42	0	0	0.01	0.79	2.91	27.9	25.8	12.6
1902790	01902790	RINCON DITCH 04	0	1.56	55.5	19.4	6.09	11.2	54.8	57.7	1.92	24.5	38	143	37.8	88.5	172	6.37	39.9
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900094	01900094	ROSE HILLS 1	56.7	146	177	100	51.9	62.8	244	28.6	12.8	167	156	26.6	0	0	0	0	0
1900052	01900052	ROSE HILLS 3	0	0	0.02	0.02	0.01	0	0.65	0	0.02	0	0	0.01	0.01	14.6	44.8	25.5	6.08
8000060	08000060	SA1-3 (LANTE)	256	418	624	708	966	1230	1220	1151	1310	1390	1414	690	1406	1390	1302	680	1372
8000046	08000046	SCE 110RH (NORTH)	0.07	0.25	0.26	0.02	0.01	0.14	0.49	0.24	0	0	0	0	0	0	0	0	0
1900343	01900343	SCE 2EB76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000047	08000047	SCE MURATA	19.5	31.3	50.2	10.8	15.4	32.6	0	0	0	0	0	0	0	0	0	0	0
8000212	8000212	SCWC HWY-2	0	0	0	0	0	0	0	0	0	0	0	0	75.7	407	410	384	345
1902020	01902020	SCWC AZUSA 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902268	01902268	SCWC COLUMBIA 4	144	86.7	0	0	0	0	36.9	1.23	0.22	0.01	0.02	0.18	9.93	61.4	0	0	0
1902270	01902270	SCWC COLUMBIA 6	0.38	0.03	0	0	0	0	12.9	0.02	0.03	0.21	0.02	0.07	3.21	0	0	0	0
1902271	01902271	SCWC COLUMBIA 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000073	08000073	SCWC ENCINATAS 3	62.9	205	183	30.7	30.1	91.5	122	119	59.3	117	111	98.1	182	204	215	218	181
1902024	01902024	SCWC ENCINITAS 1	0	0	0	159	256	272	295	274	262	270	178	213	225	249	138	226	261
1902035	01902035	SCWC ENCINITAS 2	167	141	144	73.1	39.8	5.61	13.9	2.9	65.3	23.2	162	85.1	0.66	40.8	125	1.09	1.03
1902034	01902034	SCWC FARNA 1	50.3	286	77.6	168	94.1	22.7	100	213	216	258	283	121	1.91	0.05	207	179	147
1902948	01902948	SCWC FARNA 2	103	193	100	19.2	70.8	80.7	46.3	25.6	30	81.6	10.9	0.08	0	9.01	30.1	12.8	13.1
1900513	01900513	SCWC GARVEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900512	01900512	SCWC GARVEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	307	98.1	647	495	196	448	470	164	16.8	88.9	329	220	241	326	304	117	115

Notes:
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APPENDIX B
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Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1903033	01903033	MONT PK MW-12	818	779	806	800	782	774	820	807	721
1903092	01903092	MONT PK MW-14	0	0	0	0	0	0	0	0	0
1900454	01900454	MONT PK MW-2	0	0	0	0	0	0	0	0	0
1900455	01900455	MONT PK MW-3	28.8	0	0	0	0	0	0	0	0
1900456	01900456	MONT PK MW-4	0	0	0	0	0	0	0	0	0
1900457	01900457	MONT PK MW-5	310	471	123	154	307	358	175	265	445
1900458	01900458	MONT PK MW-6	0	0	0	0	0	0	0	0	0
1902372	01902372	MONT PK MW-7	0	0	0.4	0	0	0	0	0	0
1902373	01902373	MONT PK MW-8	0	0	0.86	0	0	0	0	0	0
1902690	01902690	MONT PK MW-9	2.15	30.4	18	1.78	1.66	1.2	1.69	1.1	1.07
1902241	01902241	OWL ROCK PRODUCTS	0	0	0	0	0	0	0	0	0
Z1000068	Z1000068	PICO RIVERA GOLF 1	0	0	0	0	0	0	0	0	0
1902169	01902169	POLOPOLUS 01	0	0	0	0	0	0	0	0	0
8000138	08000138	QVH 01	0	8.65	1.08	3.32	4.45	4.9	2.99	0	0
1900120	01900120	RHMWC NORTH 1	32.6	47.8	31.6	22.6	54.6	79	48.3	40.4	56.5
1900121	01900121	RHMWC SOUTH 2	20.9	31.4	17.7	15.8	9.84	0	0	0	0
1902790	01902790	RINCON DITCH 04	66.7	54.5	10.5	5.4	27.2	65.7	18.2	9.12	38.9
1901521	01901521	RMWC 1 SOUTH - DESTROYED	0	0	0	0	0	0	0	0	0
1901522	01901522	RMWC 2 NORTH - DESTROYED	0	0	0	0	0	0	0	0	0
1900094	01900094	ROSE HILLS 1	0	266	70.9	41.2	140	177	98.4	72.3	149
1900052	01900052	ROSE HILLS 3	18.2	0	0.02	0	0	0	0	0	0
8000060	08000060	SA1-3 (LANTE)	1233	1347	1385	1261	1337	917	117	564	1324
8000046	08000046	SCE 110RH (NORTH)	0	0	0	0	0	0	1.6	0.03	0
1900343	01900343	SCE 2EB76	0	0	0	0	0	0	0	0	0
8000047	08000047	SCE MURATA	0	0	0	0	0	0	0	0	0
8000212	8000212	SCWC HWY-2	359	361	364	253	233	303	290	267	253
1902020	01902020	SCWC AZUSA 1	0	0	0	0	0	0	0	0	0
1902268	01902268	SCWC COLUMBIA 4	0	0	1.25	76.4	96.6	128	110	111	118
1902270	01902270	SCWC COLUMBIA 6	0	0	0	0	0	0	0	0	0
1902271	01902271	SCWC COLUMBIA 7	0	0	0	0	0	0	0	0	0
1902272	01902272	SCWC COLUMBIA 8	0	0	0	0	0	0	0	0	0
1902144	01902144	SCWC EARL 1	0	0	0	0	0	0	0	0	0
8000073	08000073	SCWC ENCINATAS 3	92.8	0	0	0	114	118	0	62.9	151
1902024	01902024	SCWC ENCINITAS 1	256	221	126	16.7	102	130	115	156	139
1902035	01902035	SCWC ENCINITAS 2	101	284	274	359	220	238	330	194	179
1902034	01902034	SCWC FARNA 1	211	237	213	158	175	224	152	90.3	41.4
1902948	01902948	SCWC FARNA 2	29.3	93.5	131	33.8	31.9	18.6	126	63.1	100
1900513	01900513	SCWC GARVEY 1	0	0	0	0	0	0	0	0	0
1900512	01900512	SCWC GARVEY 2	0	0	0	0	0	0	0	0	0
1902032	01902032	SCWC GIDLEY 1	0	0	0	0	0	0	0	0	0
1902031	01902031	SCWC GIDLEY 2	0	0	0	0	0	0	0	0	0
1902030	01902030	SCWC GRAYDON 1	0	0	0	0	0	0	0	0	0
1902461	01902461	SCWC GRAYDON 2	0	0	0	0	0	0	0	0	0
1902017	01902017	SCWC JEFFERIES 1	0	0	0	0	0	0	0	0	0
1902018	01902018	SCWC JEFFERIES 2	0	0	0	0	0	0	0	0	0
1902019	01902019	SCWC JEFFERIES 3	0	0	0	0	0	0	0	0	0
8000111	08000111	SCWC JEFFERIES 4	172	255	47.1	101	272	312	121	95.5	265

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1902027	01902027	SCWC PERSIMMON 1	0	0	0	68.3	135	0.3	3.34	0.95	35.4	22.8	1.29	1.63	14.6	1.23	2.42	18.5	42.5
1900515	01900515	SCWC SAXON 1	161	171	154	151	153	154	151	147	145	149	146	138	129	68.8	25.8	179	177
1900514	01900514	SCWC SAXON 3	161	44.2	161	169	175	174	170	168	157	157	157	175	172	170	167	158	134
8000146	08000146	SCWC SAXON 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900510	01900510	SCWC SG 1	260	168	27.9	103	207	45.9	89.3	231	361	94	13.6	189	241	107	230	276	222
1900511	01900511	SCWC SG 2	203	243	175	201	207	181	193	214	151	187	163	216	222	190	176	115	272
1900547	01900547	SGCC 1	0.24	0	0	0	0	0	0.33	0	0.07	0	0	0.01	0	0	0	0.06	0
1902979	01902979	SGCC 2	71.2	18.6	5.15	43.6	64	7.89	32.6	80.5	73.3	16	13.4	65.3	75.6	16.6	14	66.6	66.9
1902786	01902786	SGCWD 10	0	0	0	0	122	2.33	0	0.44	0	0	0.65	70.7	38.1	2.39	0.37	5.28	0.21
8000067	08000067	SGCWD 11	890	1342	578	558	612	1614	1600	1596	1578	1450	1570	1084	1280	1142	1376	1466	1422
8000123	08000123	SGCWD 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000133	08000133	SGCWD 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	621	138	739	706	712	13.2	29.3	126	247	129	430	233	150	4.18	11.9	89.8	144
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	126	42.8	37.3	55	0	293	50.9	29.7	8.37	0.89	1.51	10.2	2.26	0.83	0	0.17	0.15
1901669	01901669	SGCWD BRA 5	322	306	0.16	6.39	62.4	520	657	718	515	13.6	22.8	473	728	738	623	744	809
1900739	41900739	SGVWC 11A	274	177	239	273	427	236	73.1	219	163	61.7	56.3	302	411	171	164	412	550
1900745	41900745	SGVWC 11B	293	177	136	186	202	55.8	96.3	305	260	162	136	240	320	152	105	151	393
1902713	41902713	SGVWC 11C	171	101	57.7	109	109	47.4	75.9	14.8	31.3	4.75	0.03	56.2	190	62.1	65.1	135	161
1900729	11900729	SGVWC 1B	536	415	475	490	508	117	177	361	454	358	287	383	406	382	350	373	111
1902946	11902946	SGVWC 1C	190	131	47	135	102	163	276	349	93.7	280	178	265	416	435	393	435	621
8000102	18000102	SGVWC 1D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000172	8000172	SGVWC 1E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900749	21900749	SGVWC 2C	271	239	142	226	261	165	255	355	344	244	179	349	246	62.7	51	70	147
1902857	21902857	SGVWC 2D	358	350	357	397	189	285	293	377	268	458	421	479	385	740	698	867	824
8000065	28000065	SGVWC 2E	569	390	385	362	689	492	482	656	762	567	523	605	659	379	328	436	498
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900736	31900736	SGVWC 8A	139	44.6	84.3	88.2	269	169	60.8	173	257	97.9	83	270	342	185	137	268	365
1900746	31900746	SGVWC 8B	501	245	140	353	480	241	339	480	569	352	289	458	504	426	362	524	542
1900747	31900747	SGVWC 8C	294	73.5	15.1	109	237	120	148	251	412	149	106	343	377	202	127	312	372
1903103	31903103	SGVWC 8D	245	156	136	202	278	89.1	91.4	204	229	64.4	0	84.6	384	131	64.1	191	267
8000113	08000113	SGVWC 8E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000169	08000169	SGVWC 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902635	81902635	SGVWC B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	374
1901439	91901439	SGVWC B11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000108	98000108	SGVWC B11B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902525	81902525	SGVWC B2	599	420	489	518	469	334	482	446	531	387	272	131	74.7	0	0	251	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902858	51902858	SGVWC B4B	1125	640	335	601	1135	486	385	652	1397	856	742	1389	1763	1657	1719	1906	1773
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	965	637	516	795	1137	661	570	1083	1470	1016	778	934	1013	879	796	946	987

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1902027	01902027	SCWC PERSIMMON 1	5.36	1.6	36.2	69	60	53.9	20.7	92.3	101	149	1.46	0.68	1.73	1.43	5.09	1.19	1.29
1900515	01900515	SCWC SAXON 1	173	169	166	165	162	161	159	159	148	179	175	168	172	168	167	164	167
1900514	01900514	SCWC SAXON 3	131	135	136	135	150	145	146	149	143	145	133	131	119	121	121	104	102
8000146	08000146	SCWC SAXON 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900510	01900510	SCWC SG 1	94.5	104	228	265	106	96.2	206	264	124	68.5	195	219	128	184	237	230	125
1900511	01900511	SCWC SG 2	258	236	269	307	240	243	267	282	262	236	283	275	275	265	288	301	255
1900547	01900547	SGCC 1	0	0	0	0	0	0	2.27	6.81	0	0	0	0	0	0	0	0	0
1902979	01902979	SGCC 2	20.9	17.1	59.3	78.9	4.48	24	65	64.3	22.2	4.36	92.1	84.8	28.5	15.1	62.6	82.8	34.3
1902786	01902786	SGCWD 10	25.4	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	1272	854	522	1378	1384	1560	1304	1302	1186	416	278	1514	1334	808	1142	1070	912
8000123	08000123	SGCWD 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000133	08000133	SGCWD 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	19.9	224	632	390	99.6	13.7	121	215	89.2	506	564	340	152	366	262	521	499
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	50.8	0	0	0	0	0	0	141	347	83.2
1902785	01902785	SGCWD 9	0.2	102	506	616	404	0.31	56.8	0.1	25.5	510	526	447	342	519	464	427	456
1901669	01901669	SGCWD BRA 5	417	221	359	379	242	334	466	597	328	13.8	153	10.3	86.7	79.7	231	151	79.6
1900739	41900739	SGVWC 11A	304	308	520	564	528	407	366	456	281	289	444	423	350	287	419	509	426
1900745	41900745	SGVWC 11B	215	202	352	428	331	240	269	70.1	13	212	429	501	303	245	267	443	350
1902713	41902713	SGVWC 11C	33.4	21.5	74.2	147	112	53.8	208	251	131	18.6	334	400	484	424	412	295	353
1900729	11900729	SGVWC 1B	15.2	731	704	789	336	469	589	742	686	633	708	775	703	671	100	560	786
1902946	11902946	SGVWC 1C	648	70.9	304	307	140	408	539	586	506	67.8	53.8	257	239	132	220	174	23.1
8000102	18000102	SGVWC 1D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000172	8000172	SGVWC 1E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900749	21900749	SGVWC 2C	98.8	101	128	141	48.4	37.6	68.3	110	57.6	62.6	83.2	195	247	213	152	83.1	64.8
1902857	21902857	SGVWC 2D	763	736	656	643	824	631	791	657	678	787	790	624	126	0	503	868	782
8000065	28000065	SGVWC 2E	422	313	502	628	351	452	415	538	364	273	378	587	699	718	548	388	351
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900736	31900736	SGVWC 8A	230	138	335	457	142	228	176	308	107	84.3	212	264	65.1	0	0	0	0
1900746	31900746	SGVWC 8B	332	234	443	507	238	150	425	530	354	305	465	527	269	154	0	0	0
1900747	31900747	SGVWC 8C	143	87.7	273	334	80.4	60.1	331	448	394	199	428	479	353	190	0	0	0
1903103	31903103	SGVWC 8D	194	109	307	333	208	185	211	263	187	114	203	190	114	192	994	1715	1117
8000113	08000113	SGVWC 8E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000169	08000169	SGVWC 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902635	81902635	SGVWC B1	82.8	518	489	554	484	502	487	490	43.3	0.57	403	453	422	414	407	421	413
1901439	91901439	SGVWC B11A	0	0	0	1225	661	978	1529	578	355	237	391	450	413	401	391	448	362
8000108	98000108	SGVWC B11B	0	0	0	0	0	0	0	571	203	68.9	414	571	215	144	256	426	243
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902858	51902858	SGVWC B4B	1176	1316	1651	1691	1337	179	215	1775	1208	848	817	807	1498	1401	1439	1412	1187
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	350	272	730	1069	617	1036	1586	1365	1073	884	1202	1719	753	652	1081	1653	929

