

# Five-Year Water Quality and Supply Plan



Main San Gabriel Basin  
**WATERMASTER**

**2018–19 to  
2022–23**

**DRAFT**

***“To assure that pumping does not lead to further degradation of water quality in the Basin, a Five-Year Water Quality and Supply Plan must be prepared and updated annually by Watermaster...”***

***Section 28 of Watermaster’s Rules and Regulations***

# **Five-Year Water Quality and Supply Plan**

November 2018



Main San Gabriel Basin  
**WATERMASTER**

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# INTRODUCTION

The Main San Gabriel Basin Watermaster (Watermaster) annually prepares and updates this Five-Year Water Quality and Supply Plan (Five-Year Plan) in accordance with the requirements of Section 28 of its Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main San Gabriel Basin (Basin) are protected and improved.

## PURPOSE OF THE FIVE-YEAR PLAN

Many important issues are detailed in the Five-Year Plan, including Watermaster's plans for the following activities:

1. Monitor groundwater supply and quality.
2. Develop projections of future groundwater supply and quality.
3. Ensure adequate supplemental water is available for groundwater replenishment.
4. Review and cooperate on cleanup projects, and provide technical assistance to other agencies.
5. Assure that pumping does not lead to further degradation of water quality in the Basin.
6. Address emerging contaminants in the Basin.
7. Develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (USEPA) plans for its San Gabriel Basin Superfund sites.
8. Continue to perform responsibilities under the Baldwin Park Operable Unit (BPOU) Project Agreement relating to project administration and performance evaluation.

## WATERMASTER BACKGROUND AND HISTORY

The Los Angeles County Superior Court created the Main San Gabriel Basin Watermaster in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. At that time, Watermaster's mission was to generally manage the water supply of the Basin. During the late 1970s and early 1980s, significant concentrations of contaminants were detected in the groundwater Basin. The contamination was caused in part by past practices of local industries that had inappropriately disposed of industrial solvents, as well as by infiltration of nitrates from an earlier agricultural period. Cleanup efforts for industrial contamination were undertaken at the local, state, and federal levels.

### WATERMASTER RECEIVES WATER QUALITY RESPONSIBILITIES

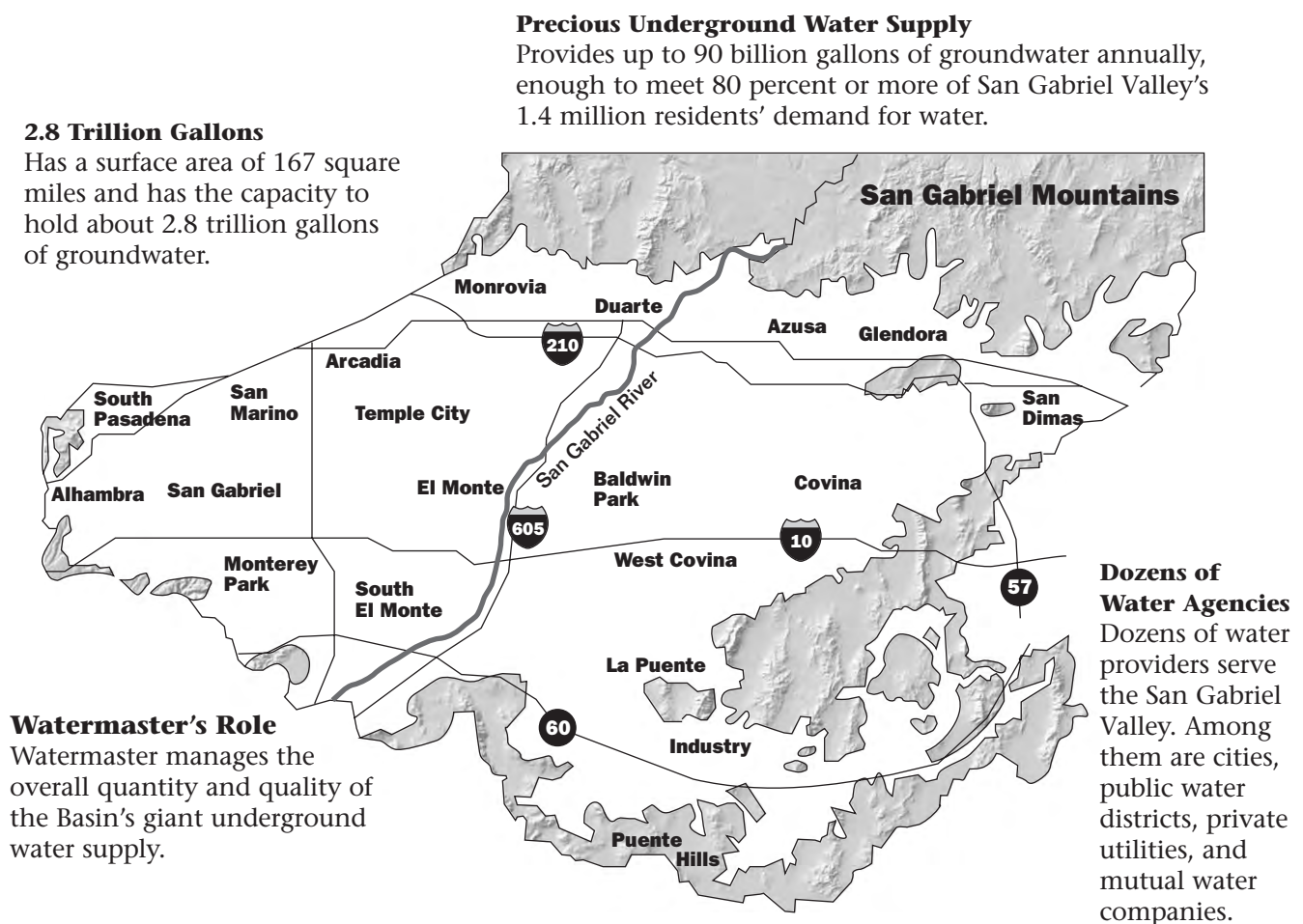
By 1989, local water agencies had adopted a joint resolution concerning water quality issues, which stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a Basin cleanup plan. In 1991, the Los Angeles County Superior Court granted Watermaster the authority to control pumping for water quality purposes. Accordingly, Watermaster added Section 28 to its Rules and Regulations regarding

water quality management. The new responsibilities included developing this Five-Year Water Quality and Supply Plan; updating it annually and submitting it to the California Regional Water Quality Control Board, Los Angeles Region (Regional Board); and making it available for public review by November 1 of each year.

Watermaster adopted Resolution No. 05-14-263, which established a Water Resource Development Assessment (RDA) that was applied to all production during fiscal year 2014–15 and 2015–16. The purpose of the RDA is to establish a fund from which untreated imported water may be purchased and delivered to the Basin. It is intended to create a “reservoir” of water that is available to assist in the management of the Basin in the event untreated water is not available in the future as a result of a short-term statewide emergency.

The ongoing drought led to significant reductions in the quantity of local-stormwater replenishment to the Basin. As a result, during fiscal year 2016–17 Watermaster expanded the RDA Program into the Supplemental Water Stormwater Augmentation Program (RDA II), using the Water Resources Development Assessment.

**Figure 1. AREA COVERED BY MAIN SAN GABRIEL BASIN**



# CURRENT WATER SUPPLY CONDITIONS

Drought conditions have persisted in the San Gabriel Valley for the past two decades. Commencing fiscal year 1998–99, annual rainfall has been below the long-term average annual amount of 18.52 inches in 16 of the past 20 years, including fiscal year 2017–18. Rainfall during fiscal year 2017–18 was 6.85 inches, which is about 40 percent of average. Replenishment of storm runoff was also about 40 percent of average due to below-average rainfall, much of which was absorbed by the San Gabriel River watershed before it could flow into rivers or channels.

Historically, Watermaster diligently managed groundwater supply and groundwater levels through the establishment of the Operating Safe Yield (OSY) and the resulting delivery of untreated imported water to replenish the Basin. Recognizing the persistent lack of stormwater runoff during fiscal year 2016–17, Watermaster and local Producers coordinated the delivery of about 76,000 acre-feet of untreated imported water for groundwater replenishment. At the same time, Watermaster and the local Producers implemented the RDA II on all production during fiscal year 2016–17, to be delivered during fiscal year 2017–18.

The new RDA II utilizes assessment funds to purchase imported replenishment water, as stormwater augmentation, to maintain the Key Well elevation above 180 feet in the event of future severe droughts. In addition, Watermaster and the Upper San Gabriel Valley Municipal Water District (Upper District) entered into an agreement with the Metropolitan Water District of Southern California (MWD) to pre-deliver up to 80,000 acre-feet of untreated imported water to complement the RDA II Program. Collectively, Watermaster coordinated the delivery of about 83,000 acre-feet of untreated water during fiscal year 2017–18. Despite significantly below-average rainfall and stormwater runoff, the groundwater level only decreased one foot during this fiscal year, due to the large imported water deliveries coordinated by Watermaster as well as continued conservation.

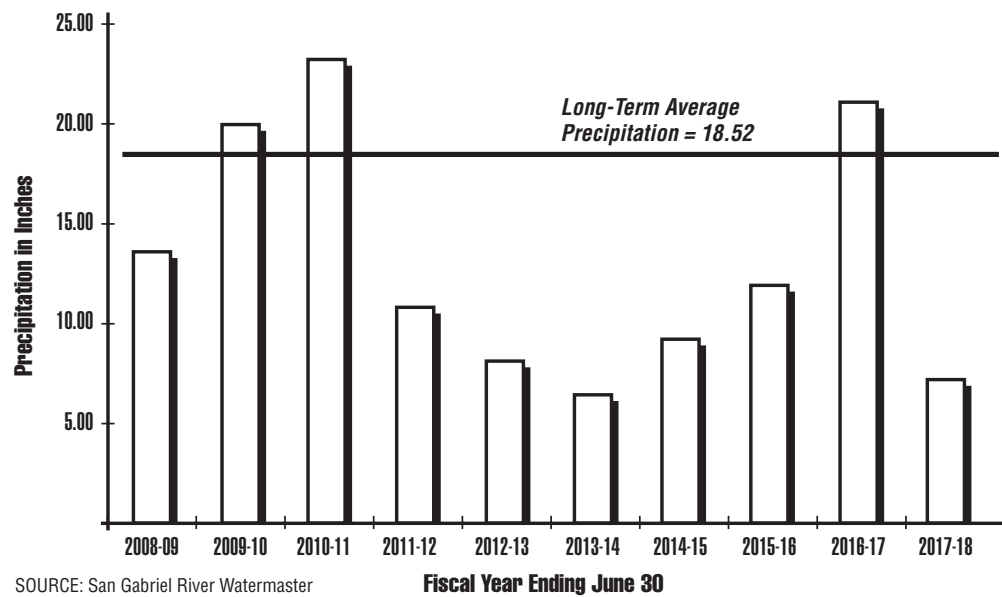
## WATER SUPPLY INFLOWS DURING 2017–18

### VALLEY RECEIVES BELOW-AVERAGE RAINFALL

In 2017–18, the San Gabriel Valley received about 7 inches of rain, which is about 40 percent of the long-term average of 18.52 inches.



**Figure 2. RAINFALL BELOW LONG-TERM AVERAGE**



The long-term average rainfall is 18.52 inches. The rainfall total is made up of an average taken from four stations located in San Dimas, Diamond Bar, El Monte, and Pasadena.

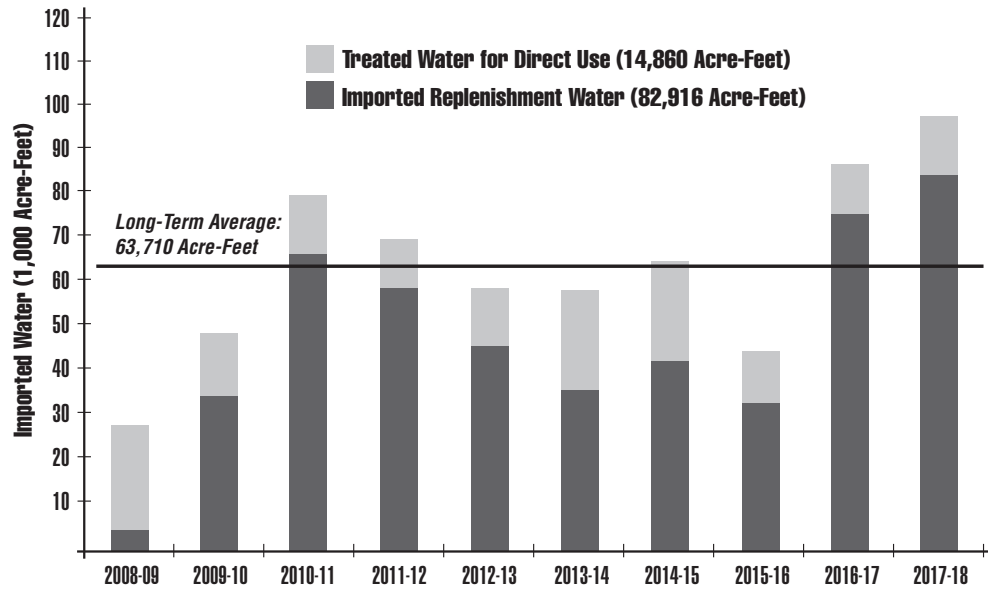
### **LOCAL STORMWATER CAPTURE 40 PERCENT OF LONG-TERM AVERAGE**

Total rainfall over the past seven years has been well below average. As a result of seven straight years of drought conditions, the San Gabriel River watershed was very dry in 2017–18; consequently, the ground soaked up large amounts of stormwater, limiting flows to recharge basins. Thus, stormwater capture was only about 39,000 acre-feet, roughly 40 percent of the long-term average. In addition, as of the end of the fiscal year (June 30, 2018), only about 14,000 acre-feet of local stormwater runoff remained in storage in reservoirs in the San Gabriel Canyon. This stored water is used for groundwater replenishment—representing a potential 1.75-foot increase in Basin water levels to offset decreasing groundwater levels caused by pumping.

### **LOCAL WATER USE BELOW AVERAGE**

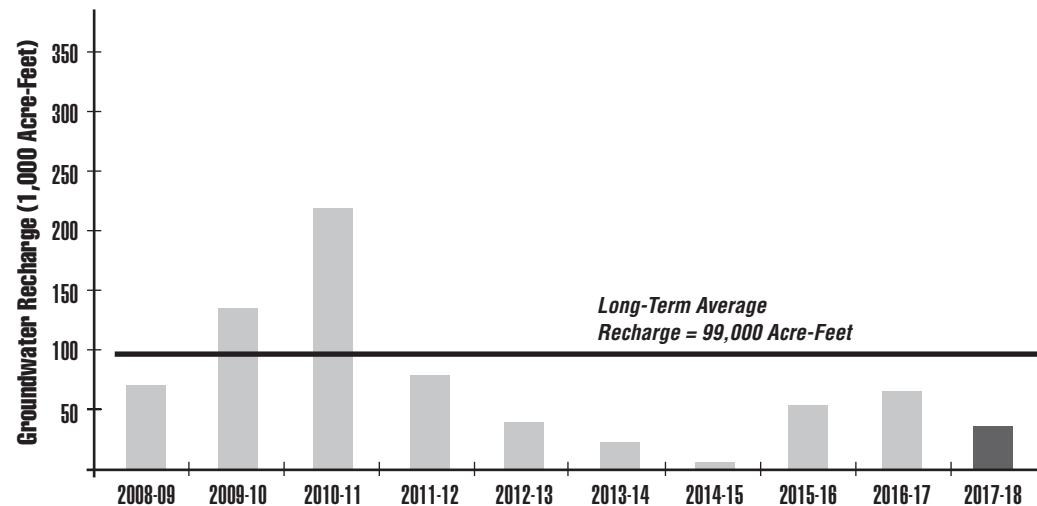
Total water use within the San Gabriel Valley consists of groundwater production, surface water diversions, treated imported water deliveries, and recycled water for irrigation projects. During the previous fiscal year (2016–17), total water use was about 214,000 acre-feet. During fiscal year 2017–18, total water use was about 229,000 acre-feet, consisting of about 197,500 acre-feet of groundwater production, 12,000 acre-feet of treated local surface water, 14,833 acre-feet of treated imported water, and 5,000 acre-feet of recycled water. In recent years, Watermaster has worked with stakeholders to promote retail water conservation, and water use has decreased due to a greater awareness by consumers of the drought conditions and increased water conservation by those consumers. Total water use during fiscal year 2017–18 is about 8 percent lower than the recent 10-year average of about 248,000 acre-feet, and also about 14 percent lower than fiscal year 2013–14, which preceded the governor’s declaration mandating water conservation.

**Figure 3. IMPORTED WATER DELIVERIES ABOVE LONG-TERM AVERAGE**



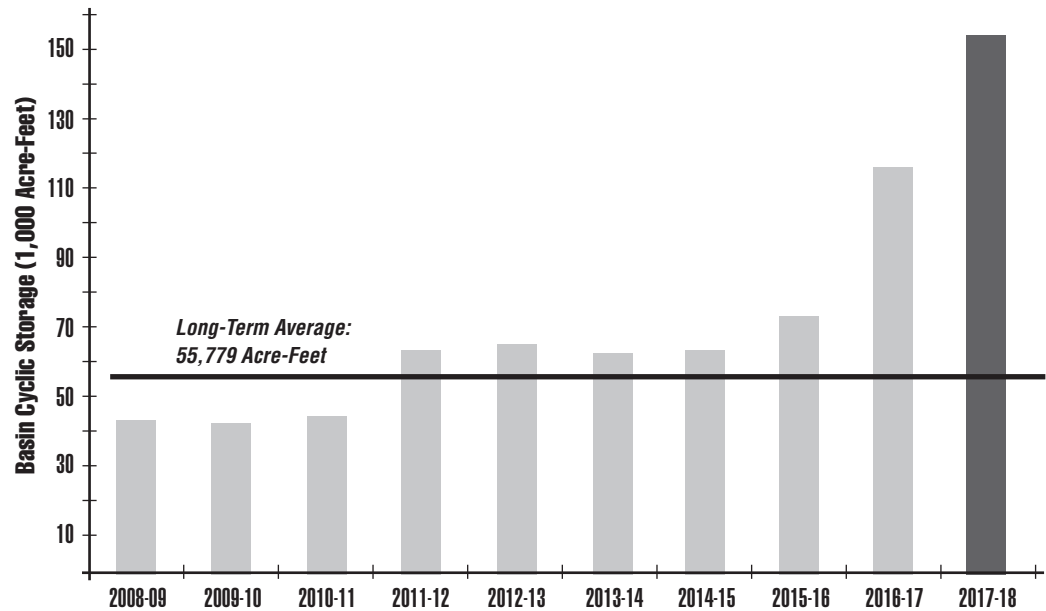
Imported water deliveries (treated and untreated) during 2017–18 totaled about 98,000 acre-feet for direct use and groundwater replenishment. This is about 55 percent higher than the recent 10-year average.

**Figure 4. LOCAL WATER CONSERVED ABOUT 40% OF AVERAGE**



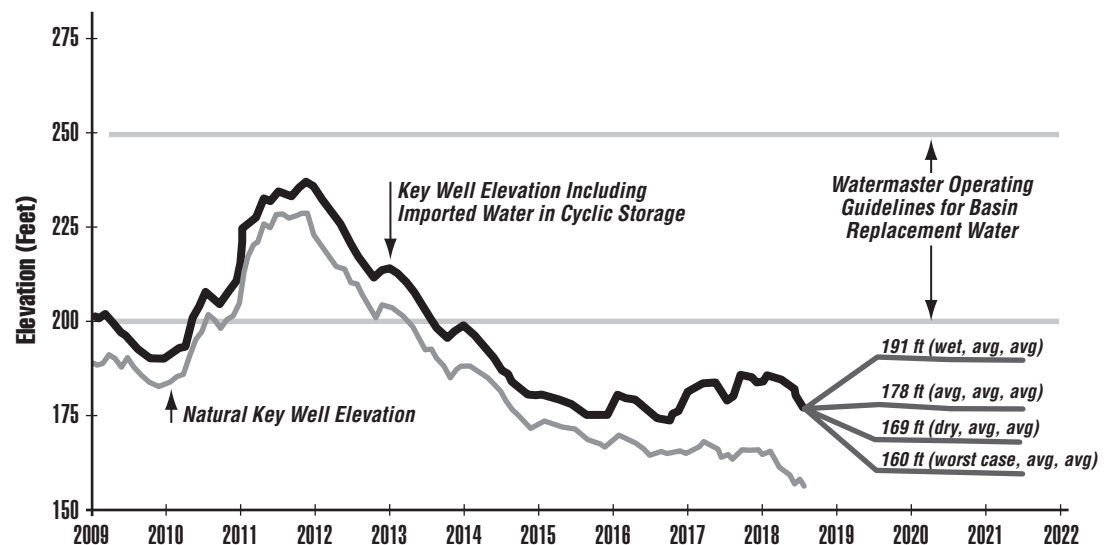
Approximately 39,000 acre-feet of local water was conserved during 2017–18, about 40 percent of the long-term average of 99,000 acre-feet.

Figure 5. CYCLIC STORAGE INCREASED



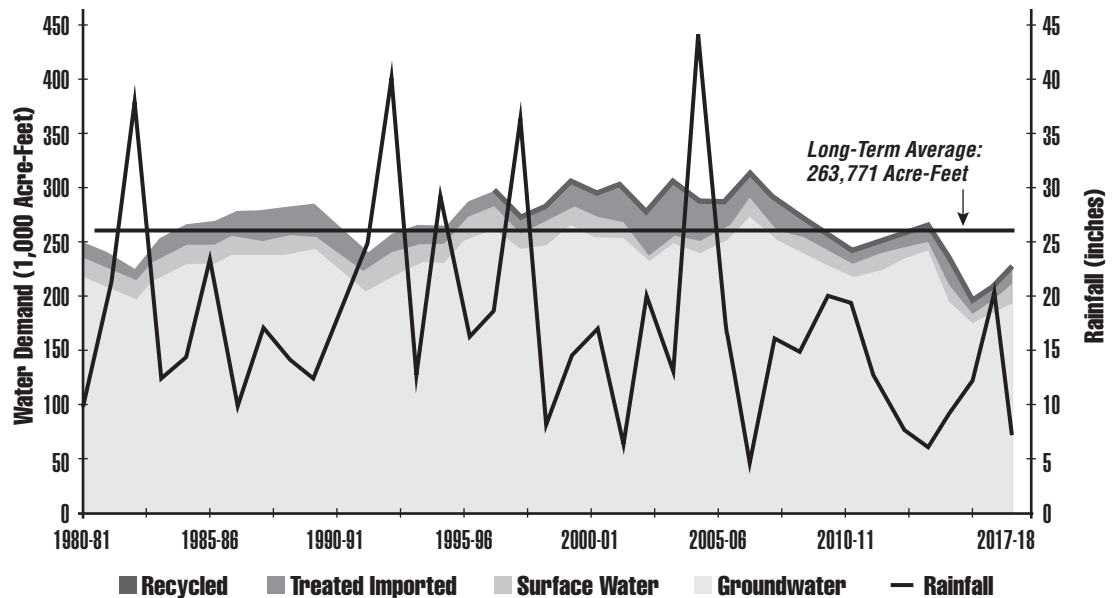
As of June 30, 2018, a total of about 154,100 acre-feet was in Cyclic Storage: Three Valleys Municipal Water District, 16,100 acre feet; San Gabriel Valley Municipal Water District, about 17,000 acre-feet; Upper San Gabriel Valley Municipal Water District, 6,700 acre-feet; Producer, 46,500 acre-feet; Water Resource Development storage, 12,700 acre-feet; MWD, 42,500 acre-feet; and Puente Basin Water Agency, 12,600 acre-feet. Cyclic Storage, as of June 30, 2017, increased by about 37,000 acre-feet above the previous year's total. Long-term average annual storage is about 55,779 acre-feet.

Figure 6. CYCLIC STORAGE AND RAINFALL IMPACTS ON KEY WELL



The additional water provided by Cyclic Storage (shown with the black line) helps local agencies meet their future Replacement Water obligations. This graph also forecasts Key Well elevations for four scenarios: wet years, average years, dry years, and drier years.

FIGURE 7. TOTAL WATER DEMAND INCREASED



Long-term average water demand is about 263,771 acre-feet. During fiscal year 2017–18, total demand was about 229,000 acre-feet, made up of groundwater (197,500 acre-feet), surface water (12,000 acre-feet), imported treated water (14,500 acre-feet), and recycled water (5,000 acre-feet).