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1902027	01902027	SCWC PERSIMMON 1	0.9	0.01	0	0.55	0	1.71	0.18	0.61	0	0.13	0.77	0	0.16	0.08	0	0	0
1900515	01900515	SCWC SAXON 1	180	181	170	166	159	159	158	159	158	160	158	168	163	126	1.51	11.8	100
1900514	01900514	SCWC SAXON 3	106	105	100	95.9	105	104	99	102	152	160	159	162	140	114	0.3	12.8	94.6
8000146	08000146	SCWC SAXON 4	0	0	0	0	0	0	0	0	0	0	0	0	0	42.9	412	387	132
1900510	01900510	SCWC SG 1	54.1	62.2	124	110	28.1	144	270	97.1	20	82.3	157	83.6	44.8	74.3	136	19.9	29.8
1900511	01900511	SCWC SG 2	239	260	288	245	222	274	303	282	233	275	307	284	265	264	261	189	231
1900547	01900547	SGCC 1	0	0	0	0	0	0	0.26	0	0.03	0.02	0.08	0	0	0	0.02	8.68	0.02
1902979	01902979	SGCC 2	13.3	68.6	76.1	23.5	7.27	74.7	82.1	20.3	11.1	74.9	90.6	27	18	70.1	113	25.9	9.56
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	1180	1066	12	41.4	6.9	9.2	384	32	822	410	3.44	54	198	442	794	458	196
8000123	08000123	SGCWD 12	79	316	356	771	362	138	303	113	102	124	468	263	43.8	162	564	864	556
8000133	08000133	SGCWD 14	0	0	0.1	16.7	36.2	470	597	156	105	29.2	7.59	2.11	0.95	2.91	135	65.9	4.6
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	70.6	135	715	177	337	473	317	631	367	708	682	677	634	681	476	53.6	241
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	432	438	449	458	428	440	451	442	212	509	511	521	488	500	525	511	491
1901669	01901669	SGCWD BRA 5	29.8	2.84	0.89	3.22	1.12	1.52	0.62	0.6	0.78	35.9	183	20.5	1.46	7.84	3.26	2.34	1.77
1900739	41900739	SGVWC 11A	336	394	490	456	314	304	417	398	399	489	515	423	387	414	435	365	306
1900745	41900745	SGVWC 11B	140	151	250	280	87.6	228	434	274	215	377	419	223	190	262	345	166	171
1902713	41902713	SGVWC 11C	122	135	181	200	102	90.3	212	227	134	156	276	132	54.7	127	229	67.1	22.4
1900729	11900729	SGVWC 1B	490	243	23.4	18.2	741	1498	1448	1141	1002	1086	1454	1166	852	1146	1476	1505	1268
1902946	11902946	SGVWC 1C	150	433	499	234	0	0	0	0	0	0	0	0	0	0	0	0	0
8000102	18000102	SGVWC 1D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000172	8000172	SGVWC 1E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900749	21900749	SGVWC 2C	17.9	117	155	254	66.3	97.9	21.6	14.6	45.3	19.9	20.1	3.93	8.03	30.6	103	3.49	12.3
1902857	21902857	SGVWC 2D	504	61.2	0.92	265	624	516	967	728	567	952	869	960	980	925	914	915	406
8000065	28000065	SGVWC 2E	439	725	938	987	782	706	421	338	380	577	615	481	496	571	883	357	723
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900747	31900747	SGVWC 8C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903103	31903103	SGVWC 8D	802	1108	1390	1124	838	1105	1526	869	718	1237	1446	911	803	1189	1617	924	708
8000113	08000113	SGVWC 8E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000169	08000169	SGVWC 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902635	81902635	SGVWC B1	378	375	392	271	140	401	441	400	327	120	302	124	25.5	102	375	438	106
1901439	91901439	SGVWC B11A	222	162	269	160	78.9	395	404	109	35.1	177	257	126	98.6	137	286	121	50.5
8000108	98000108	SGVWC B11B	43.8	110	99.4	3.5	2.19	115	32.4	0.48	137	811	743	524	342	478	817	241	250
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902858	51902858	SGVWC B4B	585	401	884	496	325	380	842	451	310	538	704	753	692	193	28	79.9	20.1
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	496	1238	1668	1689	1546	1628	2302	2013	1410	1709	1917	1809	1774	1944	2063	1848	945

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1902027	01902027	SCWC PERSIMMON 1	0	0	0	3	0	0	3	94	213	127	109	64.8	78	152	110	83.4	132
1900515	01900515	SCWC SAXON 1	85.3	77	40	2	0	0	75	26	0	3.01	0.73	0.26	0	0	0	0	0
1900514	01900514	SCWC SAXON 3	100	88	46	3	1	0	9	110	124	129	137	163	178	145	157	148	123
8000146	08000146	SCWC SAXON 4	165	189	306	393	412	400	349	299	333	262	117	128	128	281	169	192	234
1900510	01900510	SCWC SG 1	89.3	207	89	42	139	148	38	30	179	205	111	229	84.2	137	71.1	143	0.82
1900511	01900511	SCWC SG 2	252	298	253	222	264	268	90	0	32	220	160	47	72.8	236	282	145	353
1900547	01900547	SGCC 1	0.03	0	0	9	0	0	0	0	6	0	0.01	0	0	0	0	0	0.03
1902979	01902979	SGCC 2	69.5	115	38	6	102	113	37	35	97	114	35.4	10.9	62.2	114	36.2	30.2	77
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	720	812	818	178	1238	1448	1412	276	630	546	75.6	198	440	886	518	288	538
8000123	08000123	SGCWD 12	878	313	611	265	519	553	165	100	294	508	357	39.6	152	381	146	179	240
8000133	08000133	SGCWD 14	73.5	47	86	7	6	116	1	8	53	72.4	11.6	0.51	3.17	19.1	0.73	17.4	8.96
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	52.7	715	245	509	737	759	723	775	833	841	756	779	816	892	834	639	678
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	404	567	332	501	0	0	0	518	576	574	539	514	558	564	565	551	549
1901669	01901669	SGCWD BRA 5	1.43	1	2	1	4	3	1	3	1	1.56	0.99	2.11	0.92	0.75	1.18	0.79	1
1900739	41900739	SGVWC 11A	490	522	425	374	452	471	461	532	512	670	397	175	436	764	423	402	711
1900745	41900745	SGVWC 11B	282	417	242	193	303	678	0	58	736	781	706	610	663	784	725	483	184
1902713	41902713	SGVWC 11C	18.8	81	11	5	185	51	34	44	57	192	103	61.9	5.43	92.6	10.9	13.5	244
1900729	11900729	SGVWC 1B	1495	1766	2290	1997	1563	467	219	100	133	107	67.2	187	304	6.76	21.9	26	182
1902946	11902946	SGVWC 1C	0	0	0	0	0	10	22	43	75	162	78.2	468	681	305	153	443	157
8000102	18000102	SGVWC 1D	0	0	0	0	0	1289	1252	1159	1130	1286	1147	585	387	1401	1323	856	776
8000172	8000172	SGVWC 1E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900749	21900749	SGVWC 2C	6.46	12	49	0	0	15	89	116	93	58	25.2	18.1	109	20.7	0.9	5.43	8.65
1902857	21902857	SGVWC 2D	900	945	272	137	0	831	718	879	897	1031	843	821	1003	786	471	347	702
8000065	28000065	SGVWC 2E	560	790	396	583	1760	1117	981	734	1067	1063	985	692	619	1212	1301	1262	1220
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	0	0	0	0	0	3	3	1	0	70.7	2.58	1.75	2.83	1.16	0.68	0.58	0.51
1900747	31900747	SGVWC 8C	0	0	0	0	0	2	15	7	3	120	11.9	13.6	13.4	10.6	1.94	3.53	2.87
1903103	31903103	SGVWC 8D	729	1233	805	552	956	246	44	59	108	478	80.5	152	56.7	122	2.09	2.82	11.6
8000113	08000113	SGVWC 8E	0	0	0	0	0	1166	699	460	807	479	458	123	549	1012	444	101	127
8000169	08000169	SGVWC 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	320	612
1902635	81902635	SGVWC B1	368	477	57	50	455	461	421	393	424	370	390	282	381	402	89.8	393	387
1901439	91901439	SGVWC B11A	146	313	19	3	176	293	182	95	197	265	97.7	44.9	89.9	254	290	57.3	130
8000108	98000108	SGVWC B11B	627	893	530	320	638	834	295	184	623	911	340	182	399	853	439	262	507
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902858	51902858	SGVWC B4B	58.5	75	27	349	387	28	12	3	222	243	0	0	0	0	0	176	418
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	16	30	38	20.8	0	0	0	0	0	1132	1744
1900718	61900718	SGVWC B5A	1152	1584	1627	1060	804	773	536	468	536	585	474	529	277	319	357	130	141

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1902027	01902027	SCWC PERSIMMON 1	126	37.9	154	156	329	77.4	20.9	98.6	187	87.5	44.1	135	192	56.2	24.3	200	228
1900515	01900515	SCWC SAXON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900514	01900514	SCWC SAXON 3	126	110	121	127	131	120	125	115	109	106	109	115	116	108	116	113	107
8000146	08000146	SCWC SAXON 4	302	258	118	169	297	124	82.2	402	396	210	18.9	102	297	299	300	326	338
1900510	01900510	SCWC SG 1	0	0	0	4.03	0	0	0	0	0	233	472	435	51.3	0	0.17	0	0
1900511	01900511	SCWC SG 2	342	341	342	356	322	324	229	0	0	0.25	0.19	4.46	0	0	0.21	0.06	0
1900547	01900547	SGCC 1	0	0	0.01	0	0	0	0	0	0	0	0	0	6.54	0.03	0	0	49
1902979	01902979	SGCC 2	126	53	27.4	114	107	36.7	16.6	92.6	120	28.6	35.8	99.4	112	33.7	32.2	71.2	75.1
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	942	612	304	806	1060	242	0.12	876	1408	1276	936	692	876	612	1012	564	844
8000123	08000123	SGCWD 12	311	101	53.1	425	667	385	697	569	782	346	647	578	618	643	655	613	587
8000133	08000133	SGCWD 14	80.1	183	30.1	13.7	142	79.6	251	84.5	68.4	57.5	390	388	499	325	318	370	391
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	744	716	713	614	716	704	200	749	797	559	79.2	151	187	396	51	0.7	528
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	561	547	527	530	481	458	325	0	0	0	0	479	562	310	0	497	662
1901669	01901669	SGCWD BRA 5	0.72	1.51	0.76	0.78	11.2	0.83	0.84	0	0	0	0	0	0	0	0	0	0
1900739	41900739	SGVWC 11A	701	626	80	358	535	367	489	436	559	349	516	550	638	463	427	383	695
1900745	41900745	SGVWC 11B	558	546	475	541	646	610	249	608	702	525	402	735	764	593	365	597	690
1902713	41902713	SGVWC 11C	175	28.9	2.75	9.99	40.3	3.08	73.7	32.5	133	67.2	25.4	171	329	116	71.4	56.3	344
1900729	11900729	SGVWC 1B	79.7	124	4.22	29.7	107	1.46	0.62	6.44	91.8	38.8	129	9.78	41.9	3.74	3.15	36	200
1902946	11902946	SGVWC 1C	398	679	31	61.6	177	2.69	1.26	39.5	205	113	278	35.8	129	37.4	11	17.6	186
8000102	18000102	SGVWC 1D	1168	1071	361	593	704	506	310	588	577	791	955	1012	1073	934	799	904	997
8000172	8000172	SGVWC 1E	0	0	1345	1224	937	1353	1273	1343	1209	707	458	1157	1192	1132	1092	1096	1142
1900749	21900749	SGVWC 2C	5.48	11.7	12.5	23.9	10.9	48.4	15.6	133	12.6	31.6	13.1	16.9	44.1	48.4	28.5	51.9	104
1902857	21902857	SGVWC 2D	594	312	232	478	551	329	162	392	648	649	419	505	664	563	477	555	602
8000065	28000065	SGVWC 2E	1183	1183	1052	1033	1050	951	1073	920	1003	916	1044	1006	970	780	893	920	906
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	1.15	1	0.58	0.79	6.51	0.37	0	0.15	0	0.03	0	0.12	92	49.4	69.4	138	1.92
1900747	31900747	SGVWC 8C	2.86	8.12	1.94	8.41	21.4	0.94	0	0.26	0	0.14	0	0.18	90.2	106	49.8	48.9	42.9
1903103	31903103	SGVWC 8D	52.7	11.2	3.42	2.4	29.2	0.73	0	0.21	0	0.76	0	0.43	361	226	345	608	852
8000113	08000113	SGVWC 8E	503	337	46.3	261	546	144	170	258	395	50	39.2	229	243	11.3	4.01	3	706
8000169	08000169	SGVWC 8F	593	297	398	713	885	597	257	646	1046	678	572	885	700	298	90.2	149	817
1902635	81902635	SGVWC B1	494	468	90.2	186	461	459	361	350	487	481	462	426	487	500	487	461	492
1901439	91901439	SGVWC B11A	252	30.7	81.9	241	331	0.64	0.61	105	216	115	163	121	117	147	186	109	120
8000108	98000108	SGVWC B11B	836	541	337	472	703	519	309	618	382	485	564	731	762	627	684	593	680
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902858	51902858	SGVWC B4B	624	512	602	744	834	681	709	758	851	871	700	782	721	640	596	627	800
1902947	51902947	SGVWC B4C	1784	1678	1638	1872	1836	1062	1034	1528	1198	0.34	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	153	32.3	286	302	466	131	49.4	299	520	0.42	40.5	0.59	36.7	9.94	0.67	52.2	295