## OPERATING SAFE YIELD

Main San Gabriel Basin Watermaster annually establishes an Operating Safe Yield (OSY), which is based on prevailing hydrologic conditions in the San Gabriel Valley. Production in excess of the OSY is subject to an assessment that is used to purchase untreated imported water to replenish the Basin. Production in excess of water rights during fiscal year 2017–18 was about 39,900 acre-feet, which is about 8 percent higher than the long-term average of about 37,000 acre-feet. Watermaster aggressively responded to the decreasing trend of the groundwater level at the Key Well during fiscal year 2017–18 by establishing an OSY of 150,000 acre-feet for fiscal year 2018–19 (identical to the OSY for fiscal year 2017–18 and about 45,000 acre-feet below the long-term average of about 195,000 acre-feet). The reduced OSY provides Watermaster with a mechanism to purchase additional replenishment supplies for the Basin. During fiscal year 2017–18, the OSY was set using a management approach that seeks to set the OSY within a narrower range than previously. This is part of the overall effort to manage the Basin in a way that makes the water supply more stable, and costs more predictable, in both wet and dry years.

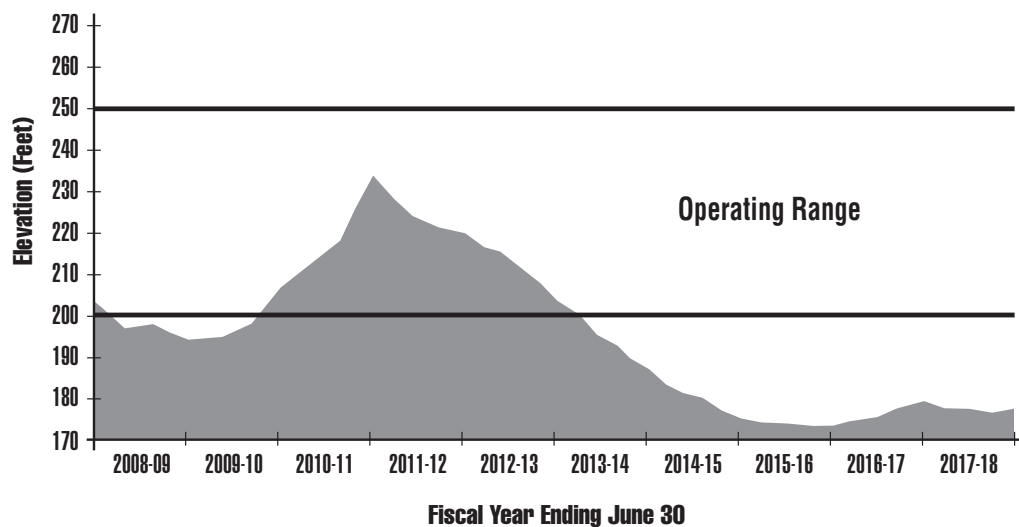
## KEY WELL BELOW OPERATING RANGE

The Baldwin Park Key Well is used as the benchmark for determining how the groundwater supply for the entire Basin is trending. In accordance with the Judgment, Watermaster manages the Basin to maintain the groundwater level at the Key Well between 200 feet and 250 feet, to the extent possible. As of September 30, 2016, the groundwater level at the Baldwin Park Key Well declined to a historic

low of about 172 feet. Five consecutive years of below-average rainfall, below-average stormwater runoff, and local groundwater production resulted in a decrease in the groundwater elevation at the Key Well to 173.6 feet as of June 30, 2016. However, the recent decrease of the groundwater elevation at the Baldwin Park Key Well was only about four feet between July 1, 2015, and July 1, 2016. This was largely the result of delivery of about 31,000 acre-feet of untreated imported water and historic low groundwater production of about 174,000 acre-feet (compared to the long-term average of about 235,000 acre-feet). This level was about 28 feet below the “low” end of the operating range for Watermaster.

During fiscal year 2017–18, rainfall was about 40 percent of average while stormwater runoff was also about 40 percent of average. However, Watermaster coordinated with Producers and the Responsible Agencies to import about 83,000 acre-feet of untreated water to the Basin. In addition, groundwater production was only about 197,500 acre-feet, well below the 10-year average of 214,000 acre-feet. Collectively, these actions resulted in a Key Well elevation of 178.5 feet as of June 30, 2018. This elevation is about 22 feet below the “low” end of the operating range for Watermaster, but represents a only a one-foot decrease from the prior year, despite rainfall being only 40 percent of average.

**Figure 8. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS**



The groundwater elevation at the Key Well on June 30, 2018, was about 178.5 feet, which is below the Basin’s operating range of 200 to 250 feet.

## DECREASE IN WATER STORED IN CANYON RESERVOIRS

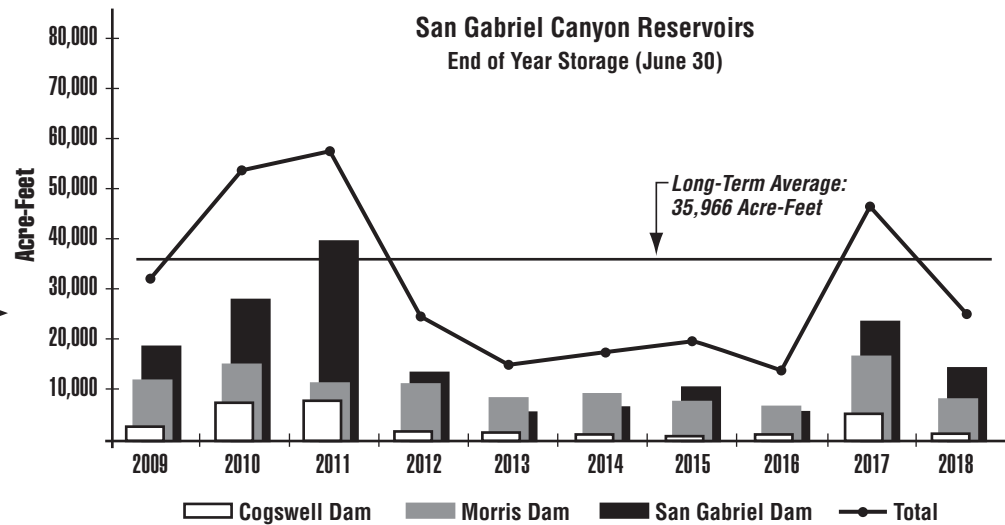
Cogswell, San Gabriel, and Morris reservoirs have a combined maximum storage capacity of about 85,000 acre-feet. At the end of the 2017–18 fiscal year, about 24,000 acre-feet of water was stored in these reservoirs. This is about 23,000 acre-feet less than the previous year, representing about 60 percent of the long-term average



of about 30,000 acre-feet of water in storage at the end of the fiscal year, and only about 30 percent of total reservoir capacity. In addition, about 39,000 acre-feet of local runoff was recharged into the groundwater basin during fiscal year 2017–18.

**Figure 9. WATER STORED IN SAN GABRIEL CANYON RESERVOIRS**

Total water stored in San Gabriel Canyon Reservoirs at the end of the fiscal year was 24,000 acre-feet, about 60 percent of the long-term average.



## COORDINATED BASIN REPLENISHMENT ACTIVITIES

Historical Basin management practices encouraged Producers to pump local groundwater instead of relying on treated imported water to address water demands in excess of Producer’s water rights. Under normal conditions, Watermaster quantifies groundwater production in excess of Producers’ water rights, and arranges to have an equal amount of untreated imported water delivered to replenish the overproduction from the Basin at a “Full Service” untreated water rate. However, in response to the ongoing drought, Watermaster has implemented wide-ranging additional new tools to more intensely manage Basin groundwater supplies, refill the Basin, and ensure long-term water supply reliability. These new drought management tools are described in the following pages.

### THREE-YEAR PURCHASED WATER PLAN

Watermaster annually prepares the “Three-Year Purchased Water Plan,” in which it quantifies the amount of untreated imported water which will be purchased from each of the three municipal water districts within the San Gabriel Valley and delivered to replenish groundwater supplies within the Basin. Untreated imported water deliveries will be made to 1) augment the lack of local stormwater replenishment through the Water Resource Development program, 2) increase the amount of water held in Producer Cyclic Storage accounts, 3) satisfy the prior year’s Replacement Water obligation, and 4) support other programs negotiated with Watermaster. Recognizing the quantity of untreated imported water anticipated to be delivered in the ensuing three years aids Watermaster’s management of groundwater levels and supplies.

## **IMPLEMENTATION OF WATER RESOURCE DEVELOPMENT ASSESSMENT PROGRAM**

Watermaster adopted Resolution No. 05-14-263, which established a Water Resource Development Assessment that was applied to all production during fiscal year 2014–15 and 2015–16 for the Supplemental Reliability Program. The purpose of RDA is to establish a fund from which untreated imported water may be purchased and delivered to the Basin. It is intended to create a “reservoir” of water that is available to assist in the management of the Basin in the event untreated water is not available in the future because of a short-term statewide emergency.

The severe seven-year drought, resulted in significant reductions of the quantity of local stormwater replenishment to the Basin during fiscal year 2016–17, Watermaster expanded the Supplemental Water Reliability Program into the Supplemental Water Stormwater Augmentation Program, using the Water Resources Development Assessment described below.

Watermaster developed (RDA II) to help manage Basin water supplies under potential “worst case” hydrologic conditions, which is assumed to be three consecutive five-year droughts with the same hydrologic conditions as the recent 2011–12 through 2015–16 severe drought (total of 15 years of drought). RDA II generates revenue to purchase untreated imported replenishment water for stormwater augmentation, to maintain the Key Well elevation above 180 feet by the end of the tenth year of the hypothetical 15-year drought cycle. Watermaster uses the RDA II funds to purchase untreated imported water to replenish the Basin for the “general benefit” of all Producers within the Basin. Unlike the original RDA I, which is a Watermaster pre-purchase of Replacement Water, the RDA II will supplement local stormwater replenishment and allow no “right of recovery” using a water right by any Basin Producer. A stabilized Key Well elevation will ensure continued Basin water supply to the Basin Producers under a potential worst case, 15-year sustained drought. The RDA II Program had an initial assessment of \$40 per acre-foot on all fiscal year 2016–17 production and is planned to gradually increase to \$175 per acre-foot on all fiscal year 2020–21 production, which at that time will generate sufficient revenue to purchase about 40,000 acre-feet of water, representing about a five-foot benefit to Basin groundwater levels.

## **PROACTIVE MEASURES TO INCREASE CYCLIC STORAGE**

Both Watermaster and Producers recognize that prolonged drought conditions will adversely impact untreated imported water availability, which is essential to managing the Basin. Consequently, Watermaster has taken proactive measures to encourage Producers to increase the collective amount of water in their Cyclic Storage accounts from about 15,000 acre-feet as of the end of June 2010 to 46,500 acre-feet as of June 2018.

During fiscal year 2017–18, Watermaster, in conjunction with Upper District, entered into an agreement with MWD to have up to 80,000 acre-feet of untreated imported water delivered and stored in the Basin. In the ensuing five consecutive years (commencing December 2017), Watermaster has agreed to purchase one-fifth of the delivery (16,000 acre-feet per year). This agreement provides Watermaster with water supply reliability and provides MWD with delivery flexibility. As of June 2018, there was about 42,500 acre-feet in this storage account and Watermaster was negotiating with MWD to have an additional 16,000 acre-feet delivered to the Basin. In addition, Watermaster and the three municipal water districts collectively have 40,000 acre-feet of imported water in Cyclic Storage, which can be made available for Basin management. At the end of the fiscal year, there was about 129,000 acre-feet in all these Cyclic Storage accounts.

## **ACTIVELY PURSUING NEW REPLENISHMENT METHODS**

In addition to those programs noted above, Watermaster is actively pursuing alternative means of Basin replenishment.

### **RETAIL WATER CONSERVATION**

Watermaster is working with stakeholders across the Basin to encourage consumer-based conservation efforts to reduce groundwater production.

### **RECYCLED WATER**

Watermaster is working with Sanitation Districts of Los Angeles County, MWD, and others to pursue a firm supply of treated recycled water for Basin replenishment.

### **INCREASE REPLENISHMENT**

Watermaster is working with a range of stakeholders to implement tighter coordination and management to allow replenishment of imported water even during rainy periods, and finding new opportunities to deliver untreated imported water for Basin replenishment.

### **MORE FLEXIBLE FINANCIAL TOOLS**

Watermaster has instituted new, more flexible financial tools to increase water imports, such as pre-purchase of water, and is evaluating others, including mid-year assessments.

### **DEVELOPING AND IMPLEMENTING STORAGE AND EXPORT PROGRAMS**

Watermaster has developed criteria for new water storage and export programs, and implemented them for the first time in 2015. These programs will continue in future years.