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1902027	01902027	SCWC PERSIMMON 1	165	10.5	221	198	84.3	20.4	122	151	8.73	46.2	32.8	189	13.5	51.9	134	204	134
1900515	01900515	SCWC SAXON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900514	01900514	SCWC SAXON 3	119	116	112	110	105	110	118	114	123	125	116	105	97.6	102	97.1	84.6	78.3
8000146	08000146	SCWC SAXON 4	341	359	286	141	330	365	376	309	166	0	143	329	300	267	291	316	279
1900510	01900510	SCWC SG 1	77.1	0	163	362	194	0.38	1.31	199	311	365	266	373	334	332	359	353	353
1900511	01900511	SCWC SG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900547	01900547	SGCC 1	0	16.6	0.01	0	0	1.67	5.68	0.08	0.06	0.03	7.71	16.6	0	0	0.05	0	0
1902979	01902979	SGCC 2	33.1	24.3	89	126	20.7	2.13	85.8	117	33.4	28.2	80.1	106	29.2	51.5	99.2	125	31.5
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	402	118	884	1056	460	62.8	230	0	0	0	18	680	354	284	642	550	132
8000123	08000123	SGCWD 12	232	327	710	774	615	492	443	709	397	429	498	564	450	451	698	869	695
8000133	08000133	SGCWD 14	75.1	162	458	497	271	232	254	581	183	172	354	443	237	243	594	877	731
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	577	351	0	0	238	121	386	460	453	244	236	322	289	205	327	358	172
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	665	584	658	652	653	623	642	648	641	630	632	630	628	600	5.26	0	0
1901669	01901669	SGCWD BRA 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900739	41900739	SGVWC 11A	514	343	523	814	653	344	317	571	761	769	423	1138	1081	1016	809	544	260
1900745	41900745	SGVWC 11B	734	619	717	743	768	556	690	440	0.55	24.3	612	125	201	142	286	550	106
1902713	41902713	SGVWC 11C	270	87.2	264	238	112	79.9	11.2	47.9	26	3.81	2.99	408	198	125	200	147	6.48
1900729	11900729	SGVWC 1B	9.78	5.78	31.5	160	4.59	2.22	5.1	3.36	2.12	11.4	2.71	448	274	28.9	13.3	9.43	0.43
1902946	11902946	SGVWC 1C	63.6	13.9	168	354	102	11.4	14.8	21.8	0.84	95.5	6.95	91.5	36	28.9	38.4	46	1.47
8000102	18000102	SGVWC 1D	726	844	906	910	804	621	793	824	650	727	500	50.8	5.06	435	757	906	710
8000172	8000172	SGVWC 1E	1106	1136	1161	1056	975	1060	1228	1196	1145	877	1180	1266	1186	990	1063	1097	1084
1900749	21900749	SGVWC 2C	21.8	50.4	19.3	38.6	15.8	63.7	291	98.9	10.8	7.82	0	21	0.55	2.24	7.36	0	0
1902857	21902857	SGVWC 2D	641	297	450	613	443	226	503	351	116	29	253	0	0	0	0	9.1	5.91
8000065	28000065	SGVWC 2E	908	962	927	871	881	960	511	896	1140	892	1063	509	438	292	476	727	502
8000197	8000197	SGVWC 2F	0	0	0	0	0	0	0	0	0	0	0	948	767	797	736	714	684
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	0.76	7.46	4.33	8.59	7.81	4.37	2.84	0	0	0	33	17.4	2.16	0.48	143	214	159
1900747	31900747	SGVWC 8C	1.78	54.7	85.9	2.15	14.4	17.5	145	0	0	0	17.4	8.53	1.24	0.85	68.6	59.4	37.3
1903103	31903103	SGVWC 8D	626	421	730	799	103	5.81	133	559	175	59.6	125	588	80.5	1.78	220	672	380
8000113	08000113	SGVWC 8E	543	271	609	753	298	261	888	945	752	511	517	939	513	486	450	163	102
8000169	08000169	SGVWC 8F	126	318	642	431	122	159	189	168	22.5	99	273	640	26.3	71.8	25	142	31.2
1902635	81902635	SGVWC B1	505	500	493	460	466	468	386	524	516	240	402	222	0	0	0	0	0
1901439	91901439	SGVWC B11A	119	165	109	96.7	14.3	0	0	0	0	0	0	0	0	0	0	0	0
8000108	98000108	SGVWC B11B	581	674	666	705	562	132	600	651	631	329	655	619	612	561	404	599	167
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	730	794	521
8000203	8000203	SGVWC B24S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	723	806	512
8000187	08000187	SGVWC B25A	0	0	0	0	0	0	11.7	0	0	279	642	1077	1076	1039	1064	1043	1015
8000188	08000188	SGVWC B25B	0	0	0	0	0	0	11	0	0	255	582	967	965	931	949	925	908
8000189	08000189	SGVWC B26A	0	0	0	0	0	0	5.69	0	0	130	455	434	443	428	433	435	448
8000190	08000190	SGVWC B26B	0	0	0	0	0	0	6.08	0	0	128	483	513	522	505	509	511	525
1902858	51902858	SGVWC B4B	678	24.3	774	812	714	101	715	710	233	368	165	245	49.4	37.7	17.9	22.8	15.2
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	81.7	69	218	275	59.5	83.5	119	129	15.9	2.51	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1902027	01902027	SCWC PERSIMMON 1	69.5	88	57.4	0.04	14.7	20.5	113	25.9	11.4	59.9	24.4	1.11	2.23	54.1	72.6	0.3	0.91
1900515	01900515	SCWC SAXON 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900514	01900514	SCWC SAXON 3	79.4	80.1	88.8	85.1	96.1	97.5	107	104	121	109	79.3	41.5	36.8	96.6	89.2	82.7	88.9
8000146	08000146	SCWC SAXON 4	269	310	328	290	222	272	238	158	0	191	303	216	209	282	134	156	170
1900510	01900510	SCWC SG 1	291	352	356	345	319	338	342	334	324	309	300	357	338	53.7	451	367	269
1900511	01900511	SCWC SG 2	0	0	0	0	0	0	0	0	0	0.6	0.14	0.15	0.58	0.62	0.4	0.69	0.16
1900547	01900547	SGCC 1	0	0	0.12	0.02	0	0	0	0	0	0.03	0	0.01	0	0	0	0	0
1902979	01902979	SGCC 2	21.8	97.5	153	24.7	19.2	99.6	116	39	12.9	89	109	20.3	7.31	89.1	63.1	88.8	25.8
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	40.4	152	594	322	236	292	508	346	242	424	506	264	208	372	456	200	120
8000123	08000123	SGCWD 12	651	422	692	578	296	261	303	0	484	636	652	257	223	300	420	228	281
8000133	08000133	SGCWD 14	764	874	527	321	177	434	556	490	74.5	342	513	267	194	268	381	209	367
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901671	01901671	SGCWD 7	149	244	164	174	281	336	330	326	129	0	0.51	290	296	327	351	346	12
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	0	428	533	529	513	504	503	498	477	469	466	459	447	455	449	437	433
1901669	01901669	SGCWD BRA 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900739	41900739	SGVWC 11A	780	921	734	416	671	568	347	96.6	33.2	221	80.8	14.2	19.9	184	709	334	412
1900745	41900745	SGVWC 11B	27.3	421	392	449	16.8	160	106	67.2	11.6	58.8	159	41.6	88.9	357	184	5.98	29.4
1902713	41902713	SGVWC 11C	108	298	66.2	57.9	45	3.39	47.4	11.9	5.41	2.09	9.79	0.38	0.55	1.77	56.9	0.42	6.76
1900729	11900729	SGVWC 1B	10.2	270	9.37	2.62	1.78	0.51	12.4	65.4	177	192	307	33.7	0.99	1.48	1.77	0.66	60.2
1902946	11902946	SGVWC 1C	167	297	84.3	10.3	2.03	0.22	13	2.4	0.52	0.48	2.86	0.63	0.76	0.31	0.58	0.67	1.52
8000102	18000102	SGVWC 1D	335	8.16	506	367	427	357	371	275	10.5	28.8	61.6	62.9	67.9	67.7	46.4	10.9	8.28
8000172	8000172	SGVWC 1E	1050	1169	758	960	896	916	933	954	849	1057	1174	864	831	791	767	397	667
1900749	21900749	SGVWC 2C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902857	21902857	SGVWC 2D	73.4	122	110	370	98.6	25.2	68	2.04	2.4	0.34	8.95	107	169	0.56	1.61	5.69	192
8000065	28000065	SGVWC 2E	690	545	446	181	303	613	543	233	137	252	332	111	567	731	322	341	48.4
8000197	8000197	SGVWC 2F	393	687	770	657	523	324	437	778	719	835	679	603	17.4	4.8	520	85.1	145
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	101	248	124	37.6	0.67	123	52.5	2.28	0.59	10.4	3.56	0.77	2.58	0.61	3.65	2.93	0.61
1900747	31900747	SGVWC 8C	18.5	28	60	31.3	13.5	31.6	249	118	57.3	203	260	149	170	248	412	206	168
1903103	31903103	SGVWC 8D	163	563	488	233	151	400	686	203	96.8	437	511	286	323	450	733	383	321
8000113	08000113	SGVWC 8E	151	148	22.5	4.65	3.52	33.2	26.6	56.3	34.5	27.9	8.67	5.46	6.74	2.44	6.17	9.49	2.94
8000169	08000169	SGVWC 8F	101	113	30.4	56.4	113	29.9	56.9	3.07	50.3	6.12	29.5	4.28	27.9	50.4	24.3	10.2	5.73
1902635	81902635	SGVWC B1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901439	91901439	SGVWC B11A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000108	98000108	SGVWC B11B	195	789	655	508	23.9	469	653	313	204	441	654	157	149	480	826	377	477
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	294	391	217	86.2	80.1	227	160	52.9	56.3	28.5	56.8	50.1	7.05	8.94	21.2	6.78	13.6
8000203	8000203	SGVWC B24S	294	81.4	94.9	83.2	79.7	216	153	51.8	56.3	28	55.2	49.6	6.89	9.04	21	6.89	18.1
8000187	08000187	SGVWC B25A	1033	1049	992	375	247	491	690	421	7.91	815	788	526	489	672	907	930	533
8000188	08000188	SGVWC B25B	925	928	868	332	235	474	839	505	9.72	698	667	450	422	548	701	761	432
8000189	08000189	SGVWC B26A	437	438	443	474	478	423	392	324	423	373	389	400	394	414	384	386	302
8000190	08000190	SGVWC B26B	521	522	523	553	572	505	517	454	543	413	407	386	373	404	379	382	298
1902858	51902858	SGVWC B4B	21.8	7.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1902027	01902027	SCWC PERSIMMON 1	24.4	32.5	0.63	26.1	55	88.2	18.2	84.3	51.8
1900515	01900515	SCWC SAXON 1	0	0	0	0	0	0	0	0	0
1900514	01900514	SCWC SAXON 3	83.2	81.2	74.9	61.1	65.8	81.8	56.8	19.9	23
8000146	08000146	SCWC SAXON 4	147	192	91.9	55.5	162	243	171	116	155
1900510	01900510	SCWC SG 1	409	404	399	388	414	416	391	353	397
1900511	01900511	SCWC SG 2	0.48	83.1	85.1	96.7	59.7	0.02	26.6	102	116
1900547	01900547	SGCC 1	0	0	0.06	0	0	12.2	18.9	33.6	6.21
1902979	01902979	SGCC 2	94	124	37.9	48.7	85.6	96.2	38	1.34	102
1902786	01902786	SGCWD 10	0	0	0	0	0	0	0	0	0
8000067	08000067	SGCWD 11	236	406	418	340	338	468	166	116	326
8000123	08000123	SGCWD 12	475	522	304	327	496	588	449	364	295
8000133	08000133	SGCWD 14	390	567	334	264	479	561	404	316	288
8000220	8000220	SGCWD 15	0	0	0	0	0	0	0	82.9	340
1901671	01901671	SGCWD 7	0	0	0	0	0	0	0	0	0
1901672	01901672	SGCWD 8	0	0	0	0	0	0	0	0	0
1902785	01902785	SGCWD 9	434	440	437	422	417	413	402	392	389
1901669	01901669	SGCWD BRA 5	0	0	0	0	0	0	0	0	0
1900739	41900739	SGVWC 11A	970	979	831	818	866	797	396	465	678
1900745	41900745	SGVWC 11B	363	604	244	257	516	635	728	689	687
1902713	41902713	SGVWC 11C	102	339	173	30.7	170	257	97.3	44	180
1900729	11900729	SGVWC 1B	220	440	264	115	457	310	178	161	240
1902946	11902946	SGVWC 1C	0.68	0.79	0.41	163	47.3	29.7	7.41	8.74	58.5
8000102	18000102	SGVWC 1D	22.6	443	884	818	1008	978	921	895	892
8000172	8000172	SGVWC 1E	1008	873	58.4	11.5	304	997	609	627	918
1900749	21900749	SGVWC 2C	0	0	0	0	0	0	0	0	0
1902857	21902857	SGVWC 2D	59.2	28.1	3.69	1.81	1.95	23.3	0.57	4.35	16.5
8000065	28000065	SGVWC 2E	0.68	254	120	59.6	365	648	332	415	508
8000197	8000197	SGVWC 2F	525	684	576	521	593	673	652	345	536
1900736	31900736	SGVWC 8A	0	0	0	0	0	0	0	0	0
1900746	31900746	SGVWC 8B	0.98	1.49	0.87	1	1.07	0.75	39.5	32.2	1.36
1900747	31900747	SGVWC 8C	243	355	157	128	250	324	155	99.9	271
1903103	31903103	SGVWC 8D	457	652	288	238	466	550	331	198	486
8000113	08000113	SGVWC 8E	2.69	9.42	3.57	1.61	4.33	3.77	3.02	34.9	4.41
8000169	08000169	SGVWC 8F	8.04	16.5	10.4	3.8	4.86	42.7	24.3	56.8	19
1902635	81902635	SGVWC B1	0	0	0	0	0	0	0	0	0
1901439	91901439	SGVWC B11A	0	0	0	0	0	0	0	0	0
8000108	98000108	SGVWC B11B	540	498	302	436	714	721	772	584	503
1902525	81902525	SGVWC B2	0	0	0	0	0	0	0	0	0
8000204	8000204	SGVWC B24B	8.85	6.56	5.48	2.53	178	298	183	1.91	2.15
8000203	8000203	SGVWC B24S	9.18	6.72	5.46	2.74	174	295	191	4.7	6.75
8000187	08000187	SGVWC B25A	165	274	0.66	1.26	659	664	0	0	622
8000188	08000188	SGVWC B25B	132	224	0.58	1.09	717	718	0	0	883
8000189	08000189	SGVWC B26A	383	420	442	308	238	212	0	0	217
8000190	08000190	SGVWC B26B	377	412	437	308	321	291	0	0.17	378
1902858	51902858	SGVWC B4B	0	0	0	0	0	0	0	0	0
1902947	51902947	SGVWC B4C	0	0	0	0	0	0	0	0	0
1900718	61900718	SGVWC B5A	0	0	0	0	0	0	0	0	0

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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1900719	61900719	SGVWC B5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000112	08000112	SGVWC B5C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000160	08000160	SGVWC B5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900721	71900721	SGVWC B6B - CAPPED	459	341	343	341	231	243	273	271	255	273	277	297	196	125	0	0.21	23.8
8000084	78000084	SGVWC B6B2	467	440	338	405	324	222	61.3	201	273	182	51.7	270	133	2.69	0	0	70.3
1903093	71903093	SGVWC B6C	422	473	426	438	743	694	755	708	693	592	777	703	749	441	0	1.15	162
8000098	78000098	SGVWC B6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000068	98000068	SGVWC B7C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000122	08000122	SGVWC B7E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901436	91901436	SGVWC B8	1313	571	432	635	1022	1030	1224	1437	2080	1200	604	894	1524	712	81.4	988	1630
1901437	91901437	SGVWC B9	530	357	74	494	761	18.5	54.9	750	35.9	0	166	648	564	161	522	731	661
8000099	98000099	SGVWC B9B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900725	01900725	SGVWC G4A	383	279	306	349	362	262	286	333	319	300	263	344	341	314	271	325	313
8000132	08000132	SMWC NEW SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902096	01902096	SMWC NORTH	12.5	6.58	5.2	7.91	1.74	16.9	36.1	54	61.8	30.8	25.1	50.8	63	31.9	26	56.1	62.2
1902085	01902085	SMWC SOUTH	0	0	0	76.2	41.3	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	35.4	35.1	45.3	48.5	43.7	46.7	47.4	49.3	42.8	53	46.4	45.8	45.4	48.1	44.6	47.3	40
8000137	8000137	Sonoco 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901679	01901679	SOUTH PASADENA GRAVES 2	110	43.7	10.4	28.8	149	192	83.3	141	155	128	140	174	172	155	192	389	517
1901681	01901681	SOUTH PASADENA WILSON 2	400	151	111	129	175	16.3	2.49	151	290	62.5	8.23	173	290	33.3	0	62.7	169
1901682	01901682	SOUTH PASADENA WILSON 3	756	712	558	726	767	636	633	752	767	716	691	754	747	736	717	730	745
1903086	01903086	SOUTH PASADENA WILSON 4	241	108	88	154	345	181	264	338	377	106	42.5	279	388	137	18.2	221	292
8000048	08000048	SSWC 10	70.2	98.9	319	252	747	251	272	320	478	152	200	421	792	185	80.2	404	659
8000157	08000157	SSWC 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900026	01900026	SSWC 8	4.48	0	0	9.2	5.83	0	0.16	0	0	0	0	192	153	273	377	636	274
1902792	01902792	SSWC 9	706	248	70.5	229	230	198	267	578	550	72.5	225	292	129	0	0.18	0.09	2.84
41901605	41901605	SWS 101W1	172	50.2	0	0	84.1	0	0	88.1	183	23.5	0.1	350	146	80.1	145	554	123
1901606	01901606	SWS 102W2	425	114	0	431	471	30.1	220	466	454	142	1.22	438	0	105	0	0	0
41901607	41901607	SWS 103W1	108	43.2	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	396	380	355	359	343	384	289	293	346	293	162	292	362	312	315	277	314
1901612	01901612	SWS 113W1	125	75.6	60.8	159	158	25.1	0	42.9	122	8.57	8.1	12.2	11.8	0.02	0.46	0	0
1901613	01901613	SWS 114W1	177	87	3.66	86.3	131	9.67	52.4	149	170	57.2	5.53	134	168	163	156	164	130
1901615	01901615	SWS 120W1	152	97.3	29.7	29.4	79.4	65.2	99.1	157	157	137	136	144	7.01	0.36	0	0	0.01
8000181	08000181	SWS 121W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901616	01901616	SWS 122W1	169	39	2.27	6.73	5.05	0	5.87	0	33.9	0	0	0.17	0	0.99	0	0	0
1901618	01901618	SWS 124W1	188	86	6.82	122	181	51.4	221	225	209	59	181	210	9.69	0.79	57.4	0	0.03
8000087	08000087	SWS 125W2	0	0	0	227	441	448	434	400	386	268	290	342	375	357	322	394	377
8000092	08000092	SWS 126W2	0	0	0	0	0	0	0	42.5	423	471	358	368	389	130	303	423	423
1901622	01901622	SWS 133W1	148	119	19	85.7	137	41	112	151	146	79.6	55	106	139	121	59.7	151	169
1901623	01901623	SWS 134W1	175	47.7	0	58.3	175	61.2	146	217	213	112	186	179	169	143	158	143	102
1901624	01901624	SWS 135W1	0.21	0	0	0	0	0	0	0	108	0.09	0.13	3.3	6.81	0.24	0.25	0	0
1901598	01901598	SWS 139W1	148	5.4	31.6	9.35	51.4	53.1	65.4	63.8	305	101	99.3	310	750	495	80.3	281	327
1901599	01901599	SWS 139W2	708	631	355	492	939	566	387	996	955	883	708	870	1046	1001	747	796	110
8000069	08000069	SWS 139W4	1362	1257	1253	1292	1210	1040	905	1003	909	822	718	886	799	592	261	1165	1097
8000095	08000095	SWS 139W5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	430	1397
8000152	08000152	SWS 139W6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1900719	61900719	SGVWC B5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000112	08000112	SGVWC B5C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000160	08000160	SGVWC B5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900721	71900721	SGVWC B6B - CAPPED	127	135	398	253	174	329	245	144	256	285	180	86.1	25	0	13	65	95.1
8000084	78000084	SGVWC B6B2	356	317	450	58.3	34.6	343	180	42.4	75.5	52.7	119	42	8.48	0	0	0	0
1903093	71903093	SGVWC B6C	758	665	367	852	763	620	843	475	787	777	732	874	278	0.01	370	748	539
8000098	78000098	SGVWC B6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000068	98000068	SGVWC B7C	0	0	0	635	189	86.8	431	540	193	154	518	562	312	271	381	502	336
8000122	08000122	SGVWC B7E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901436	91901436	SGVWC B8	662	99.6	879	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	476	558	691	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	0	0	0	0	0	0	0	562	360	622	618	590	565	546	520	509	489
1900725	01900725	SGVWC G4A	286	252	291	277	223	205	262	266	234	252	269	255	267	254	252	235	220
8000132	08000132	SMWC NEW SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902096	01902096	SMWC NORTH	36.2	32.7	33.2	44.5	30.4	30.4	40.3	45.7	30.7	27.3	0	54.7	36.5	24.6	36.5	45.5	30.4
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	40.1	0	0	0	0	0	0
1902971	01902971	SONOCO 02	36.3	36.6	35.4	36.3	34.9	48.8	39.7	31.8	32.3	26.4	35	28	27.1	26.7	34.3	32	26
8000137	8000137	Sonoco 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901679	01901679	SOUTH PASADENA GRAVES 2	80.8	109	275	393	184	225	365	341	114	138	370	325	200	157	277	273	153
1901681	01901681	SOUTH PASADENA WILSON 2	68.4	51	97.3	154	36.2	33.6	61	132	50.8	30.7	131	103	46	9	50.5	194	106
1901682	01901682	SOUTH PASADENA WILSON 3	597	583	701	689	633	584	634	672	630	582	654	643	639	621	616	587	600
1903086	01903086	SOUTH PASADENA WILSON 4	185	213	362	325	157	176	275	398	325	184	211	357	323	189	262	414	346
8000048	08000048	SSWC 10	410	484	703	769	423	290	486	712	499	358	595	711	727	108	409	580	382
8000157	08000157	SSWC 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900026	01900026	SSWC 8	29	7.1	29.5	8.46	14.7	3.53	11	11.3	5.48	1.47	16.8	9	2.26	140	3.76	3.62	3.91
1902792	01902792	SSWC 9	74	17.9	213	302	141	147	219	235	80.7	32.8	281	145	242	444	193	410	220
41901605	41901605	SWS 101W1	3.12	0	101	103	2.35	33.9	50	175	31.9	6.92	0	0.04	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	287	291	266	262	158	236	234	337	62.5	33	396	402	398	381	379	230	219
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	1.58	68.6	140	122	14.9	47.7	96.9	128	138	136	143	138	103	16.3	78.9	145	156
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	10.4	0	0	0	0	0
8000087	08000087	SWS 125W2	372	139	216	220	35.8	95.8	95.7	278	57.2	0.04	257	317	10.3	0	184	279	114
8000092	08000092	SWS 126W2	351	354	452	441	345	423	411	396	405	410	378	351	391	366	347	325	322
1901622	01901622	SWS 133W1	117	94.1	158	149	104	165	164	152	158	85.9	160	98.5	0	0	0	0	0
1901623	01901623	SWS 134W1	3.12	8.01	118	151	10.4	42.9	5.48	0	0	0	0	4.52	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	373	659	990	130	538	1.3	749	961	683	796	1050	1012	914	666	950	868	799
1901599	01901599	SWS 139W2	0.16	1.92	44.8	0	225	449	588	813	600	457	499	545	461	222	548	542	472
8000069	08000069	SWS 139W4	965	694	1140	1043	547	590	1041	984	1024	968	811	809	888	598	611	941	922
8000095	08000095	SWS 139W5	1395	1343	1373	1421	1299	844	1347	1369	1255	1203	1338	1327	1310	1274	1206	1261	1244
8000152	08000152	SWS 139W6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1900719	61900719	SGVWC B5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000112	08000112	SGVWC B5C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000160	08000160	SGVWC B5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900721	71900721	SGVWC B6B - CAPPED	265	669	628	719	516	519	0	0	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	0	0	0	0	0	0	0	0	0	0	0	0	0.08	951	1228	848	1259
1903093	71903093	SGVWC B6C	409	88	65.6	18.4	246	288	0	0	0	0	0	0	0	286	0	0	0
8000098	78000098	SGVWC B6D	0	0	0	0	0	0	737	679	670	730	588	41.2	0	714	0	0	0
8000068	98000068	SGVWC B7C	180	292	311	127	2.65	198	379	47.2	177	820	910	720	577	666	769	513	500
8000122	08000122	SGVWC B7E	276	239	250	188	129	238	209	116	95.2	53.6	83.4	79.8	44.3	79.9	183	90.9	22.8
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	429	380	405	353	163	434	385	200	146	56.6	180	73.8	145	272	359	65.6	54.7
1900725	01900725	SGVWC G4A	126	113	228	130	17.6	291	382	258	131	287	358	241	76.7	137	295	139	123
8000132	08000132	SMWC NEW SOUTH	0	0	25	19.2	6.21	15.1	48.6	14.7	0	24.2	26.9	13.7	26.5	6.96	0	8.32	27.2
1902096	01902096	SMWC NORTH	24.3	28.2	20.6	11.3	21.4	19.4	0	0.61	20.9	9.85	23.2	15.4	2.89	29.4	41.5	21.4	3.64
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	30.8	31.2	36.7	33.8	34.3	23.4	11.4	13.3	24.8	4.13	29.7	29.8	31	21	18.3	24.2	22.5
8000137	8000137	Sonoco 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901679	01901679	SOUTH PASADENA GRAVES 2	104	201	315	202	27.3	242	259	158	41	250	298	247	167	233	342	147	346
1901681	01901681	SOUTH PASADENA WILSON 2	3.19	6.36	26.9	8.81	20.1	28.5	131	27.4	3.7	49.3	98.4	22.3	1.27	63.5	180	66.9	13
1901682	01901682	SOUTH PASADENA WILSON 3	572	607	713	584	539	614	608	617	604	631	623	638	631	632	614	631	449
1903086	01903086	SOUTH PASADENA WILSON 4	171	193	265	249	173	247	392	226	137	306	411	207	132	241	428	223	13.8
8000048	08000048	SSWC 10	239	21	243	282	97.5	499	405	451	0	5	0	0	39.9	378	697	472	177
8000157	08000157	SSWC 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900026	01900026	SSWC 8	7.47	4.05	2.27	2.65	0.69	3.24	6.24	3.6	2.54	2.92	75	215	142	0.97	4.6	4.14	1.77
1902792	01902792	SSWC 9	163	428	403	314	295	196	263	146	406	549	554	173	348	141	317	139	325
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	268	273	274	279	279	286	292	290	286	296	299	296	288	292	290	288	84.6
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	136	151	152	152	124	150	108	111	142	140	140	140	130	135	134	133	124
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0.1	168	49.1	8.46	0.57	15.1	118	121	95.2	153	63.2	30.2	23.2	47.6	40.7	0.05	0.04
8000092	08000092	SWS 126W2	312	309	306	209	2.7	274	270	210	289	294	319	316	249	235	407	405	337
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	478	444	590	296	98.8	255	326	96.3	9.55	780	513	280	64.2	31.8	204	36.6	0.12
1901599	01901599	SWS 139W2	382	768	997	864	526	947	936	751	335	669	955	946	777	908	1066	722	888
8000069	08000069	SWS 139W4	518	602	784	775	773	771	793	690	746	826	838	805	640	793	783	738	137
8000095	08000095	SWS 139W5	1206	1233	1201	1225	1238	1260	1264	1254	1243	1308	1288	1269	1235	1148	1164	1132	1156
8000152	08000152	SWS 139W6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1900719	61900719	SGVWC B5B	0	0	0	0	0	447	568	721	747	878	623	109	200	145	0	0	0
8000112	08000112	SGVWC B5C	0	0	0	0	0	843	701	530	539	572	473	422	154	424	310	89.7	53.9
8000160	08000160	SGVWC B5D	0	0	0	0	0	0	0	0	0	0	0	136	979	1372	1347	1126	1004
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900721	71900721	SGVWC B6B - CAPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	1212	1305	1390	1242	1454	0	0	0	0	0	0	0	0	0	0	0	0
1903093	71903093	SGVWC B6C	0	0	0	0	0	603	343	213	246	0	0	0	0	0	0	0	0
8000098	78000098	SGVWC B6D	0	0	0	0	0	858	852	872	886	868	758	796	630	11.5	0	0	0
8000068	98000068	SGVWC B7C	854	816	667	641	789	773	368	284	653	697	486	303	558	764	477	384	490
8000122	08000122	SGVWC B7E	84.2	136	48	11	45	0	0	32	106	150	141	77.6	130	137	80.4	122	101
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	203	489	172	41	299	293	134	130	167	343	102	102	63.5	399	204	102	210
1900725	01900725	SGVWC G4A	338	372	196	147	266	339	184	167	308	335	170	112	169	265	145	124	160
8000132	08000132	SMWC NEW SOUTH	39.9	29	26	20	0	35	0	34	43	6.68	0	0	33.7	2.53	0.94	0.75	0.7
1902096	01902096	SMWC NORTH	0.88	18	17	8	40	20	24	0	3	57.6	26.8	21.5	3.96	53.1	25.2	20.7	47.4
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	25.4	33	23.2	24.8	27.5	25.4	29.1	32.6	35.7	0	0	0	0	0	0	0	0
8000137	8000137	Sonoco 02	0	0	0	0	0	0	0	0	0	20	29.9	26.5	24.2	24	13.3	15.1	22.8
1901679	01901679	SOUTH PASADENA GRAVES 2	186	266	270	118	265	342	196	123	320	318	123	16.2	187	342	213	160	229
1901681	01901681	SOUTH PASADENA WILSON 2	47.9	75	5	3	56	104	6	1	63	77.5	42	16.2	28.5	78.5	35.5	33.6	30.2
1901682	01901682	SOUTH PASADENA WILSON 3	599	644	641	639	624	613	630	626	609	599	615	616	634	644	677	634	684
1903086	01903086	SOUTH PASADENA WILSON 4	329	429	179	125	406	464	300	243	444	446	338	106	226	404	304	205	0
8000048	08000048	SSWC 10	75.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000157	08000157	SSWC 13	0	0	0	0	0	0	0	275	490	741	523	293	351	626	629	518	218
1900026	01900026	SSWC 8	12.4	106	122	11	65	111	296	36	24	60.2	14.6	48.6	37.4	311	213	7.65	522
1902792	01902792	SSWC 9	377	652	663	519	612	677	459	368	314	321	225	50.8	85.2	207	19	81.5	45.4
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	103	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000092	08000092	SWS 126W2	321	326	417	237	231	231	289	185	261	306	192	1.92	75.9	11.5	0	0	0
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	6.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901599	01901599	SWS 139W2	912	1102	935	843	1028	1055	509	250	638	720	921	968	962	1015	1017	788	856
8000069	08000069	SWS 139W4	976	1086	865	499	812	718	101	220	786	623	760	187	665	802	824	764	916
8000095	08000095	SWS 139W5	1202	1197	1155	1174	1130	1135	1029	1098	132	882	1294	1345	1306	1354	1326	952	1017
8000152	08000152	SWS 139W6	0	0	0	0	0	0	1247	1071	1332	873	178	232	398	824	97.2	0.76	0.3