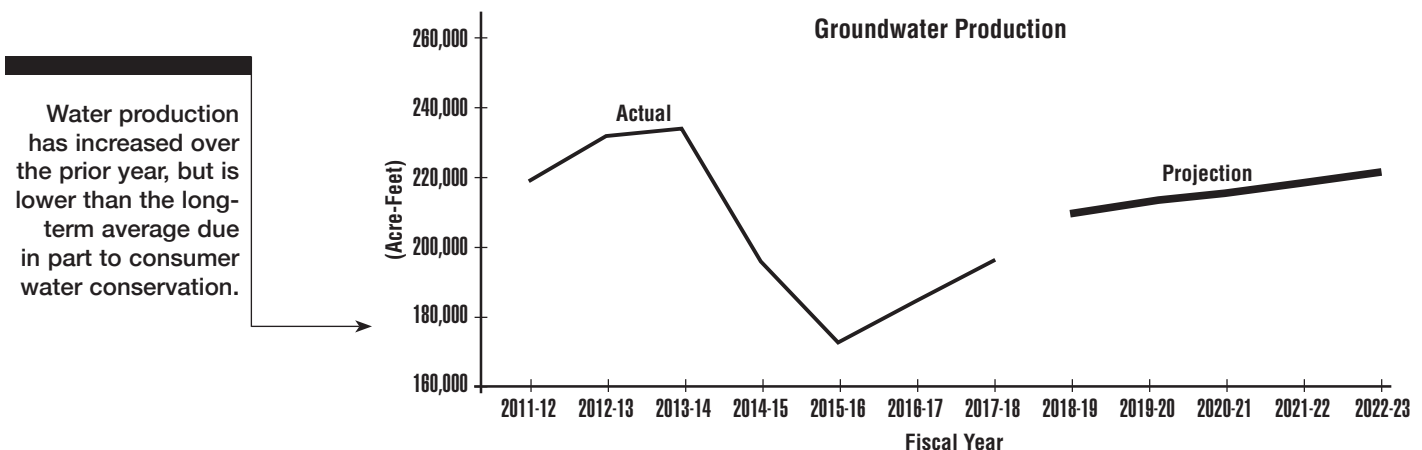
## PROJECTED GROUNDWATER DEMANDS

### PRODUCER ESTIMATES

Section 28 directs each Producer to submit a report to Watermaster detailing its projected water demands and water production requirements over the following five years. Projections were received from 20 Producers (all municipal water suppliers), accounting for about 82 percent of the groundwater production from the Basin.

For those Producers who did not submit projections, Watermaster provided an estimate based on the assumption that each Producer had an aggregate projected growth rate that was the same as those Producers who did submit projections. Projected groundwater production is shown in Appendix A. Figure 10 shows the total projected and historical groundwater production from the Basin since 2011–12.

Figure 10. PROJECTED AND HISTORICAL WATER PRODUCTION



Total groundwater production for the 2017–18 fiscal year from the Basin was 197,520 acre-feet, which is higher than the previous year's production of 184,400 acre-feet, but significantly lower than the 10-year average of 214,000 acre-feet. The decrease in groundwater production over time, as illustrated in Figure 7, is primarily the result of increased water conservation at the consumer level. Groundwater production is influenced by a variety of conditions, including population, seasonal precipitation, groundwater contamination, and availability of surface water. Excluding the impacts of seasonal precipitation, groundwater production had experienced a gradual long-term increase, consistent with increasing population, as shown on Figure 7. The impacts of groundwater contamination during the 1980s and 1990s resulted in reduced groundwater production, offset by an equal increase of treated imported water purchases. Since the late 1990s, groundwater production and treatment facilities have become operational, enabling water purveyors to resume use of groundwater. However, since the late-2000s there has been a significant decrease in groundwater (and overall) demand, which is likely the result of increased water conservation by consumers.

## UPGRADE OF GROUNDWATER MODEL

The long-used and highly effective 2-D groundwater model is being updated in a multi-year process. It will provide advanced capabilities for identifying existing conditions, designing programs and testing outcomes. It will be useful for virtually every aspect of Basin management, from recycled water development, to water quality evaluations, to well performance analysis.

# CURRENT WATER QUALITY CONDITIONS

Since the early 1990s, almost 1.6 million acre-feet of contaminated groundwater have been treated for beneficial use.

Groundwater delivered to customers continues to be of high quality and always meets state and federal drinking water standards. However, a number of contaminants in areas of the Basin require careful monitoring and treatment before the water is served for domestic use. These contaminants include a variety of industrial solvents referred to as Volatile Organic Compounds, or VOCs. Another common contaminant found in the Basin is nitrate, primarily from fertilizers used during the Valley's agricultural period. Since 1997, additional contaminants have been detected: perchlorate, a solid rocket fuel ingredient; N-nitrosodimethylamine (NDMA), associated with liquid rocket fuel; 1,2,3-trichloropropane (1,2,3-TCP), a degreasing agent; and 1,4-dioxane, a stabilizer for chlorinated solvents.

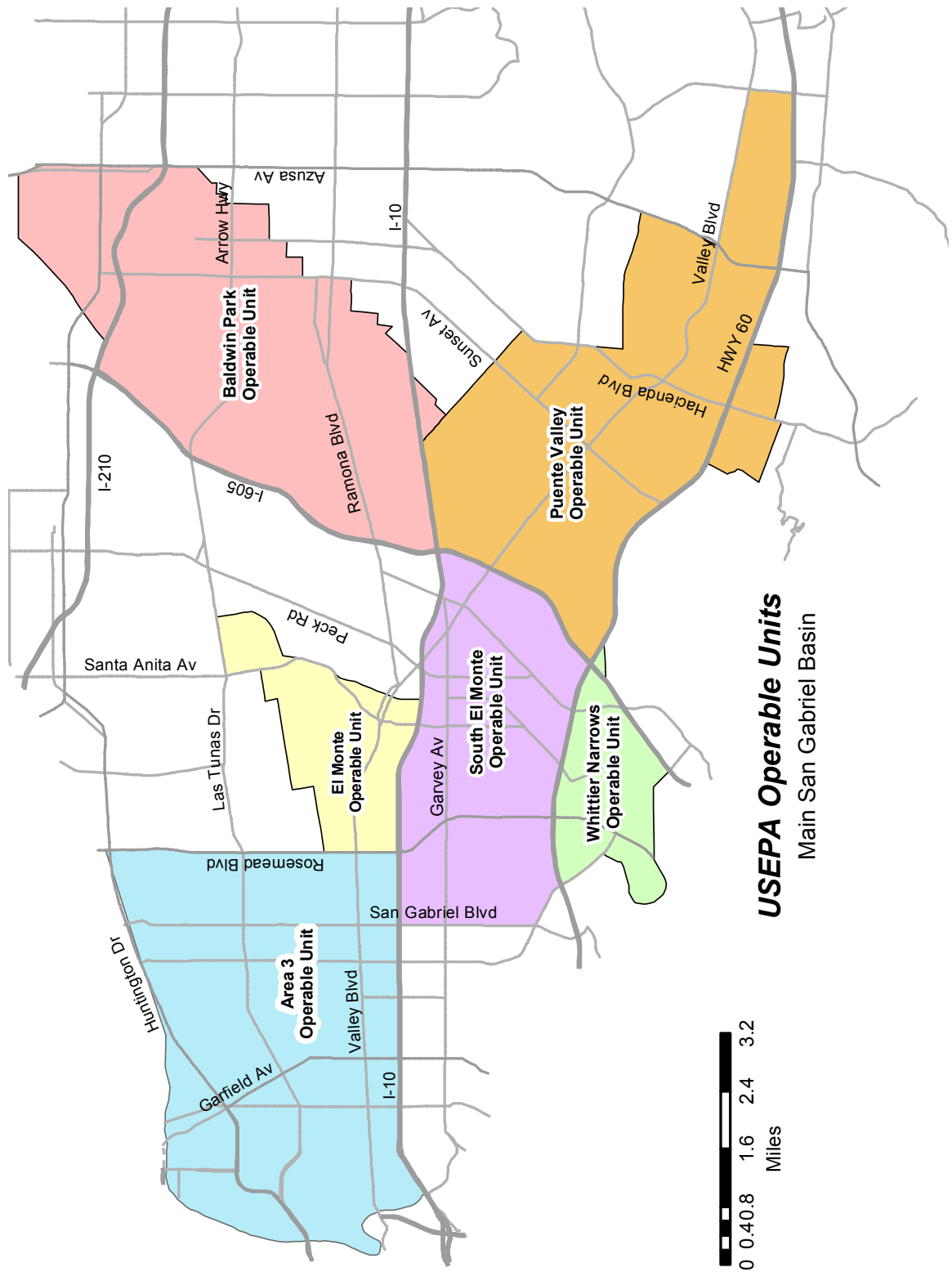
→ In response to the detection of these contaminants, Watermaster and local water entities aggressively pursued construction of treatment facilities to control the spread of contaminants and continue providing high-quality water meeting all state and federal drinking water standards. This policy of remediation and reuse preserves a valuable resource, particularly in the midst of the current drought, and reduces the overall cost of groundwater cleanup. Initially, a number of VOC treatment facilities were constructed, while excessive nitrate concentrations were blended with higher quality water to reach acceptable levels. Since the detection of perchlorate, NDMA, 1,2,3-TCP, and 1,4-dioxane, Watermaster has been instrumental in the successful operation of treatment facilities to treat those contaminants.

While only present in limited parts of the Basin, these chemicals pose difficult challenges to water Producers. When the chemicals were initially detected, Watermaster responded vigorously by working closely with the local water community to sponsor treatment research, and to design, fund, and construct cleanup projects as rapidly as possible rather than wait for the USEPA and the firms named as responsible for the contamination. Watermaster subsequently led negotiations that resulted in the Baldwin Park Operable Unit (BPOU) Project Agreement, including reimbursement for groundwater cleanup costs from certain parties responsible for the contamination. Under the BPOU Agreement, Watermaster is responsible for overall project coordination and administration, groundwater monitoring, and compliance with USEPA reporting requirements. Watermaster also participates in decisions regarding technology selection, construction, and operations. Now that all of the BPOU treatment facilities are operational, Watermaster also monitors the BPOU Project's performance in containing and removing contamination.

In addition to cleanup activities with the BPOU, Watermaster coordinates and maintains records on groundwater cleanup efforts within the Puente Valley Operable Unit (PVOU), the El Monte Operable Unit (EMOU), South El Monte Operable Unit (SEMOU), and the Area 3 Operable Unit (Area 3 OU). The location of these Operable Units is shown on Figure 11.



**Figure 11. LOCATION MAP OF USEPA OPERABLE UNITS**



## **PRIMARY CONTAMINANTS IN THE GROUNDWATER BASIN**

### **VOLATILE ORGANIC COMPOUNDS AND NITRATES**

VOCs and nitrates are the most prevalent contaminants found in the Basin.

Intensive monitoring and research concerning these two types of contaminants have been underway for many years. The location of VOC contamination and cleanup methods for VOCs are generally well understood. During fiscal year 2017–18, 33 plants treated roughly 25.4 billion gallons (about 78,000 acre-feet) of VOC-contaminated water as shown in Appendix E. Note in Figure 12 that although VOC contamination is substantial, it is centered in just a few areas, leaving a large portion of the Basin unaffected. Water containing nitrates above the Maximum Contaminant Level (MCL) is either blended with other low-nitrate sources of water or not used. Figure 13 indicates that nitrates, similar to VOCs, are concentrated in a few areas and have the highest concentrations in the eastern portion of the Basin, away from the most productive pumping areas.