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1900719	61900719	SGVWC B5B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000112	08000112	SGVWC B5C	1.07	10.1	3.46	100	6.25	5.17	3.66	13.4	483	680	682	465	658	421	347	605	758
8000160	08000160	SGVWC B5D	1332	1146	888	1113	1065	1079	1017	1173	988	936	945	946	1153	1020	847	817	1198
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900721	71900721	SGVWC B6B - CAPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903093	71903093	SGVWC B6C	0	0	0	0	0	0.11	0	0	0	0	8.51	0	0	0	0	0	0
8000098	78000098	SGVWC B6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000068	98000068	SGVWC B7C	687	587	469	696	795	569	374	497	738	456	305	786	769	471	191	685	771
8000122	08000122	SGVWC B7E	211	143	75.4	165	208	124	21	151	170	79.9	135	140	163	148	158	12.4	161
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	311	290	153	274	357	151	52.4	323	364	174	297	305	314	335	334	267	329
1900725	01900725	SGVWC G4A	239	61.1	33	67.3	87.9	30	12.7	3.55	1.08	0.53	0.62	0.5	1.67	0.31	0.06	0	0
8000132	08000132	SMWC NEW SOUTH	0.03	0	0.06	0	0	38.6	24.3	26.8	0.32	28	30.7	18.6	53	32.2	16	8.75	23
1902096	01902096	SMWC NORTH	47.2	32.4	6.89	34.9	53.7	0.02	7.38	21.1	23.2	3.71	0.48	9.31	0	1.81	19.3	21.8	29.1
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000137	8000137	Sonoco 02	20.2	21.6	24.9	20.8	25.5	24.7	23.5	28.3	32	38.1	24.9	22	13	17.6	19.7	22.6	20.1
1901679	01901679	SOUTH PASADENA GRAVES 2	0	40.6	158	306	335	306	125	237	348	156	0	45	326	108	117	213	236
1901681	01901681	SOUTH PASADENA WILSON 2	30.2	21.7	27	24.7	13.7	13.4	5.69	13.3	0	0	0	0	0	0	0	1.77	0
1901682	01901682	SOUTH PASADENA WILSON 3	639	485	683	662	650	652	577	647	630	309	0	1	511	752	662	775	806
1903086	01903086	SOUTH PASADENA WILSON 4	0	0	0	58.7	146	216	232	404	461	188	0	0	259	228	182	259	420
8000048	08000048	SSWC 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000157	08000157	SSWC 13	566	245	204	284	577	307	568	412	689	620	669	755	712	591	690	729	722
1900026	01900026	SSWC 8	178	350	94.2	269	34	75.9	62.8	228	103	128	25.3	268	484	222	19.2	124	119
1902792	01902792	SSWC 9	256	174	150	101	273	126	141	117	151	18.7	38	67.2	151	86.3	48.9	67.5	464
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	428	654
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000092	08000092	SWS 126W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901599	01901599	SWS 139W2	1028	1014	907	966	1016	988	913	986	426	0	0	0	0	0	0	0	0
8000069	08000069	SWS 139W4	966	796	741	769	747	694	705	682	394	0	0	0	0	0	0	0	0
8000095	08000095	SWS 139W5	1267	1266	1160	914	1144	1125	1111	1147	480	0	0	0	0	0	0	0	0
8000152	08000152	SWS 139W6	0.39	0.21	0.4	0.17	0.11	0.2	0.14	0.18	0.1	0	0.01	0	0.01	0.08	0.01	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1900719	61900719	SGVWC B5B	0	0	0	0	0	0	0	0	0	0	0	0	0	297	602	1162	67.7
8000112	08000112	SGVWC B5C	545	709	687	581	593	654	812	662	489	47.4	84.5	22.8	1.57	254	0.38	0.52	0
8000160	08000160	SGVWC B5D	986	1096	1051	969	937	1059	1206	1136	962	480	185	4.66	1.37	40.7	0	172	0.23
8000205	08000205	SGVWC B5E	0	0	0	0	0	0	0	0	0	0	0	0	0	298	925	450	75.1
1900721	71900721	SGVWC B6B - CAPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903093	71903093	SGVWC B6C	0	0	125	80.6	167	142	78.2	702	607	508	4.45	1.43	0.31	0.15	0.35	0.93	0.47
8000098	78000098	SGVWC B6D	0	0	72.3	106	164	169	101	700	816	564	7.49	1.79	0.37	0.17	0.38	1.24	1.63
8000068	98000068	SGVWC B7C	627	350	576	718	627	727	862	750	612	725	759	912	517	476	405	589	427
8000122	08000122	SGVWC B7E	125	178	179	181	78.1	60.5	195	225	220	146	156	237	148	213	97	188	90.3
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	105	248	328	323	105	5.96	259	379	298	43.8	255	351	53.2	0	150	222	176
1900725	01900725	SGVWC G4A	0	0	0	0	0	0	0	0	48.8	110	194	289	212	197	258	288	184
8000132	08000132	SMWC NEW SOUTH	34	32.7	32.5	28.9	13.6	8.54	26.6	21.6	9.33	8.28	15.3	18.7	7.81	10.4	24.1	21.3	12.3
1902096	01902096	SMWC NORTH	0	2.78	0.06	17.6	0	3.12	29.9	36	16.7	15	29.9	32.3	22.8	23.4	29	20.1	12.7
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000137	8000137	Sonoco 02	20.6	20.2	21.3	23	22.5	24.6	23	24.9	28.6	27.4	27.7	26.1	27.5	29.6	31.1	35.6	35.5
1901679	01901679	SOUTH PASADENA GRAVES 2	90.9	74	165	216	74.8	44.4	148	273	202	86.7	140	281	198	127	249	192	0
1901681	01901681	SOUTH PASADENA WILSON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901682	01901682	SOUTH PASADENA WILSON 3	799	770	790	796	783	716	452	802	797	777	804	810	757	736	788	793	789
1903086	01903086	SOUTH PASADENA WILSON 4	284	154	363	415	200	44.2	309	414	189	91.6	232	415	343	229	331	406	320
8000048	08000048	SSWC 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000157	08000157	SSWC 13	736	727	687	730	531	351	375	217	111	5.94	25.6	299	94.1	174	136	326	30.3
1900026	01900026	SSWC 8	146	37.2	262	302	199	105	348	267	434	178	380	285	486	448	460	218	488
1902792	01902792	SSWC 9	27.9	54.2	105	128	106	211	251	488	221	399	230	460	238	276	263	513	222
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	911	893	915	891	861	899	980	982	947	941	983	980	962	919	892	870	856
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000092	08000092	SWS 126W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901599	01901599	SWS 139W2	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000069	08000069	SWS 139W4	0	0	0	0	0	0	0	0	0	0	78.9	0	0	0	0	230	302
8000095	08000095	SWS 139W5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000152	08000152	SWS 139W6	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1900719	61900719	SGVWC B5B	1123	1090	1139	876	726	889	1097	1096	1100	759	1253	1225	1155	1133	1234	1222	1233
8000112	08000112	SGVWC B5C	0.34	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000160	08000160	SGVWC B5D	0.77	109	46.5	270	381	287	13.4	4.09	6.78	431	91.8	2.45	784	38.3	6.68	11.4	206
8000205	08000205	SGVWC B5E	1319	1198	1296	1159	1122	1258	1203	1183	1190	1482	1043	1091	266	1695	1373	1378	1082
1900721	71900721	SGVWC B6B - CAPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903093	71903093	SGVWC B6C	0.09	0.08	0.23	0.11	0.16	0.14	0.09	0.14	0.1	0.06	0.03	0.04	0.02	0.12	0.06	0.2	0.14
8000098	78000098	SGVWC B6D	0.06	0.13	0.52	0.16	0.36	0.24	0.17	0.34	0.16	0.4	0.12	0.14	0.26	0.25	0.2	0.32	0.25
8000068	98000068	SGVWC B7C	313	433	688	623	467	560	637	275	197	335	441	252	154	350	580	242	320
8000122	08000122	SGVWC B7E	47.9	209	162	110	126	153	203	129	119	151	184	48.9	4.99	13.5	135	64.3	61
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	31.8	258	216	129	152	221	284	194	136	219	292	88.4	23.3	147	231	92.2	120
1900725	01900725	SGVWC G4A	138	264	210	118	57.4	65.5	97.3	45.5	25.4	51.9	71	14.4	18.1	44.8	55	35	35.7
8000132	08000132	SMWC NEW SOUTH	14.3	20	19	16.3	9.55	10.4	19.3	11.4	9.31	16.8	19.3	12.9	10.7	15.4	25.3	12.9	12.8
1902096	01902096	SMWC NORTH	15.4	22.7	20.9	18.8	15.7	10.7	35.9	11.8	10.6	18.8	21.7	13.4	11.4	20.6	23.4	14.6	15.1
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000137	8000137	Sonoco 02	30.5	34.3	36.8	31.4	33.5	30.9	33.8	34	38.4	38.1	37.2	36.6	39	42.1	42.9	38.8	43.4
1901679	01901679	SOUTH PASADENA GRAVES 2	0	6.4	146	165	113	142	270	132	75.5	154	211	99.3	85.4	127	190	99.3	98.9
1901681	01901681	SOUTH PASADENA WILSON 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901682	01901682	SOUTH PASADENA WILSON 3	692	800	802	800	743	788	792	780	700	804	806	729	655	768	822	740	741
1903086	01903086	SOUTH PASADENA WILSON 4	206	398	420	290	130	359	434	231	87.6	253	388	159	98.6	228	378	135	101
8000048	08000048	SSWC 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000157	08000157	SSWC 13	4	152	469	112	12.7	34.3	238	266	42.6	47.6	232	599	0.73	334	597	486	446
1900026	01900026	SSWC 8	211	471	185	437	203	183	236	362	347	450	354	81	211	343	347	241	165
1902792	01902792	SSWC 9	452	205	265	212	464	515	477	209	322	247	290	1.34	357	222	165	35.6	125
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	758	814	793	311	136	625	793	396	62.4	577	857	816	338	757	942	731	282
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000092	08000092	SWS 126W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901599	01901599	SWS 139W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000069	08000069	SWS 139W4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000095	08000095	SWS 139W5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000152	08000152	SWS 139W6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1900719	61900719	SGVWC B5B	1267	1258	1258	982	1197	1169	906	1094	1072
8000112	08000112	SGVWC B5C	0	0	0	0	0	0	0	0	0
8000160	08000160	SGVWC B5D	109	15	7.4	211	10.2	23	218	119	27.3
8000205	08000205	SGVWC B5E	1670	1331	1337	1193	1718	1212	1192	1122	1446
1900721	71900721	SGVWC B6B - CAPPED	0	0	0	0	0	0	0	0	0
8000084	78000084	SGVWC B6B2	0	0	0	0	0	0	0	0	0
1903093	71903093	SGVWC B6C	0.09	0	0	0	0.08	0.15	0	0	0.05
8000098	78000098	SGVWC B6D	0.15	0.07	0.04	0.13	0.15	0.2	0	0	0.06
8000068	98000068	SGVWC B7C	389	411	147	195	535	491	32.8	125	600
8000122	08000122	SGVWC B7E	119	121	57.4	12.5	5.98	118	140	114	159
1901436	91901436	SGVWC B8	0	0	0	0	0	0	0	0	0
1901437	91901437	SGVWC B9	0	0	0	0	0	0	0	0	0
8000099	98000099	SGVWC B9B	154	166	72.7	83.8	247	228	238	164	231
1900725	01900725	SGVWC G4A	59	54.3	46.6	43	56.7	10.1	0	27.6	93.9
8000132	08000132	SMWC NEW SOUTH	17.2	23.1	12.8	14.4	15	8.25	12.4	7	17
1902096	01902096	SMWC NORTH	19.5	26.5	15.2	19.4	18.4	25.9	16.4	9.61	19.3
1902085	01902085	SMWC SOUTH	0	0	0	0	0	0	0	0	0
1902971	01902971	SONOCO 02	0	0	0	0	0	50.4	51.7	47.8	45.4
8000137	8000137	Sonoco 02	42.3	41.8	43.5	44	44.4	0	0	0	0
1901679	01901679	SOUTH PASADENA GRAVES 2	103	174	71.8	107	56.2	148	67	66.3	67.5
1901681	01901681	SOUTH PASADENA WILSON 2	0	0	0	0	0	0	0	0	0
1901682	01901682	SOUTH PASADENA WILSON 3	783	815	755	551	687	800	647	467	649
1903086	01903086	SOUTH PASADENA WILSON 4	230	428	205	75.7	426	434	326	393	397
8000048	08000048	SSWC 10	0	0	0	0	0	0	0	0	0
8000157	08000157	SSWC 13	229	472	540	666	396	537	601	416	529
1900026	01900026	SSWC 8	699	520	9.95	29.7	44.6	116	17.3	34.7	82.6
1902792	01902792	SSWC 9	0.31	209	283	36	232	195	3.22	48	61.6
41901605	41901605	SWS 101W1	0	0	0	0	0	0	0	0	0
1901606	01901606	SWS 102W2	0	0	0	0	0	0	0	0	0
41901607	41901607	SWS 103W1	0	0	0	0	0	0	0	0	0
1901608	01901608	SWS 105W1	0	0	0	0	0	0	0	0	0
1901612	01901612	SWS 113W1	0	0	0	0	0	0	0	0	0
1901613	01901613	SWS 114W1	0	0	0	0	0	0	0	0	0
1901615	01901615	SWS 120W1	0	0	0	0	0	0	0	0	0
8000181	08000181	SWS 121W1	726	888	672	515	810	792	752	697	735
1901616	01901616	SWS 122W1	0	0	0	0	0	0	0	0	0
1901618	01901618	SWS 124W1	0	0	0	0	0	0	0	0	0
8000087	08000087	SWS 125W2	0	0	0	0	0	0	0	0	0
8000092	08000092	SWS 126W2	0	0	0	0	0	0	0	0	0
1901622	01901622	SWS 133W1	0	0	0	0	0	0	0	0	0
1901623	01901623	SWS 134W1	0	0	0	0	0	0	0	0	0
1901624	01901624	SWS 135W1	0	0	0	0	0	0	0	0	0
1901598	01901598	SWS 139W1	0	0	0	0	0	0	0	0	0
1901599	01901599	SWS 139W2	0	0	0	0	0	0	0	0	0
8000069	08000069	SWS 139W4	0	0	0	0	0	0	0	0	0
8000095	08000095	SWS 139W5	0	0	0	0	0	0	0	0	0
8000152	08000152	SWS 139W6	0	0	0	0	0	0	0	0	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1982/Q3	1982/Q4	1983/Q1	1983/Q2	1983/Q3	1983/Q4	1984/Q1	1984/Q2	1984/Q3	1984/Q4	1985/Q1	1985/Q2	1985/Q3	1985/Q4	1986/Q1	1986/Q2	1986/Q3
1903067	01903067	SWS 140W3	40.7	27.3	33.5	16.7	267	0	93.6	158	264	93.5	0.26	0	156	187	150	181	264
8000093	08000093	SWS 140W4	0	0	0	0	0	0	0	0	0	0	0	0	1125	972	927	946	1025
8000145	08000145	SWS 140W5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000183	08000183	SWS 142W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901596	01901596	SWS 147W1	78.2	1.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	1091	882	881	991	1078	924	1109	942	1007	987	965	995	916	0	0	889	933
1901604	01901604	SWS 148W1	162	166	18.5	90.4	153	18.2	80.6	151	70	0	0	70.2	136	70.7	47.2	117	131
1902519	01902519	SWS 150W1	201	85.5	0.68	87.1	191	60.3	177	232	220	234	225	192	204	206	203	192	126
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	93.6	41.4	28.2	56.7	90.5	42.6	61.6	140	146	97.6	125	143	6.87	0.74	0	0	0
1902819	31902819	SWS 155W1	0.62	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	141	85.5	46.2	136	134	102	158	180	179	171	166	162	7.16	0.01	0.04	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	387	512	122	470	263	0	175	592	571	365	38.8	548	521	557	499	543	335
1901433	11901433	SWS 201W4	538	188	603	657	846	714	966	932	570	682	776	570	656	893	94.7	554	599
1901432	01901432	SWS 201W5	442	95.4	55.6	0	595	238	10.4	117	628	328	0	39	219	381	0	36.4	362
1901434	01901434	SWS 201W6	935	871	825	837	634	806	738	588	426	457	1092	995	1057	77.8	0	414	1007
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	500	474	0	185	680	48.1	181	574	624	115	1.26	88.5	99.6	647	604	678	598
1900001	01900001	TEXACO 14	31.8	5.64	9.21	18.7	28	8.32	9.07	26.9	24.1	9.81	7.35	19.7	27.2	10.5	5.92	28.2	23.1
1900038	11900038	TRANSIT MIX 2	151	123	119	165	155	153	154	142	162	145	180	205	207	205	209	254	251
1900106	01900106	UNITED ROCK IRW 1	38.7	37.4	36	37.8	48.9	62.8	0	0	0	63.2	58.3	80.8	91.4	39.3	60.1	86.9	96.8
1903062	01903062	UNITED ROCK IRW 2	275	178	100	181	208	181	318	328	342	120	82.6	117	206	524	253	125	120
1900034	01900034	VCWD ARROW	0.04	0	5.68	4.48	0.18	0	0	1.84	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	39.4	0	0	0.42	0.18	0	0	0.28	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	300	78.3	13.8	20.4	131	217	376	231	273	220	317	297	292	273	151	56.9	244
1900032	01900032	VCWD E NIXON	153	187	22.1	465	991	998	325	543	935	663	686	489	778	0	0	513	1174
1900031	01900031	VCWD PADDY LN	539	8.71	3.1	135	470	141	81.9	469	538	75.1	13.6	291	139	120	283	0	43.6
8000039	08000039	VCWD PALM	79.7	0	0.91	1.25	1.67	0.01	6.61	3.64	0	0	0.08	2.75	26.3	0	0	0	0
8000185	08000185	VCWD SA1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000186	08000186	VCWD SA1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	140	74.8	83.9	99.5	169	121	64.3	58	258	82.4	0.21	127	37.5	102	0	0	0
1902356	01902356	VCWD W NIXON	1087	1109	1088	877	536	13.2	747	1016	989	552	187	661	1069	1134	1083	701	1011
1902970	01902970	VENTURE LIMITED	8.8	1.65	1.14	9.28	2.4	2.54	4.04	9.03	0	2.08	1.92	7.53	0.21	3.32	1.8	14.9	0.42
8000051	08000051	VHWC 1	283	89	35.9	174	179	95.4	166	336	289	168	190	359	368	240	70.9	164	8.37
1900363	01900363	VVMWC 1	189	185	190	261	323	210	228	322	347	228	211	310	328	241	219	277	271
1900364	01900364	VVMWC 2	115	22.4	0.95	1.6	4.72	1.08	1.5	8.12	21.8	1.12	0.67	11.5	28.5	5.42	3.36	38.6	63.3
1900365	01900365	VVMWC 3	4.54	4.76	0.01	0.04	0.33	0.02	0.01	0.15	0.41	0	0.02	0.12	0.02	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	1070	549	435	215	1.06	0	0	0	0.27	0	0	0	587	1167	673	1270	1322
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	23	0	0	0.76	0.03	0	0	0
1901749	01901749	WHITTIER 13	206	268	52	60.7	490	0.08	162	293	483	209	68.5	173	356	107	0	206	382
1909774	01909774	WHITTIER 14	575	46	28.2	131	188	50.2	101	541	469	39.7	60	314	29.8	58.1	237	579	226
8000071	08000071	WHITTIER 15	0	245	756	1441	1807	1121	1222	1741	1826	1319	674	1446	952	61	122	258	167
8000110	08000110	WHITTIER 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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APPENDIX B
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Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
1903067	01903067	SWS 140W3	17	25	208	238	31.1	74.1	156	248	30.5	8.37	56	141	1.7	0	52	267	71
8000093	08000093	SWS 140W4	308	400	888	906	255	787	936	1285	324	178	714	1063	112	0	446	1155	574
8000145	08000145	SWS 140W5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000183	08000183	SWS 142W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	884	588	777	1523	1401	1087	671	80.1	790	282	858	1231	1183	1035	966	937	912
1901604	01901604	SWS 148W1	1.31	4.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	38.8	17.5	0	0	0	18	0	0	0	12.6	0.04	0	7.26	83.5	0.11
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	451	281	273	276	258	489	397	285	232	275	248	294	248	260	423	491	341
1901433	11901433	SWS 201W4	641	545	584	626	398	45.9	212	398	240	324	462	765	690	502	334	509	124
1901432	01901432	SWS 201W5	747	331	745	801	585	300	359	571	601	501	531	459	475	383	481	393	598
1901434	01901434	SWS 201W6	92.6	764	977	848	232	460	541	955	876	759	673	826	631	612	679	836	971
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	640	307	214	641	169	304	634	680	538	119	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	31.8	7.24	32.6	29	11.1	6.72	17.5	24.9	10.5	6.37	16.9	30.5	8.24	7.6	13	21.9	13.9
1900038	11900038	TRANSIT MIX 2	243	243	245	229	234	228	219	244	255	245	258	249	229	213	209	263	200
1900106	01900106	UNITED ROCK IRW 1	94.4	86	107	113	127	98.9	105	167	97.4	80.9	97.1	91.3	92.8	87.5	121	17.7	190
1903062	01903062	UNITED ROCK IRW 2	167	168	162	153	156	126	226	176	132	130	199	96.3	179	121	15.1	8.08	149
1900034	01900034	VCWD ARROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.27	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	217	357	256	522	395	435	481	511	413	405	478	565	757	208	1.15	1.29	210
1900032	01900032	VCWD E NIXON	104	0	883	1166	706	0.56	503	1067	379	115	487	414	0	94.7	1336	1332	679
1900031	01900031	VCWD PADDY LN	47.2	1.71	0.23	0.2	0.93	0.25	2.02	0.27	0.18	0.19	0.17	3.2	0.21	0.21	0.48	0.14	0.24
8000039	08000039	VCWD PALM	0	0	31.4	0.41	0.23	0	0	0	0	0	0	0	0.07	0	0	0	0.04
8000185	08000185	VCWD SA1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000186	08000186	VCWD SA1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	0	12	148	101	46.3	47.1	124	31.1	22.1	4.26	266	263	17	0.21	0.13	89.8	451
1902356	01902356	VCWD W NIXON	1082	1119	956	735	452	1302	1261	1234	1205	1132	1166	1212	582	647	617	739	454
1902970	01902970	VENTURE LIMITED	0	2.56	3.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	208	231	356	240	177	195	217	386	245	165	235	249	68.8	241	184	470	477
1900363	01900363	VVMWC 1	235	210	304	346	232	212	261	279	202	143	237	245	194	166	195	227	198
1900364	01900364	VVMWC 2	4.08	12.5	23.3	19	3.22	2.12	8.5	14.4	1.82	3.37	5.74	29	7.08	3.74	10.7	18.7	1.63
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	1432	888	675	927	1023	1472	1403	1410	968	1003	1101	903	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0.07	0	0.31	0.28	0.3	0.22	0.22	5.89	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	291	266	222	221	221	390	172	0	0	163	353	448	277	72.7	197	426	313
1909774	01909774	WHITTIER 14	252	61.6	273	249	221	48	314	266	297	175	165	392	152	55	356	340	85.2
8000071	08000071	WHITTIER 15	3.6	592	1063	487	150	0.41	0	72.3	0	29.8	0	0	0	235	2.59	0	7.21
8000110	08000110	WHITTIER 16	0	0	0	0	0	0	0	0	0	0	0	0	1832	993	2271	1858	1718

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
1903067	01903067	SWS 140W3	5.87	46	109	17.5	1.49	117	263	37.3	2.25	28.5	194	14.4	4.33	114	186	18.2	13.1
8000093	08000093	SWS 140W4	75.6	365	950	228	14.1	879	1223	297	7.09	769	1289	340	198	809	848	382	422
8000145	08000145	SWS 140W5	0	0	0	0	0	0	0	0	0	0	0	0	0	57.8	1392	638	85.7
8000183	08000183	SWS 142W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	856	838	815	837	788	831	823	817	795	819	787	810	760	703	702	728	700
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	12.3	0.18	1.08	0.95	0	1.3	7.02	0	0	0	11	0.02	0.07	0.02	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	255	336	368	297	229	254	193	249	238	251	399	319	465	390	434	447	414
1901433	11901433	SWS 201W4	138	97.9	121	131	268	554	650	499	699	700	986	614	435	815	922	929	782
1901432	01901432	SWS 201W5	605	596	516	526	442	514	476	415	286	89.7	800	897	808	784	846	818	388
1901434	01901434	SWS 201W6	780	942	1051	1018	870	655	708	662	589	326	1258	976	1010	999	1049	997	940
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	9.68	12.3	19	8.76	5.01	4.22	5.33	7.69	3.02	7.79	8.97	6	4.11	4.43	7.97	4.17	6.23
1900038	11900038	TRANSIT MIX 2	170	172	182	141	129	158	187	117	88	117	129	126	99.8	85.9	206	142	304
1900106	01900106	UNITED ROCK IRW 1	115	64	103	125	62.2	87.1	95.6	78.8	64.7	86.2	166	78.8	69	88.6	94.9	132	56.5
1903062	01903062	UNITED ROCK IRW 2	27.8	394	4.35	4.04	4.48	47.3	16.3	14.3	0	1	0.07	0	0	6.12	12.3	5.31	0
1900034	01900034	VCWD ARROW	0.8	0	0.67	0	67.3	273	2.29	0.54	0	33.6	371	58.2	803	824	936	752	451
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	221	543	313	0	0	0	0	0	52.3	214	4.73	93.1	4.41	53	122	36.8	87.6
1900032	01900032	VCWD E NIXON	0	13.2	616	900	173	1057	1366	906	0	277	1028	50.8	40.9	525	454	610	193
1900031	01900031	VCWD PADDY LN	0.07	0	0	0.09	0.07	0	0.1	0.06	0.03	0	0.67	0.11	0.14	0.18	0.16	0.08	0.11
8000039	08000039	VCWD PALM	0	0	0.09	0.05	0	0	0	0.04	0	0	0	0.09	0.11	0	0	0.06	0
8000185	08000185	VCWD SA1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000186	08000186	VCWD SA1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	198	263	65.1	0	0	0	0	0	6.1	137	64.6	335	81.3	106	335	2.6	52
1902356	01902356	VCWD W NIXON	515	620	467	533	509	370	510	436	574	965	687	1139	692	733	1100	626	718
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	245	29.2	232	8.1	130	217	234	285	86.9	127	217	188	102	369	372	244	82.6
1900363	01900363	VVMWC 1	149	179	211	172	63.4	182	229	64.6	151	218	256	192	102	164	281	140	76.3
1900364	01900364	VVMWC 2	0.63	0.82	3.21	3.58	77	25.8	21.7	105	3.16	12.3	7.88	1.11	62.3	53.8	15.9	54.6	75.9
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	282	203	306	250	192	367	298	316	66.3	361	361	238	174	319	9.93	63.8	0.1
1909774	01909774	WHITTIER 14	41.2	348	137	179	45.1	205	9.21	0	54.8	0	0	0	334	0.08	0	0.02	0.09
8000071	08000071	WHITTIER 15	0	0	0	0	0	252	0	0.17	0	579	580	0.31	0.16	0.31	0.21	9.09	512
8000110	08000110	WHITTIER 16	1215	1346	1774	1422	720	517	835	1127	76.8	23.7	1.14	1205	672	760	28	1.47	0