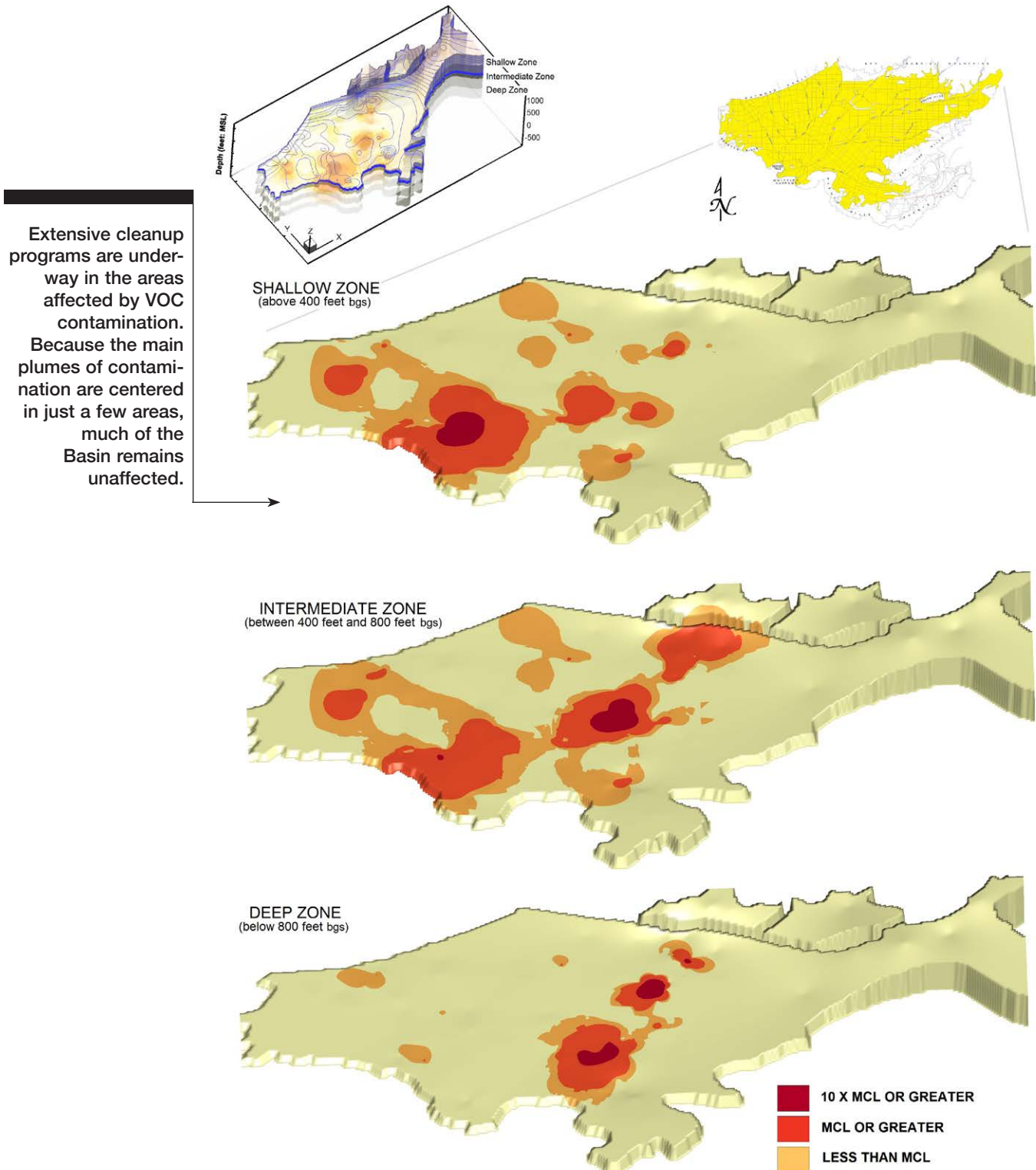
### **PERCHLORATE**

In January 2002, the State Water Resources Control Board, Division of Drinking Water (DDW), previously the California Department of Public Health, lowered the Notification Level (NL) for perchlorate from 18 parts per billion to 4 parts per billion, and a total of 22 wells were removed from service due to unacceptable levels of perchlorate. DDW subsequently raised the NL to 6 parts per billion in March 2004, and later established an MCL of 6 parts per billion during October 2007. Watermaster played a key role in development of the first treatment facility to remove perchlorate from drinking water. On February 27, 2015, the Office of Environmental Health Hazard Assessment (OEHHA) published an updated Public Health Goal (PHG) of 1 part per billion for perchlorate in drinking water. Once OEHHA establishes or revises a PHG for a contaminant with an MCL, a determination will be made by DDW as to whether the MCL should be considered for possible revision. In anticipation of a possible revision to the perchlorate MCL, Watermaster coordinated with Producers to conduct “low-level” detection sampling for perchlorate, using a laboratory detection level of 0.1 part per billion, which allowed for detection of perchlorate below the current detection level of 4 parts per billion. Ion-exchange technology treatment facilities were operational at five sites in the BPOU and at two facilities in other parts of the Basin during fiscal year 2017–18.

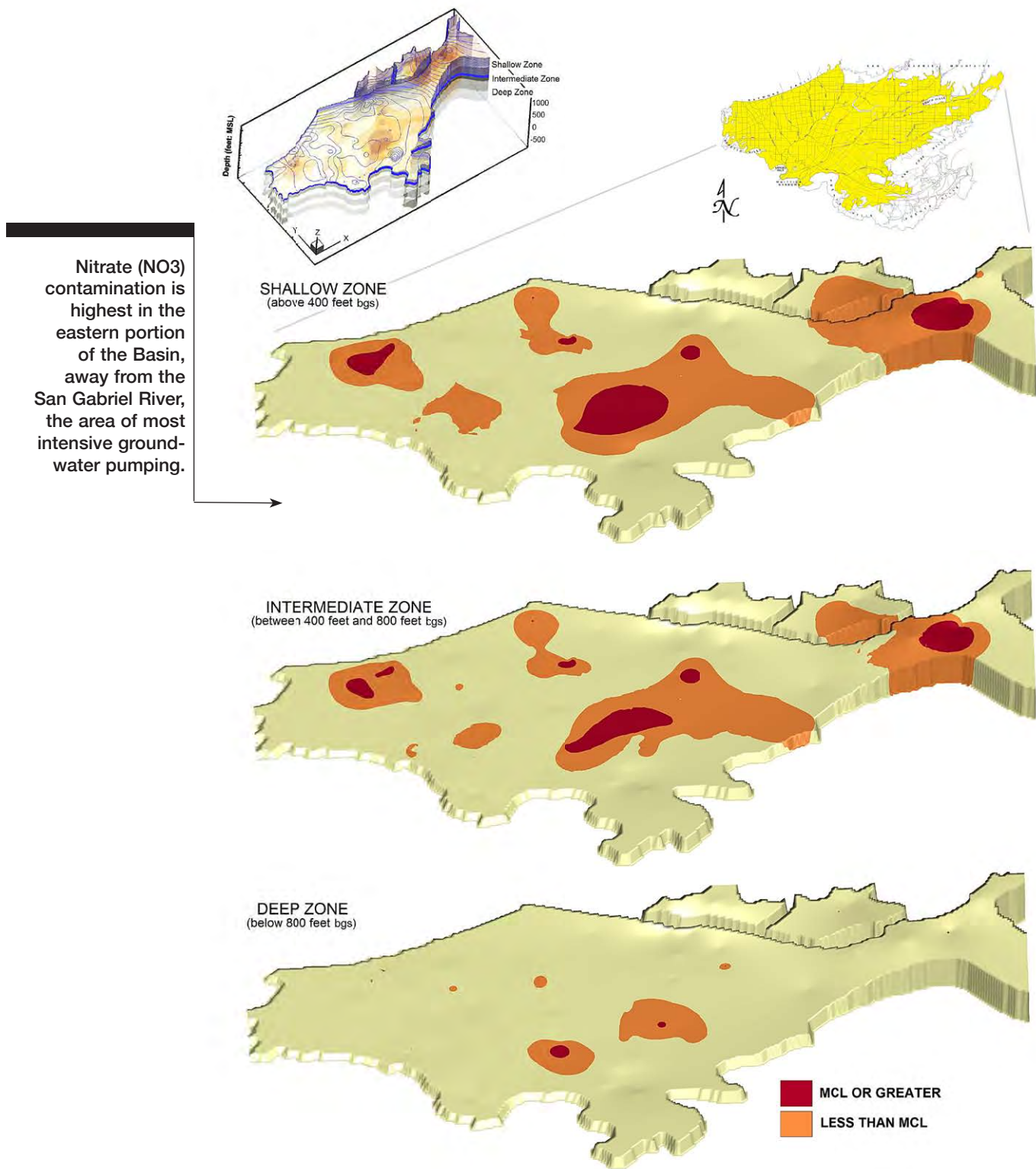
### **NDMA**

During 1998, eight local wells were found to contain levels of NDMA above the NL—at that time, 2 parts per trillion. Five of the wells with measurable levels of NDMA had already been taken out of service for other reasons, and the other three wells were put on inactive status once NDMA was detected. DDW subsequently raised the NL to 10 parts per trillion. As with perchlorate, Watermaster played a key role in the construction of NDMA treatment facilities in the BPOU area of the Basin. Five facilities were operational during fiscal year 2017–18.

**Figure 12. VOLATILE ORGANIC COMPOUND  
LEVELS IN GROUNDWATER THROUGHOUT  
THE BASIN**



**Figure 13. NITRATE LEVELS IN  
GROUNDWATER THROUGHOUT THE BASIN**



### **TRICHLOROPROPANE (1,2,3-TCP)**

The degreasing agent 1,2,3-TCP has been detected in the groundwater above the MCL of 5 parts per trillion, primarily in the BPOU and the Area 3 OU. This compound was detected in the BPOU during the winter of 2006, and its presence delayed use of one treatment facility for potable purposes. Following detection, Watermaster, in cooperation with its BPOU project partners, worked to construct treatment facilities to remove 1,2,3-TCP from the groundwater to make it suitable for potable uses. Those facilities were operational during fiscal year 2017–18.

## **WELLS ASSESSED FOR VULNERABILITY TO CONTAMINATION**

One of the primary purposes of the Five-Year Plan is to identify wells in the Basin that are vulnerable to contamination. A well is considered vulnerable if the concentration of contaminants has ever reached 50 percent of the NL or MCL allowed by state drinking water regulations. In an effort to project which wells may be vulnerable over the next five years, Watermaster reviews water quality tests performed on each well, regional water quality conditions, and contaminant migration patterns. Watermaster also participates in plans to construct treatment facilities, as needed.

### **WATER QUALITY PROTECTION PLAN**

Watermaster maintains a Water Quality Protection Plan that provides an early warning to Producers of potential increases in contaminant levels. The Water Quality Protection Plan also provides suggested alternative sources of supply, and proposes long-term actions to solve contamination problems without contributing to the migration of contaminants in the Basin.



# FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

Watermaster facilitates groundwater cleanup projects that also meet water supply needs.

The Main San Gabriel Basin's designation as a federal Superfund site was prompted by the discovery of widespread VOC contamination. Cleanup plans were developed to contain and remove VOCs from groundwater, and Watermaster, along with various other local water agencies, water Producers, and regulators, has worked to develop the expertise, financing, and treatment technologies to effectively address Basin-wide cleanup of VOCs.

The discovery of perchlorate and NDMA, however, complicated the existing VOC cleanup approach by creating a number of challenges. Most importantly, these new contaminants could not be removed using existing treatment facilities, and new treatment methods had to be identified, financed, and implemented.

This report provides a comprehensive water quality cleanup and water supply plan for the Main San Gabriel Basin, including each of the USEPA Operable Units. Watermaster's plan for each area is consistent with the USEPA plans, and its goal is to implement cleanup as promptly as possible, with or without the cooperation of the Responsible Parties.

## GROUNDWATER MONITORING PROGRAMS

Monitoring includes measuring groundwater levels, groundwater quality, and groundwater flow. Watermaster continuously refines its understanding of the groundwater Basin to better define the safe yield of the Basin, and to protect and improve local water quality.

### CONTINUE KEY WELL AND SUPPLEMENTAL KEY WELL OPERATION AND DATA PROCESSING

The entire 167-square-mile groundwater Basin is managed as one unit based on the groundwater levels as measured at a single Key Well in Baldwin Park. Water levels have been measured at this well since 1903 and are currently measured every three hours by an automated recorder.

Additional groundwater level recorders have been installed near the Santa Fe Spreading Grounds; adjacent to the San Gabriel River above the I-210 Freeway; in the City of Rosemead; in the City of Covina; and near Whittier Narrows Dam. These water level records are synchronized with the record in the Key Well. Collectively, water level data from these wells provides a better understanding of the impacts of recharge operations at the Santa Fe Spreading Grounds on Basin hydrogeology. Water elevation data are collected semi-annually at about 170 additional wells throughout the Basin, and water level recorders may be installed in some of those wells over the next five years.

## **CONTINUE BASINWIDE GROUNDWATER ELEVATION MONITORING PROGRAM (BGWEMP)**

The purpose of the BGWEMP is to obtain groundwater level measurements from a large number of wells across the Basin. The information is used to prepare groundwater contour maps showing the direction of groundwater flow. The data are also used in the Basin computer model to simulate future groundwater flow patterns. Through implementation of the BGWEMP plan over the next five years, Watermaster will take the following steps:

- Take weekly measurements of water levels in 9 of the 170 primary wells.
- Gather semi-annual measurements of water levels at all 170 primary wells.
- Collect weekly measurements of water levels in 9 of the 170 primary wells.
- Obtain water levels in secondary wells from well owners or water Producers, the San Gabriel Valley Protective Association, Regional Board, USEPA, and others.
- Update the database with water level data.
- Prepare semi-annual groundwater contour maps of the entire Basin.
- Participate in the California Statewide Groundwater Elevation Monitoring (CASGEM) program.