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
1903067	01903067	SWS 140W3	27	73	11	42	122	193	20	34	220	255	57.4	3.49	124	290	224	217	305
8000093	08000093	SWS 140W4	343	1047	370	105	731	1132	363	296	1088	1084	469	15.4	213	0.01	0	0	0
8000145	08000145	SWS 140W5	864	1172	748	639	1151	1279	1090	914	1286	1268	966	802	1194	1338	1221	1164	1203
8000183	08000183	SWS 142W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	487	698	735	723	696	693	678	665	637	622	628	612	617	623	610	592	593
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	394	412	365	338	417	369	315	215	265	655	382	363	332	441	496	363	485
1901433	11901433	SWS 201W4	919	901	854	697	936	910	894	833	859	903	905	853	617	946	256	1064	1190
1901432	01901432	SWS 201W5	826	748	714	1000	962	939	911	905	882	827	676	1088	1098	1043	942	789	1023
1901434	01901434	SWS 201W6	919	921	906	598	850	1321	1277	1230	1170	1162	1134	1023	960	959	954	918	809
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	4.61	10	6	3	1	2	2	1	2	1.96	2.29	1.12	2.75	5.28	3.99	2.82	2.53
1900038	11900038	TRANSIT MIX 2	220	0	409	216	232	194	170	170	212	281	115	166	264	257	244	216	277
1900106	01900106	UNITED ROCK IRW 1	28.1	75	46	51	53	47	63	56	99	126	79	136	103	169	157	159	177
1903062	01903062	UNITED ROCK IRW 2	15.2	48	41	17	40	47	32	6	7	6.55	1.6	5.77	10.2	3.06	0.87	1.6	1.09
1900034	01900034	VCWD ARROW	534	794	462	153	0	354	228	157	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	115	551	519	115	44.3	0	0	0	0	0
1900027	01900027	VCWD E MAINE	8.3	80	1	60	37	53	49	132	292	287	102	324	253	351	319	460	325
1900032	01900032	VCWD E NIXON	848	631	927	326	1342	999	639	389	1333	1347	1296	174	958	1508	1419	526	1193
1900031	01900031	VCWD PADDY LN	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000039	08000039	VCWD PALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000185	08000185	VCWD SA1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000186	08000186	VCWD SA1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	56.1	298	115	284	318	345	247	281	2	230	7.92	1.7	12.4	16.1	15.7	22	7.54
1902356	01902356	VCWD W NIXON	718	1113	644	857	829	1101	874	859	1000	1052	642	999	751	977	397	978	1033
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	274	349	121	176	528	446	183	70	215	456	264	0	268	484	244	194	319
1900363	01900363	VVMWC 1	85.8	339	148	116	206	244	143	129	216	253	173	131	236	48.9	169	141	179
1900364	01900364	VVMWC 2	49.4	37	59	53	46	47	51	47	45	38.7	29.1	25.5	0	195	44.4	40.5	41.2
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	0.03	0	11	0	178	0	0	1	163	2.61	22.2	32	131	100	49.1	70.6	19
1909774	01909774	WHITTIER 14	255	24.3	0.33	0.04	0	0	0	0.01	496	0	0	0	0	0	0	0	0
8000071	08000071	WHITTIER 15	326	1081	207	217	65	74	2	293	201	37	14.8	81.6	287	297	426	21.7	90.3
8000110	08000110	WHITTIER 16	0.04	50	877	622	517	553	219	225	436	873	472	434	491	108	624	989	402

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
1903067	01903067	SWS 140W3	352	343	155	335	343	332	86.5	274	300	287	72.8	0	0	0	0.13	0	0
8000093	08000093	SWS 140W4	0	0	0	0	0	0	0	339	864	689	357	0	0	0	0	0	0
8000145	08000145	SWS 140W5	1203	1163	892	1123	1142	1121	521	1062	1153	1153	21.1	0	0	0.11	0	0	0
8000183	08000183	SWS 142W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	660	660	642	632	622	581	587	594	585	547	561	549	531	393	646	340	501
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	730	666	657	679	647	636	690	703	771	746	711	687	700	302	730	371	590
1901433	11901433	SWS 201W4	1181	1176	1225	1118	1109	1099	1093	1046	1003	975	955	940	922	954	1057	553	992
1901432	01901432	SWS 201W5	1004	994	294	652	932	865	765	698	853	749	709	823	845	879	930	589	856
1901434	01901434	SWS 201W6	766	852	847	730	771	737	94	998	1052	976	936	886	794	719	629	522	707
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	3.85	2.99	2.46	5.89	24.2	13.6	9.97	20.2	7	7.7	2.39	3.38	4.17	1.85	0.45	1.97	3.24
1900038	11900038	TRANSIT MIX 2	325	266	307	310	322	295	180	280	288	153	173	159	337	199	168	177	166
1900106	01900106	UNITED ROCK IRW 1	210	172	115	123	215	158	141	141	183	134	137	112	242	173	91.1	181	184
1903062	01903062	UNITED ROCK IRW 2	10.2	109	70.4	0	81.4	26.9	0	16	79.1	146	142	29.1	51.9	116	119	71.8	3.38
1900034	01900034	VCWD ARROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	572	502	216	448	710	202	261	256	739	246	397	729	827	677	618	269	0
1900032	01900032	VCWD E NIXON	1428	1408	1382	1380	1386	1394	1186	1350	1345	1341	1052	1262	910	81.6	91.7	531	93.2
1900031	01900031	VCWD PADDY LN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000039	08000039	VCWD PALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000185	08000185	VCWD SA1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000186	08000186	VCWD SA1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	24.6	15.4	1.12	41.3	121	68.8	85.3	20.9	147	7.48	92.5	294	404	377	314	152	0
1902356	01902356	VCWD W NIXON	1052	684	342	1058	1014	648	335	907	1043	945	746	583	930	939	803	769	0
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	490	324	210	388	476	413	243	300	463	330	160	435	591	394	219	271	444
1900363	01900363	VVMWC 1	284	158	149	207	275	194	152	205	231	134	129	199	226	167	166	198	212
1900364	01900364	VVMWC 2	7.25	67	34.1	46.1	21.9	21.3	24.7	39.2	51.4	72.8	65.4	54.4	64.5	42.4	23.8	32.5	78.3
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	50.9	253	105	0	38.8	275	70	71.6	0	0	86.3	434	454	404	426	394	239
1909774	01909774	WHITTIER 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000071	08000071	WHITTIER 15	51.7	882	940	1513	1085	120	367	584	1614	1160	15.4	18.6	1.37	3.63	1.63	2.28	2.93
8000110	08000110	WHITTIER 16	956	850	845	632	1028	1525	1205	1050	1107	838	1492	1351	1581	1396	1281	1466	1338

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
1903067	01903067	SWS 140W3	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000093	08000093	SWS 140W4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000145	08000145	SWS 140W5	267	662	907	1162	961	319	994	1376	555	383	1005	1341	1260	1250	1277	1017	301
8000183	08000183	SWS 142W2	738	1177	1149	1150	1073	1090	1205	1202	1153	998	932	1204	1177	1112	1169	1186	1084
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	484	463	462	474	455	447	467	474	468	476	497	497	495	462	460	440	418
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901430	01901430	SWS 201W2	531	599	596	658	666	615	584	440	439	485	360	305	173	0	0	0	0
1901433	11901433	SWS 201W4	1081	1042	1017	1015	1000	971	1050	1044	1002	988	482	887	899	870	775	725	53.6
1901432	01901432	SWS 201W5	820	761	745	687	740	633	733	699	332	15.3	341	559	639	514	514	472	9.89
1901434	01901434	SWS 201W6	691	673	651	673	610	631	674	389	148	0	0	0	0	0	0	0	0
8000195	8000195	SWS 201W7	0	0	0	0	0	0	0	657	1064	1595	1553	1639	292	250	1192	1236	1223
8000198	8000198	SWS 201W8	0	0	0	0	0	0	0	0	0	0	0	286	1362	1435	1116	1187	1273
8000208	8000208	SWS 201W9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	3.23	2.73	2.51	2.43	1.88	1.73	1.48	1.42	1.05	0.39	0	0	0	0	0	0	0
1900038	11900038	TRANSIT MIX 2	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900106	01900106	UNITED ROCK IRW 1	106	73.9	85.6	109	30.9	42.5	80.2	82.1	55.7	57	93	87.4	76.8	109	57.8	31.1	16.6
1903062	01903062	UNITED ROCK IRW 2	135	58.8	107	49.6	34.6	46.8	35.4	11	44.2	9.62	17.3	88.4	199	94.7	405	361	250
1900034	01900034	VCWD ARROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	0	0.12	530	648	204	12.5	352	881	901	876	871	855	703	797	711	666	598
1900032	01900032	VCWD E NIXON	0	254	776	1036	599	895	1048	1082	295	1.47	387	1289	974	58.8	905	1203	795
1900031	01900031	VCWD PADDY LN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000039	08000039	VCWD PALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000185	08000185	VCWD SA1-1	0	0	0	0	61.2	129	58.6	18	14.4	178	500	863	547	917	662	843	592
8000186	08000186	VCWD SA1-2	0	0	0	0	55.7	297	61	10.7	9.31	88.3	592	845	597	909	866	912	904
1900028	01900028	VCWD W MAINE	0	0.28	160	213	11.9	0.49	69.6	262	214	137	275	302	203	303	298	326	238
1902356	01902356	VCWD W NIXON	0	607	599	721	578	501	866	714	741	695	743	585	314	780	491	542	383
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	518	222	401	522	280	181	299	0	0	0	0	0	0	0	0	0	0
1900363	01900363	VVMWC 1	201	185	231	263	86.3	85.6	79.8	260	178	69.6	192	291	193	72.7	104	170	149
1900364	01900364	VVMWC 2	7.79	12.9	25.9	29.9	94.1	71.6	142	15.3	21.7	99.3	11	3.19	3.29	59.2	61.9	41.3	30.5
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	384	357	252	292	29.6	0	83.3	477	243	126	278	199	7.06	0	56.8	99	349
1909774	01909774	WHITTIER 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000071	08000071	WHITTIER 15	0.79	0	1097	969	271	118	269	867	100	1.64	2.94	8.63	4.86	2.38	1.26	65	1.52
8000110	08000110	WHITTIER 16	1312	1355	1341	1394	1493	1110	1534	1238	1544	197	138	397	125	29	96.2	984	262

Notes:
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APPENDIX B
GOUNDWATER EXTRACTION SIMULATED IN THE MODEL
Baldwin Park Operable Unit
San Gabriel Basin, California

Geosyntec consultants

extraction rates in ac-ft/quarter

Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
1903067	01903067	SWS 140W3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000093	08000093	SWS 140W4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000145	08000145	SWS 140W5	301	746	830	354	72.1	538	961	263	3.79	362	697	281	40.8	630	1031	458	37.3
8000183	08000183	SWS 142W2	781	519	1117	475	1038	695	1130	777	282	973	1103	1107	937	1168	1188	1195	1151
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	308	285	492	204	388	485	486	370	207	475	503	341	152	467	478	471	322
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	508	1329	1425	608	1005	1263	1280	1123	1066	1340	1412	1219	1027	1310	1387	1386	1268
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	0	0	0	0	0	0	430	820	611	5.56	718	558	502	495	952	558	0
1901430	01901430	SWS 201W2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901433	11901433	SWS 201W4	101	486	543	0.72	2.03	0.01	0	0	0.01	0	0.02	0.01	0.17	0	0	0	0
1901432	01901432	SWS 201W5	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901434	01901434	SWS 201W6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000195	8000195	SWS 201W7	1285	913	1205	1120	1102	1130	981	621	322	959	1205	1106	1130	1198	1253	1270	1034
8000198	8000198	SWS 201W8	1242	1046	1114	1076	1109	1128	831	618	785	1084	1137	1053	1098	1096	1115	1145	515
8000208	8000208	SWS 201W9	0	885	1098	1302	1029	1034	1173	1096	812	380	862	608	451	747	549	0	1170
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900038	11900038	TRANSIT MIX 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900106	01900106	UNITED ROCK IRW 1	12.6	32	37.5	40.1	109	78.1	86.5	73.3	92.4	110	125	90.8	78.1	81	84.8	40.8	42
1903062	01903062	UNITED ROCK IRW 2	338	270	309	251	8.53	0	0	0.09	2.23	0	1.84	0	0	0	0	13.3	0.11
1900034	01900034	VCWD ARROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	620	632	521	403	524	575	665	161	0.27	336	615	463	577	584	538	567	530
1900032	01900032	VCWD E NIXON	142	1029	1172	928	28.5	972	457	0	317	1068	1030	621	342	541	1154	385	0
1900031	01900031	VCWD PADDY LN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000039	08000039	VCWD PALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000185	08000185	VCWD SA1-1	763	722	826	530	231	0	0	0	587	676	627	122	659	710	460	92.3	799
8000186	08000186	VCWD SA1-2	885	932	305	909	865	895	889	767	72.5	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	257	193	286	143	315	276	401	99.4	0.18	187	399	286	329	298	275	253	312
1902356	01902356	VCWD W NIXON	667	550	573	537	778	430	823	951	578	503	468	339	257	634	586	513	765
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1900363	01900363	VVMWC 1	0	0	32.4	9.28	0.28	0	19.4	0.47	0	74.6	239	88.5	3.8	0	0	0	0
1900364	01900364	VVMWC 2	131	170	168	125	121	171	168	149	126	109	0	53.1	126	166	176	136	116
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	173	162	225	153	371	108	6.4	0	0	0.22	1.45	0	0	0	0	0.21	0.45
1909774	01909774	WHITTIER 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000071	08000071	WHITTIER 15	1.54	1.75	192	290	0.66	1.25	11.7	0.56	1.45	0.76	1.81	0.96	0.94	1.01	1	1.08	1.4
8000110	08000110	WHITTIER 16	15.4	245	836	1470	1372	712	57.7	32.4	2.17	0.95	0	3.13	0.02	13.5	81.6	0.01	0.01

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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Model Designation	Well ID	Well Name	2012/Q2	2012/Q3	2012/Q4	2013/Q1	2013/Q2	2013/Q3	2013/Q4	2014/Q1	2014/Q2
1903067	01903067	SWS 140W3	0	0	0	0	0	0	0	0	0
8000093	08000093	SWS 140W4	0	0	0	0	0	0	0	0	0
8000145	08000145	SWS 140W5	598	948	547	142	793	555	345	169	606
8000183	08000183	SWS 142W2	1147	1136	1142	1117	1061	1073	1083	990	1041
1901596	01901596	SWS 147W1	0	0	0	0	0	0	0	0	0
8000077	08000077	SWS 147W3	450	483	444	452	477	484	488	473	485
1901604	01901604	SWS 148W1	0	0	0	0	0	0	0	0	0
1902519	01902519	SWS 150W1	0	0	0	0	0	0	0	0	0
1902518	11902518	SWS 151W1	0	0	0	0	0	0	0	0	0
8000207	21902518	SWS 151W2	1317	1368	571	700	1316	1433	1415	1357	1381
1900337	01900337	SWS 152W1 - ABANDONED	0	0	0	0	0	0	0	0	0
1902819	31902819	SWS 155W1	0	0	0	0	0	0	0	0	0
1902763	01902763	SWS 157W1	0	0	0	0	0	0	0	0	0
8000210	8000210	SWS 201W10	23.3	25.4	2.84	29.1	29.4	96.3	880	83.3	89.4
1901430	01901430	SWS 201W2	0	0	0	0	0	0	0	0	0
1901433	11901433	SWS 201W4	0	0	0	0	0	0	0	0	0
1901432	01901432	SWS 201W5	0	0	0	0	0	0	0	0	0
1901434	01901434	SWS 201W6	0	0	0	0	0	0	0	0	0
8000195	8000195	SWS 201W7	1158	1279	1227	1231	1184	1185	1291	1273	1107
8000198	8000198	SWS 201W8	1255	1175	1142	1091	1056	1000	0	778	1037
8000208	8000208	SWS 201W9	326	783	527	145	1279	1506	1303	479	1281
1901627	01901627	SWS 202W1	0	0	0	0	0	0	0	0	0
1900001	01900001	TEXACO 14	0	0	0	0	0	0	0	0	0
1900038	11900038	TRANSIT MIX 2	0	0	0	0	0	0	0	0	0
1900106	01900106	UNITED ROCK IRW 1	43.1	35.4	62.6	51.8	73	90.3	60.3	58.8	42
1903062	01903062	UNITED ROCK IRW 2	0	0	2.02	0	0	0	22.6	0.73	28.5
1900034	01900034	VCWD ARROW	0	0	0	0	0	0	0	0	0
1900035	01900035	VCWD BIG DALTON	0	0	0	0	0	0	0	0	0
1900027	01900027	VCWD E MAINE	549	472	185	603	598	597	592	716	551
1900032	01900032	VCWD E NIXON	439	1077	765	135	516	1036	614	9.07	579
1900031	01900031	VCWD PADDY LN	0	0	0	0	0	0	0	0	0
8000039	08000039	VCWD PALM	0	0	0	0	0	0	0	0	0
8000185	08000185	VCWD SA1-1	654	884	779	689	478	0	0	0	0
8000186	08000186	VCWD SA1-2	127	0	0	0	0	0	0	0	0
1900028	01900028	VCWD W MAINE	308	325	154	270	289	326	72.8	0	237
1902356	01902356	VCWD W NIXON	749	691	568	545	785	557	572	867	789
1902970	01902970	VENTURE LIMITED	0	0	0	0	0	0	0	0	0
8000051	08000051	VHWC 1	0	0	0	0	0	0	0	0	0
1900363	01900363	VVMWC 1	0	0	0	0	0	0	0	0	0
1900364	01900364	VVMWC 2	155	192	145	80.6	155	210	176	140	166
1900365	01900365	VVMWC 3	0	0	0	0	0	0	0	0	0
1901747	01901747	WHITTIER 11 - ABANDONED	0	0	0	0	0	0	0	0	0
1901748	01901748	WHITTIER 12 - ABANDONED	0	0	0	0	0	0	0	0	0
1901749	01901749	WHITTIER 13	0.25	0.08	0.16	0.03	0.05	0.99	0	0	0
1909774	01909774	WHITTIER 14	0	0	0	0	0	0	0	0	0
8000071	08000071	WHITTIER 15	2.12	2.46	7.44	0.49	2.75	2.44	0.74	4.53	435
8000110	08000110	WHITTIER 16	47.7	0.56	37	56.4	990	1343	854	635	1191

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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8000135	08000135	WHITTIER 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000136	08000136	WHITTIER 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901745	01901745	WHITTIER 9 - ABANDONED	786	652	233	215	267	479	458	128	378	373	880	572	931	541	632	246	770
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902951	01902951	WOODLAND FARMS 3	49.3	66.9	23.1	45.1	64.9	41.4	58.3	61.2	64.3	58.2	54.1	59.5	57.2	57.9	55.4	57.2	59.1
1903072	01903072	WOODLAND FARMS 5R	27.1	14	11.9	26.2	30.2	19.1	24.2	33.6	31.4	12.5	21.6	27.3	21.2	10	12.3	20.8	18.4

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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Model Designation	Well ID	Well Name	1986/Q4	1987/Q1	1987/Q2	1987/Q3	1987/Q4	1988/Q1	1988/Q2	1988/Q3	1988/Q4	1989/Q1	1989/Q2	1989/Q3	1989/Q4	1990/Q1	1990/Q2	1990/Q3	1990/Q4
8000135	08000135	WHITTIER 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000136	08000136	WHITTIER 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901745	01901745	WHITTIER 9 - ABANDONED	0.01	92.4	393	1036	379	76.3	588	1030	724	309	920	721	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902951	01902951	WOODLAND FARMS 3	54.4	59.1	52.3	59.5	54.2	51.5	54.1	58.2	46.5	54.3	59.1	56.1	53.2	51.9	54.7	60	55
1903072	01903072	WOODLAND FARMS 5R	15	13.5	24	12.7	4.95	19.6	16.8	14.4	5.77	21.9	31.4	27.6	12.1	18.6	31.2	28.5	16.4

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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Model Designation	Well ID	Well Name	1991/Q1	1991/Q2	1991/Q3	1991/Q4	1992/Q1	1992/Q2	1992/Q3	1992/Q4	1993/Q1	1993/Q2	1993/Q3	1993/Q4	1994/Q1	1994/Q2	1994/Q3	1994/Q4	1995/Q1
8000135	08000135	WHITTIER 17	0	0	0	0	0	384	388	338	344	650	618	0.03	177	378	1366	1007	631
8000136	08000136	WHITTIER 18	0	0	0	0	0	460	779	0.62	547	326	802	504	0.07	613	1221	869	230
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902951	01902951	WOODLAND FARMS 3	56.7	56.7	57.2	50.4	46.9	49.2	54.3	48.9	42.3	36.4	38	45.1	46.9	45.1	41.8	22.7	27.9
1903072	01903072	WOODLAND FARMS 5R	20.2	26.7	17.2	7.59	17.9	22.3	35.8	11.3	18.7	40.8	33	17.9	23.2	28.2	15.1	6.63	18.7

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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Model Designation	Well ID	Well Name	1995/Q2	1995/Q3	1995/Q4	1996/Q1	1996/Q2	1996/Q3	1996/Q4	1997/Q1	1997/Q2	1997/Q3	1997/Q4	1998/Q1	1998/Q2	1998/Q3	1998/Q4	1999/Q1	1999/Q2
8000135	08000135	WHITTIER 17	980	820	641	499	683	871	1033	890	39	741	743	456	744	1314	942	498	1117
8000136	08000136	WHITTIER 18	98.6	634	113	321	393	1250	589	291	1383	1348	1070	606	458	1083	177	161	213
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902951	01902951	WOODLAND FARMS 3	18.9	29	29	27	28	32	24	22	23	31.4	18.2	9.8	15.8	13.7	23.8	12.6	14.5
1903072	01903072	WOODLAND FARMS 5R	17.2	38	11	16	42	28	7	23	33	19.6	9.4	11.5	31	23.2	9.49	12.2	28.9

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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Model Designation	Well ID	Well Name	1999/Q3	1999/Q4	2000/Q1	2000/Q2	2000/Q3	2000/Q4	2001/Q1	2001/Q2	2001/Q3	2001/Q4	2002/Q1	2002/Q2	2002/Q3	2002/Q4	2003/Q1	2003/Q2	2003/Q3
8000135	08000135	WHITTIER 17	1456	357	17.8	21.3	513	160	0.03	17.4	0	0	0	0	0	0.03	0.02	0.01	0
8000136	08000136	WHITTIER 18	20.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	329
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1902951	01902951	WOODLAND FARMS 3	22.7	16.8	9.56	17.6	21.8	15.4	7.1	5.89	10.3	8.35	0	0	0	0	0	0	0
1903072	01903072	WOODLAND FARMS 5R	30.6	12.1	16.3	37.1	26.1	6.24	8.55	30.1	39.4	5.14	15.2	28.8	37	6.32	23.6	30	48.6

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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Model Designation	Well ID	Well Name	2003/Q4	2004/Q1	2004/Q2	2004/Q3	2004/Q4	2005/Q1	2005/Q2	2005/Q3	2005/Q4	2006/Q1	2006/Q2	2006/Q3	2006/Q4	2007/Q1	2007/Q2	2007/Q3	2007/Q4
8000135	08000135	WHITTIER 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000136	08000136	WHITTIER 18	13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	0	0	0	0	0	0	0	0	0	0	0	586	499	581	604	438	272
8000202	EPAEW407	WHITTIER EPA EW4-7	0	0	0	0	0	0	0	0	0	0	0	781	571	582	616	436	484
1902951	01902951	WOODLAND FARMS 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903072	01903072	WOODLAND FARMS 5R	5.35	21.5	37.4	33.4	4.56	10.3	29.6	28.9	8.54	11.8	23	32.3	14.7	15.2	26.9	26	10

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
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Model Designation	Well ID	Well Name	2008/Q1	2008/Q2	2008/Q3	2008/Q4	2009/Q1	2009/Q2	2009/Q3	2009/Q4	2010/Q1	2010/Q2	2010/Q3	2010/Q4	2011/Q1	2011/Q2	2011/Q3	2011/Q4	2012/Q1
8000135	08000135	WHITTIER 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000136	08000136	WHITTIER 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	149	556	550	13.3	1.24	341	845	349	234	492	774	318	20.3	299	689	373	3.18
8000202	EPAEW407	WHITTIER EPA EW4-7	676	596	0	27.4	34.1	518	776	494	667	926	645	550	382	730	259	179	16
1902951	01902951	WOODLAND FARMS 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1903072	01903072	WOODLAND FARMS 5R	18.7	25.8	32.3	20.6	15.7	23.2	41.1	11.4	15.1	36.1	40.2	12	18.4	31.2	29.3	7.24	20.2

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.

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8000135	08000135	WHITTIER 17	0	0	0	0	0	0	0	0	0
8000136	08000136	WHITTIER 18	0	0	0	0	0	0	0	0	0
1901745	01901745	WHITTIER 9 - ABANDONED	0	0	0	0	0	0	0	0	0
8000201	EPAEW406	WHITTIER EPA EW4-6	265	361	267	1.89	59.1	414	439	253	445
8000202	EPAEW407	WHITTIER EPA EW4-7	331	108	11.7	53.1	47.7	1.4	0.99	1.52	3.13
1902951	01902951	WOODLAND FARMS 3	0	0	0	0	0	0	0	0	0
1903072	01903072	WOODLAND FARMS 5R	40.9	55	0	0	100	41.4	11.8	20	38.9

Notes:
Pumping data from WY1982-83 through WY1997-98 were obtained from a project database maintained by Aerojet's consultants.
Pumping data from WY1998-99 through WY2013-14 were obtained from Appendix F of the Annual Reports prepared by the Main San Gabriel Basin Watermaster.