## **IMPLEMENT PROVISIONS OF SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA)**

The Sustainable Groundwater Management Act (SGMA) became effective on September 29, 2014. As manager of an adjudicated Basin with ongoing effective management, Watermaster's requirements are generally limited to reporting the following information, to the extent available, for the portion of the Basin subject to the adjudication:

- (A) Groundwater elevation data
- (B) Annual groundwater extractions for the preceding water year
- (C) Surface water supply used or available for use for groundwater recharge or in-lieu use
- (D) Total water use
- (E) Change in groundwater storage
- (F) The annual report submitted to the court

Watermaster intends to provide the following information to Department of Water Resources (DWR) over the next five years in compliance with SGMA.

- (A) **Groundwater elevation data.** Watermaster is the “Monitoring Entity” for the Main Basin under the terms of the CASGEM program, and has submitted semi-annual static water elevations to DWR since the inception of CASGEM. Furthermore, Watermaster has collected static water elevations as part of the BGWEMP since the early 1990s. Watermaster uses the data to prepare semi-annual groundwater contour maps (which are available at Watermaster’s website) and support the Watermaster’s Main Basin groundwater computer model. Watermaster will continue to collect and review static groundwater elevation data on a regular basis.
- (B) **Annual groundwater extraction data.** Watermaster includes quarterly groundwater extraction data for each groundwater well in its Annual Report. In addition, Watermaster provides a projection of groundwater production by each Producer over each of the upcoming five years, as shown in Appendix A of this Plan. Copies of Watermaster’s current and prior annual reports are available on Watermaster’s website.
- (C) **Surface water used for groundwater recharge or in-lieu use.** Watermaster has included quarterly local surface water diversions for treated potable use in Appendix E of its Annual Report. Furthermore, Watermaster has presented a summary of local surface water, used for groundwater recharge, in the introduction to this Plan.
- (D) **Total water use.** Water use in the Main Basin includes groundwater, treated local surface water, treated imported water, and recycled water. A summary of total water is included in the introduction of this Plan.
- (E) **Change in groundwater storage.** Groundwater storage in the Main Basin is referenced to the elevation as measured at the Baldwin Park Key Well (Key Well). The Main San Gabriel Basin Judgment (Exhibit H) notes groundwater in storage was about 7,700,000 acre-feet when the elevation at the Key Well was 209 feet above mean sea level (msl). In general, each foot of change in elevation equals about 8,000 acre-feet in storage.
- The Key Well elevation was about 179.4 feet on July 1, 2017, and water in storage was about 7,470,000 acre-feet. The Key Well elevation on July 1, 2018, was about 178.5 feet above msl and water in storage was about 7,460,000 acre-feet. The net change in storage was a decrease of about 10,000 acre-feet.
- (F) **Submittal of Annual Report to the Court.** Watermaster submits its Annual Report to the Court by November 1 of each year.

## **GROUNDWATER QUALITY MONITORING**

### **IMPLEMENT SALT AND NUTRIENT MANAGEMENT PLAN**

During February 2009, the State Water Resources Control Board adopted the “Recycled Water Policy,” which adopted goals for water recycling, water conservation, and replenishment of stormwater runoff to enhance water supplies throughout California. One component of the Recycled Water Policy requires all groundwater basins to develop a “Salt and Nutrient Management Plan” (SNMP). Watermaster took the lead role in developing the SNMP for the Main San Gabriel Basin. The SNMP identifies the existing water quality of the Main San Gabriel Basin (specifically Total Dissolved Solids [TDS]—Nitrate, Chloride, and Sulfate), which are not addressed by USEPA cleanup activities, and compares that water quality to standards established by the Regional Board. Each of the four water quality parameters comply with the standards established by the Regional Board resulting in significant flexibility to implement new programs to enhance groundwater replenishment and reliability. A final draft of the SNMP was submitted to the Regional Board in May 2016 to satisfy the submittal requirement, and was approved by the Regional Board in December 2016. Watermaster, in coordination with water purveyors, is implementing the SNMP through continued collection and review of TDS data. The water quality data are also included in the Watermaster database to facilitate review.

### **CONTINUE BASINWIDE GROUNDWATER QUALITY MONITORING PROGRAM**

Under the Basinwide Groundwater Quality Monitoring Program (BGWQMP), all production wells in the Basin will be sampled at least once a year for VOCs, nitrates, and TDS. In addition, sulfate and chloride are sampled at least once every three years as required by DDW. The frequency of BGWQMP sampling complements the monitoring requirements under state law, and supplements information gathered through Regional Water Quality Control Board source investigations and USEPA remedial investigations. The data collected by BGWQMP are used to identify and evaluate the current locations and magnitude of contaminant levels, along with the effectiveness of the cleanup project.

### **CONTINUE TITLE 22 WATER QUALITY TESTING**

Watermaster continues to perform DDW-mandated Title 22 water quality sampling of groundwater from approximately 200 active wells in the Basin. Watermaster also continues to track regulations and inform local water purveyors about regulatory issues and requirements. Information from centralized water quality testing is added to Watermaster’s water quality database, which contains data from many sources. The centralized testing enables Watermaster to identify water quality trends on a regional scale that might otherwise go unnoticed at a specific well, and also lowers monitoring costs to Producers.

## **GROUNDWATER FLOW AND CONTAMINANT MIGRATION PROGRAMS**

Groundwater level and quality data are entered into the Basin computer model, which simulates where contamination is projected to flow in the future. The goal is to project contaminant levels by areas in advance of the actual event, and identify remedial steps to be taken. The Basin computer model has been used to identify the area of contamination that may be captured (capture zone) under various groundwater pumping scenarios. The capture zone is also able to show the length of time it may take contamination to flow toward a well, and subsequently be treated for contaminant removal prior to use as a drinking water supply.

### **GROUNDWATER ELEVATION SIMULATIONS SHOW FUTURE GROUNDWATER ELEVATIONS BASED ON PROJECTED DEMANDS AND REPLENISHMENT**

To determine the groundwater elevations throughout the Basin, Watermaster compiles the daily average 2017–18 production for each well, enters the data into the groundwater model, and simulates how production impacts water levels throughout the Basin, as shown on Figure 14 (see Appendix F). A computer simulation is then run using projected production for 2022–23, along with other water supply variables for the next five years (e.g., local water recharge, imported water recharge, subsurface inflow/outflow) assuming a five-year “dry hydrology” pattern. In addition to the historical hydrology, additional untreated imported water purchased with revenue from the RDA II assessment is projected to be replenished over each of the next five years. The simulated groundwater elevations are shown on Figure 15 (see Appendix F). The projected groundwater elevations reflect a general decrease of 20 to 30 feet throughout the Basin, which is primarily the result of insufficient stormwater runoff for replenishment and the projected increased groundwater production. However, these simulations indicate the estimated increase in groundwater production—based on projections by Producers and projected future “dry” hydrology—as of fiscal year 2022–23 will not significantly change the overall direction of Basin groundwater movement. This flow continues generally from east to west to a pumping trough in the western portion of the Basin, and also northeast to southwest, exiting through Whittier Narrows. The simulation for 2022–23 also shows localized pumping depressions in the Baldwin Park area, which are expected to be created by continuous pumping from groundwater extraction wells associated with the BPOU contaminant cleanup project to contain and control groundwater contaminant movement. Contaminated groundwater from those wells is treated at several treatment facilities and the DDW-permitted water is provided for potable use. Importantly, Figure 16 (see Appendix F) shows the net decrease in the groundwater elevations throughout the Basin despite of the replenishment of additional untreated imported water attributed to the RDA II deliveries. Figure 16 (see Appendix F) indicates groundwater elevations may be up to 50 feet lower in some parts of the Basin—directly impacting Producers by increasing energy costs to produce groundwater and in many cases adversely impacting well pump efficiency.



Simulations of the direction of groundwater flow in 2017–18 and projections for 2022–23 show that the estimated increase in groundwater pumping during this period would not significantly change the overall direction of Basin groundwater movement.

## **SIMULATE IMPACTS OF GROUNDWATER PUMPING ON CONTAMINANT MIGRATION**

Simulations similar to the ones described above were used to make the finding that pumping from USEPA-mandated cleanup projects as managed by Watermaster helps to control and contain contaminant migration. Groundwater quality data collected during 2017–18 and projected quality data for 2022–23 were entered into the groundwater model for the contamination migration studies. The computer model is used to simulate how the flow of water would affect the migration of contamination. The simulation showed that changes in groundwater flow did not have major impacts on the migration of contaminants (refer to Figures 14 and 15 in Appendix F).

## **GROUNDWATER CLEANUP PROJECTS**

Watermaster coordinates and provides technical assistance on many cleanup projects in the Basin, although the cleanup facilities are owned and operated by local water utilities. Watermaster’s involvement includes coordinating proposed USEPA cleanup programs to ensure, to the extent feasible, that treated water is put to beneficial use within the Basin and that projects are consistent with the Judgment.

### **REVIEW OF SECTION 28 APPLICATIONS**

Watermaster reviews every proposal to construct, destroy, or modify a well or build a treatment plant pursuant to Section 28 of its Rules and Regulations.

Watermaster’s review ensures that any new or increased extractions from the Basin or any changes in production patterns are consistent with contamination cleanup efforts, and will not adversely affect Basin water quality. In conjunction with the evaluation of an application to construct a new well or a treatment facility, Watermaster uses a computer model to predict the potential future impacts of each project on contaminant migration and Basin cleanup.

## **BASIN CLEANUP PROJECTS/USEPA OPERABLE UNIT PLANS**

The USEPA established Operable Units for the various areas within the Basin that have been contaminated and require groundwater cleanup. The Operable Units are Area 3 (Alhambra area), Baldwin Park, El Monte, Puente Valley, South El Monte, and Whittier Narrows (see Figure 11). USEPA has established a methodical process which includes a review of the extent of contamination (Remedial Investigation), development of cleanup alternatives (Feasibility Study), and selection of the most appropriate cleanup plan (Proposed Plan). Following these activities, the USEPA issues a report identifying the agreed-upon cleanup plan (Record of Decision). Subsequently, the project facilities are designed and constructed.

With USEPA plans generally in place, Watermaster continues to work with affected Producers, Responsible Parties, and others to implement solutions that provide effective cleanup, conform to the USEPA plans, and use the treated water to meet local water supply needs.

This Five-Year Plan describes each of the Operable Units along with the USEPA proposed cleanup plan. (A detailed description of the history and treatment facilities associated with each of the Operable Units is included in Appendix E.) In addition, Appendix A identifies current and projected groundwater production over the next five years, to address the contamination and to implement the cleanup plans. In areas where the groundwater supply has been affected by contamination, Watermaster works with affected Producers and other local water agencies to implement cleanup as quickly as possible, with or without the cooperation of the Responsible Parties. Watermaster and affected Producers continue to seek cost recovery from the Responsible Parties for any cleanup costs they incur.

## **BALDWIN PARK OPERABLE UNIT (BPOU)**

### **BPOU BACKGROUND**

The BPOU is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, stretching from an area north of the I-210 Freeway in Azusa to south of the I-10 Freeway in Baldwin Park (see Figure 11). The contamination primarily has been the result of improper use and disposal of industrial chemicals in the Azusa area, and it continues to spread generally in a southwesterly direction.

### **BPOU CLEANUP PROGRESS**

The USEPA originally issued its Record of Decision (ROD), or cleanup plan, for the BPOU in the mid-1990s. The ROD calls for pumping and treating groundwater in the northern area, where contaminant concentrations are highest, and also in the southern area to limit further migration of contaminants. The ROD initially involved pumping and treating an average of about 7,000 gallons per minute in the northern area and 16,000 gallons per minute in the southern area. During 2015, the extraction rates were modified and now require pumping and treating an average of about 6,000 gallons per minute in the northern area and 23,750 gallons per minute in the southern area. The ROD also recommends the use of existing water supply wells, treatment systems, and pipelines when feasible. Importantly, the plan encourages adding the treated water to the potable supply, rather than simply recharging it back into the ground or discharging it to storm drains.

In 2002, after several years of negotiation led by Watermaster, eight of the BPOU Responsible Parties (called Cooperating Respondents, or CRs) and seven Water Entities signed the BPOU Project Agreement. Under this landmark agreement, Watermaster provided overall project management and project coordination services. Under the original agreement, the CRs have paid the cost to construct the USEPA-required BPOU cleanup facilities, and are required to continue to provide funding to operate the facilities for about 15 years—through 2017.

Subsequently, the BPOU Project Agreement has been extended an additional ten years, through 2027.

Watermaster will continue to coordinate BPOU cleanup activities among the various parties to the BPOU Project Agreement through at least 2027, interfacing with USEPA and overseeing agreements between water purveyors to use the treated water. With all of the BPOU facilities now operational, Watermaster is also coordinating collection of field data, such as water production, water quality, and water levels, and is providing BPOU Project performance reports to USEPA in cooperation with the CRs. The projects will ensure that there is an adequate water supply for the BPOU area. These projects are consistent with the USEPA ROD, meet contaminant removal and containment requirements, and meet local water supply needs.

## **BPOU CURRENT AND UPCOMING ACTIVITIES**

Watermaster regularly reviews water quality data to evaluate the impact the production wells and specially-constructed extraction wells have on control of contamination migration. It is difficult to develop a precise picture of the geographic extent of contamination because water quality is obtained from numerous wells that produce water from different depths below the groundwater table. Figure 17 (see Appendix F) shows the approximate extent of VOC contamination from about five years ago and from current data. In addition, the approximate geographic extent of VOC contamination, using engineering judgment, for five years into the future is shown on Figure 17 (see Appendix F). The 2017–18 plume indicates treatment facilities are controlling plume movement. Watermaster anticipates the area of the VOC plume will continue to decrease, as shown on the 2022–23 plume. Similarly, Figure 18 (see Appendix F) shows the approximate extent of perchlorate. The series of three plume characterizations indicates plume movement is expected to be controlled and, similar to VOCs, continue to decrease in the future (2022–23).

Watermaster, in coordination with BPOU Producers, the CRs, and USEPA, will continue to investigate, test, construct, and permit more efficient treatment facilities to continue to provide safe and reliable potable water supply at a reduced cost. This includes the use of different granular activated carbons to remove VOCs, ion-exchange resins to remove perchlorate, and pressurized ultraviolet light vessels to remove NDMA. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **SOUTH EL MONTE OPERABLE UNIT (SEMOU)**

### **SEMOU BACKGROUND**

The SEMOU covers approximately eight square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway, the 60 Freeway, the I-605 Freeway, and San Gabriel Boulevard (see Figure 11).

### **SEMOU CLEANUP PROGRESS**

A ROD for the SEMOU was issued in 2000, addressing VOC contamination in a limited area. Subsequently, additional water supply wells became contaminated, and new contaminants, including perchlorate, were detected in wells in the SEMOU area.

In November 2005, USEPA revisited its ROD and issued an Explanation of Significant Differences (ESD) indicating that SEMOU cleanup projects would also address treatment of perchlorate. The City of Monterey Park, San Gabriel Valley Water Company, and Golden State Water Company (GSWC) have all constructed new or additional treatment facilities within SEMOU. The San Gabriel Basin Water Quality Authority (WQA) has assisted the Producers by securing outside funding to help offset project costs.

### **SEMOU CURRENT AND UPCOMING ACTIVITIES**

Over the next five years, Watermaster will continue to review all proposed modifications to the treatment facilities through the Section 28 permitting process. In addition, Watermaster will participate in planning/progress meetings which are held on a quarterly basis. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **EL MONTE OPERABLE UNIT (EMOU)**

### **EMOU BACKGROUND**

The EMOU covers an area of about 10 square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway on the south, Rosemead Boulevard on the west, and Santa Anita Avenue and Rio Hondo on the east. The northern boundary generally follows Lower Azusa Road (see Figure 11). While shallow contamination is found throughout the EMOU, deep (intermediate-zone) contamination is found in the northwest and easterly area of the EMOU.

### **EMOU CLEANUP PROGRESS**

The USEPA's ROD for the EMOU includes numerous small, shallow extraction wells and treatment, along with two areas of deep extraction and treatment. Due to generally poor water quality in the area, the shallow groundwater will not be used for a potable supply. The deep extractions are recommended for potable use by local water purveyors. The remediation efforts are separated into "Westside" and "Eastside" activities.

## **EMOU CURRENT AND UPCOMING ACTIVITIES**

Over the next five years, Watermaster will continue to review all proposed modifications to the treatment facilities through the Section 28 permitting process. In addition, Watermaster will participate in planning/progress meetings which are held on a quarterly basis. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **PUEENTE VALLEY OPERABLE UNIT (PVOU)**

### **PVOU BACKGROUND**

The PVOU lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway on the south, Azusa Avenue on the east, and the I-10 Freeway on the north (see Figure 11). The PVOU encompasses the Puente Valley, which is tributary to the southeasterly portion of the Basin. Contamination in the PVOU includes various VOCs. All aquifers within the PVOU (shallow, intermediate, and deep) are considered sources for municipal water supplies.

### **PVOU CLEANUP PROGRESS**

The USEPA has issued a ROD for the PVOU. The plan identified in the ROD includes extraction and treatment of groundwater within the shallow and intermediate zones from wells located in the center of the PVOU.

### **PVOU CURRENT AND UPCOMING ACTIVITIES**

Over the next five years, it is anticipated that the intermediate-zone extraction wells and treatment facility will be permitted and begin supplying treated water for potable purposes. Watermaster will continue to review all proposed modifications to the treatment facilities through the Section 28 permitting process. In addition, Watermaster will participate in planning/progress meetings which are held on a quarterly basis. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **WHITTIER NARROWS OPERABLE UNIT (WNOU)**

### **WNOU BACKGROUND**

The USEPA declared the WNOU is a “fund-lead” project, meaning that the USEPA (with the State) has funded the design, construction, and operation of the remedy, and will seek cost recovery from Responsible Parties later. The USEPA cleanup plan involves a series of shallow- and intermediate-zone extraction wells with treatment (see Figure 11).

### **WNOU CLEANUP PROGRESS**

As of May 2013, the responsibility for the WNOU was transferred from USEPA to the California Department of Toxic Substances Control (DTSC). Furthermore, the WNOU Shallow Zone Project (as described in Appendix E) ceased operation during 2013 due to improved water quality.

## **WNOU CURRENT AND UPCOMING ACTIVITIES**

Over the next five years, it is anticipated that San Gabriel Valley Water Company will operate the intermediate-zone extraction wells and treatment facility including a blend plan, and will take treated water for potable use in addition to continued deliveries to Legg Lake. This will enable the WNOU treatment facility to produce a greater amount of water and to put all the water to beneficial uses. Watermaster will continue to review all proposed modifications to the treatment facility through the Section 28 permitting process. In addition, Watermaster will participate in planning/progress meetings which are held on a quarterly basis. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **AREA 3 OPERABLE UNIT**

### **AREA 3 BACKGROUND**

The Area 3 Operable Unit is located in the westerly portion of the Basin. It is generally bounded on the south by the I-10 Freeway, on the east by Rosemead Boulevard, on the north by Huntington Drive, and on the west by the boundary of the Main Basin (see Figure 11).

### **AREA 3 CLEANUP PROGRESS**

USEPA has installed a series of monitoring wells to collect water quality data to supplement data collected from water supply wells and has initiated a Remedial Investigation and Feasibility Study to identify the extent of the contamination and to evaluate appropriate cleanup remedies.

### **AREA 3 CURRENT AND UPCOMING ACTIVITIES**

Watermaster will continue to review all proposed modifications to the treatment facility through the Section 28 permitting process. In addition, Watermaster will participate in planning/progress meetings which are held on a quarterly basis. Watermaster maintains records on all treatment facilities on a quarterly basis.

## **WATER SUPPLY PLANNING**

The Main San Gabriel Groundwater Basin is very complex, covering 167 square miles, and has the capacity to hold about 2.8 trillion gallons of water. Water enters the Basin from countless natural and man-made locations, and is extracted by over 200 wells operated by dozens of independent Producers. Watermaster conducts special studies to identify projected water demands and to increase understanding of the Basin, so that it can be managed in a way that preserves and improves water supply and quality. In addition, Watermaster routinely reviews available data and is prepared to construct new monitoring wells to obtain supplemental water level and water quality data to better manage the Basin. As a result of these activities, and the cooperative activities with the Regional Board (noted below), there is no longer ongoing VOC or perchlorate contamination occurring; rather the focus is on cleanup activities.

## **DROUGHT MANAGEMENT PLANNING**

Watermaster coordinates and maintains records on production, stormwater, and untreated imported water deliveries for groundwater replenishment, and impacts on the groundwater levels throughout the Basin, particularly at the Baldwin Park Key Well. In that capacity, Watermaster has coordinated deliveries of untreated imported water into Cyclic Storage accounts and implemented the RDA II assessment, which is used to purchase untreated imported water to augment stormwater replenishment. Watermaster has developed a 3-D computer model, which will be used to identify the groundwater levels throughout the Basin, including wells in which water supply reliability may be impacted by decreasing groundwater levels. Throughout the upcoming five years, Watermaster will maintain records on existing and proposed water system interconnections, water levels in production wells, and Producer plans to develop new sources of supply in anticipation of a prolonged drought.

Watermaster has been advised that Producers propose to construct four new wells and two treatment plants during the next five years. Watermaster will continue providing the following services to assist Producers in meeting water demand:

- Investigate all new or increased water extractions.
- Provide computer modeling and technical support on treatment issues concerning the impact of extractions on contaminant migration.
- Prioritize areas requiring further investigation, and coordinate with Producers on water supply modifications.
- Direct changes in pumping or treatment as necessary.

## **WATER QUALITY PROTECTION PLAN**

Watermaster's Water Quality Protection Plan provides early warning to Producers before their wells are found to exceed drinking water quality standards. The Plan also contains pre-analyzed suggestions to the Producers for responding to the presence of contaminants.

## **LANDFILL INSPECTIONS**

Watermaster routinely conducts on-site inspections of area landfills to ensure they are operated in a way that does not allow contaminants to seep into the groundwater. Watermaster reports any violations of Waste Discharge Requirements to the Regional Board for enforcement.



## **IDENTIFY AND REDUCE POTENTIAL SOURCES OF CONTAMINATION, COOPERATE WITH THE REGIONAL WATER QUALITY CONTROL BOARD**

Since 1993, Watermaster has obtained information from the Regional Board about sources of VOC contamination in the Basin as part of the Regional Board's investigations of potential contaminated sites. The information includes a description of all potential sources of contamination investigated by the Regional Board, including:

- Maps showing the location of all investigation sites.
- Available cause-and-effect relationships between pollution sources and contaminated wells.
- Plans and tentative schedules to abate the source of pollution and to clean up the soil and water.

Watermaster has reviewed a large amount of information gathered in Regional Board files and entered it into a database. This information is used in Watermaster's Section 28 process to help evaluate changes in pumping practices in relation to known contamination sources.

## **AQUIFER PERFORMANCE TESTS**

Watermaster has developed a groundwater flow model for the entire Basin that assists in evaluating the potential impacts of changes in groundwater production. Although Watermaster completed its three-year Aquifer Performance Test investigation, additional tests will be conducted as required for Section 28 applications or for other needs. A tabulation of potential Aquifer Performance Test investigation sites is included in Appendix D. The sites identified include a pumping well and at least one monitoring well. The tests provide information on the characteristics of the aquifer, such as transmissivity, hydraulic conductivity, and coefficient of storage. The information gathered on aquifer characteristics will support cleanup activities, including groundwater model development and calibration (see Appendix D).

# DIRECTORY TO APPENDICES

The Following Appendices Are Found in This Section:

- A. Projected Groundwater Demands from 2018–19 to 2022–23
- B. Simulated Changes in Groundwater Elevations at Wells or Wellfields in Main San Gabriel Basin
- C. Highlights of Volatile Organic Compounds and Nitrate Concentrations and Wells Vulnerable to Contamination
- D. Potential Sites for Aquifer Performance Tests
- E. Summary of Treatment Facility Activity in the Main San Gabriel Basin
- F. Simulated Basin Groundwater Contours 2017–18 and 2022–23 (Figures 14 and 15),

Simulated Groundwater Elevation Changes Between FY 2017–18 and FY 2022–23 (Figure 16),

VOC Plume Map in BPOU and Perchlorate Plume Map in BPOU (Figures 17 and 18)



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## **APPENDIX A.**

### **PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**



# **APPENDIX A**

## **PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23

### **ADAMS RANCH MUTUAL WATER COMPANY (CALIFORNIA AMERICAN WATER COMPANY)**

1902106	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902689	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000182	3	379	235	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

### **ALHAMBRA, CITY OF (2)**

1900010	MOELR (8)	3,387	2,100	996.69	1,014.23	1,052.09	1,066.67	1,081.54	1,096.42
1900011	9	798	495	11.25	11.45	11.88	12.04	12.21	12.38
1900012	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900013	12	807	500	13.48	13.72	14.23	14.43	14.63	14.83
1900014	13	1,048	650	267.15	271.85	282.00	285.91	289.89	293.88
1900015	14	1,532	950	1,214.70	1,236.07	1,282.22	1,299.98	1,318.11	1,336.24
1900016	15	1,774	1,100	1,312.30	1,335.39	1,385.24	1,404.43	1,424.02	1,443.61
1900017	2 LON	1,589	985	1,660.25	1,689.46	1,752.53	1,776.81	1,801.59	1,826.37
1900018	GARF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902789	1 LON	1,613	1,000	1,063.75	1,082.47	1,122.88	1,138.43	1,154.31	1,170.19
1903014	11	1,032	640	93.72	95.37	98.93	100.30	101.70	103.10
1903097	7	1,250	775	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		14,832	9,195	6,633.29	6,750.00	7,002.00	7,099.00	7,198.00	7,297.00

### **AMARILLO MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY) (2)**

1900791	SOUTH (1)	644	399	185.78	393.75	401.62	409.65	417.84	426.20
1900792	NORTH (2)	424	263	149.74	0.77	0.77	0.77	0.77	0.77
SUBTOTAL:		1,068	662	335.52	394.52	402.39	410.42	418.61	426.97

### **ANDERSON, RAY L. AND HELEN**

8000085	NA	18	11	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		18	11	0.00	0.00	0.00	0.00	0.00	0.00

### **ARCADIA, CITY OF (2)**

1901013	1 LON	1,613	1,000	23.47	123.00	120.00	118.00	116.00	113.00
1901014	2 LON	1,613	1,000	0.00	0.00	0.00	0.00	0.00	0.00
1901015	1 BAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902077	1 CAM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902078	2 CAM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902084	2 LGY	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902358	1 STJ	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902791	2 BAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902854	1 PEC	5,968	3,700	4,125.65	4,045.00	3,965.00	3,888.00	3,811.00	3,737.00
8000127	1 LO	6,613	4,100	2,179.75	2,137.00	2,095.00	2,054.00	2,014.00	1,974.00
8000177	2 STJ	1,452	900	0.00	0.00	0.00	0.00	0.00	0.00
8000213	3 CAM	4,355	2,700	4,136.01	4,055.00	3,975.00	3,897.00	3,821.00	3,746.00
8000214	3 LGY	2,903	1,800	1,634.95	1,603.00	1,571.00	1,541.00	1,510.00	1,481.00
SUBTOTAL:		24,518	15,200	12,099.83	11,963.00	11,726.00	11,498.00	11,272.00	11,051.00

### **ARCADIA RECLAMATION**

8000229	NA	NA	NA	36.43	50.00	50.00	50.00	50.00	50.00
SUBTOTAL:		NA	NA	36.43	50.00	50.00	50.00	50.00	50.00

### **ATTALLA, MARY L.**

8000119	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00



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**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23

**AZUSA, CITY OF (AZUSA AGRICULTURAL WATER COMPANY, AZUSA VALLEY WATER COMPANY) (2)**

1902533	5 (1)	1,613	1,000	390.10	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
1902535	6 (3)	4,839	3,000	412.86	550.00	550.00	550.00	550.00	550.00
1902536	GENESIS 1 (4)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902537	GENESIS 2 (5)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902538	GENESIS 3 (6)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000072	1 (7)	4,839	3,000	1,897.44	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
8000086	3 (8)	4,678	2,900	3,580.07	2,380.00	2,380.00	2,380.00	2,380.00	2,380.00
1902457	2 (1 NORTH)	3,226	2,000	1,090.41	1,370.00	1,370.00	1,370.00	1,370.00	1,370.00
1902458	4 (2 SOUTH)	4,516	2,800	1,174.30	2,160.00	2,160.00	2,160.00	2,160.00	2,160.00
1902113	AVWC 1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902114	AVCW 2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902115	8 (AVWC 4)	3,065	1,900	432.50	300.00	300.00	300.00	300.00	300.00
1902116	7 (AVWC 5)	1,613	1,000	755.79	550.00	550.00	550.00	550.00	550.00
1902117	9 (AVWC 6)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902425	AVWC 7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000103	10 (AVWC 8)	4,194	2,600	73.94	70.00	70.00	70.00	70.00	70.00
8000178	11	2,581	1,600	1,712.84	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
8000179	12	2,420	1,500	1,685.18	1,450.00	1,450.00	1,450.00	1,450.00	1,450.00
1903119	VULCAN	NA	NA	112.76	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		13,872	8,600	13,318.19	13,130.00	13,130.00	13,130.00	13,130.00	13,130.00

**AZUSA ASSOCIATES LLC (COVELL, ET AL)**

1900390	DALTON	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**B & B RED-I-MIX CONCRETE INC.**

1902589	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**BANKS, GALE & VICKI (1)**

1900415	NA	560	347	31.42	32.00	32.00	32.00	32.00	32.00
SUBTOTAL		560	347	31.42	32.00	32.00	32.00	32.00	32.00

**BASLINE WATER COMPANY**

1901200	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901201	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901202	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**BEVERLY ACRES MUTUAL**

8000004	ROSE HILLS	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**BIRENBAUM, MAX**

8000005	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**BROOKS, GIFFORD JR.**

1902144	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
BURBANK DEVELOPMENT COMPANY									
1900093	BURB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM (2)									
1900354	STA FE	1,694	1,050	222.14	254.61	255.39	256.18	256.92	257.71
1900355	B V	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900356	MT AVE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900357	LAS L	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900358	FISH C	484	300	0.00	0.00	0.00	0.00	0.00	0.00
1902907	WILEY	2,420	1,500	1,309.33	1,500.72	1,505.34	1,509.95	1,514.34	1,518.96
1903018	CR HV	2,097	1,300	1,952.07	2,237.41	2,244.29	2,251.17	2,257.72	2,264.60
8000139	ENCTO	2,903	1,800	1,210.97	1,387.98	1,392.25	1,396.52	1,400.58	1,404.85
8000140	LASL 2	2,258	1,400	716.54	821.28	823.81	826.33	828.73	831.26
1900497	BACON	484	300	2.78	3.19	3.20	3.21	3.22	3.23
8000216	B V 2	3,549	2,200	545.99	625.80	627.72	629.65	631.48	633.40
SUBTOTAL:		15,888	9,850	5,959.82	6,831.00	6,852.00	6,873.00	6,893.00	6,914.00
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM (2)									
1900917	HALL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900918	GUESS	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900919	MISVV	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900920	MISVV	1,774	1,100	0.00	0.00	0.00	0.00	0.00	0.00
1900921	RIC-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900922	RIC-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900923	IVR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900924	MAR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900925	MAR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900926	GRAND	1,532	950	789.65	1,828.49	1,834.03	1,839.57	1,845.12	1,850.66
1900927	ROSE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900934	ROAN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900935	LONG	1,548	960	0.00	63.89	64.08	64.27	64.47	64.66
1901441	BR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902424	HOWL	968	600	570.49	827.08	829.59	832.10	834.60	837.11
1902787	BR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902867	IVR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903019	MAR-3	1,936	1,200	915.10	934.31	937.14	939.97	942.80	945.63
1903059	DELMAR	1,613	1,000	1,145.05	690.99	693.08	695.18	697.27	699.37
8000175	HALL-2	1,936	1,200	1,184.13	1,121.11	1,124.51	1,127.91	1,131.30	1,134.70
8000222	RIC-3	2,581	1,600	2,166.90	3,773.13	3,784.57	3,796.00	3,807.44	3,818.87
8000182	ADA-3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		11,307	8,610	6,771.32	9,239.00	9,267.00	9,295.00	9,323.00	9,351.00
CALIFORNIA COUNTRY CLUB (1)									
1902529	CLUB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902531	ARTES	1,129	700	0.00	0.00	0.00	0.00	0.00	0.00
1903084	SYC	1,290	800	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		2,420	1,500	0.00	0.00	0.00	0.00	0.00	0.00
CALIFORNIA DOMESTIC WATER COMPANY (2)									
1901181	2	5,404	3,350	2,894.76	2,718.29	3,126.03	3,126.03	3,493.00	3,493.00
1901182	1-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901183	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901185	13-N	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902967	6	6,452	4,000	1,898.60	1,782.86	2,050.28	2,050.28	2,290.97	2,290.97
1903057	3	7,259	4,500	6,427.92	6,036.06	6,941.46	6,941.46	7,756.33	7,756.33
1903081	8	4,839	3,000	3,439.30	3,229.63	3,714.08	3,714.08	4,150.08	4,150.08
8000100	5A	6,452	4,000	5,158.20	4,843.74	5,570.30	5,570.30	6,224.21	6,224.21
8000174	14	4,516	2,800	0.00	0.00	0.00	0.00	0.00	0.00
8000223	10	8,065	5,000	1,479.63	1,389.43	1,597.84	1,597.84	1,785.41	1,785.41
1900092	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		42,986	26,650	21,298.41	20,000.00	23,000.00	23,000.00	25,700.00	25,700.00

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		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
CARRIER CORPORATION (1)									
--	--	--	--	22.44	30.00	30.00	30.00	30.00	30.00
SUBTOTAL:		--	--	22.44	30.00	30.00	30.00	30.00	30.00
CEDAR AVENUE MUTUAL WATER COMPANY									
1901411	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902783	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0.00	0.00	0.00	0.00	0.00
CEMEX CONSTRUCTION MATERIALS L.P. (AZ-TWO INC.)									
1900038	2	2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
CHAMPION MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY)									
1900908	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902816	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000121	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0.00	0.00	0.00	0.00	0.00
CHEVRON USA									
1900250	TEMP1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL) (1)									
8000138	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CLAYTON MANUFACTURING COMPANY									
1901055	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000170	MW-4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARMS INC.) (1)									
1902951	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903072	5R	NA	NA	12.40	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	12.40	0.00	0.00	0.00	0.00	0.00
COLLISON, E.O.									
1902968	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

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**CORCORAN BROS.**

1902814	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**COUNTY SANITATION DISTRICT NO. 18 (1)**

8000008	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000009	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000104	LE 1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000105	LE 2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000106	LE 3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000107	LE 4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000128	EO8A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000129	E09A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000130	E10A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000131	E11A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000141	EX1	NA	NA	0.30	0.26	0.26	0.26	0.26	0.26
8000142	EX2	NA	NA	0.02	0.02	0.02	0.02	0.02	0.02
8000143	EX3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000144	EX4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000153	E16A	NA	NA	0.56	0.49	0.49	0.49	0.49	0.49
8000154	E17A	NA	NA	3.68	3.23	3.23	3.23	3.23	3.23
8000155	E18A	NA	NA	0.60	0.53	0.53	0.53	0.53	0.53
8000156	E19A	NA	NA	0.92	0.81	0.81	0.81	0.81	0.81
8000173	E20A	NA	NA	0.80	0.70	0.70	0.70	0.70	0.70
8000161	E01R	NA	NA	0.12	0.11	0.11	0.11	0.11	0.11
8000162	E03R	NA	NA	0.04	0.04	0.04	0.04	0.04	0.04
8000163	E05R	NA	NA	0.55	0.48	0.48	0.48	0.48	0.48
8000164	E07R	NA	NA	0.96	0.84	0.84	0.84	0.84	0.84
8000165	E02R	NA	NA	1.32	1.16	1.16	1.16	1.16	1.16
8000166	E04R	NA	NA	0.30	0.26	0.26	0.26	0.26	0.26
8000167	E06R	NA	NA	0.16	0.14	0.14	0.14	0.14	0.14
8000168	E08R	NA	NA	0.43	0.38	0.38	0.38	0.38	0.38
NA	WRP FL E	NA	NA	103.18	90.56	90.56	90.56	90.56	90.56
SUBTOTAL:		NA	NA	113.94	100.00	100.00	100.00	100.00	100.00

**COVINA, CITY OF**

1901685	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901686	2	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1901687	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		968	600	0.00	0.00	0.00	0.00	0.00	0.00

**COVINA IRRIGATING COMPANY (2)**

1900881	CONTR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900882	3 BAL	2,903	1,800	0.00	1,000.00	1,200.00	1,300.00	1,600.00	1,800.00
1900883	2 BAL	2,581	1,600	0.00	750.00	1,000.00	1,200.00	1,200.00	1,600.00
1900885	1 BAL	2,097	1,300	0.00	800.00	1,000.00	1,200.00	1,600.00	1,600.00
1900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		7,581	4,700	0.00	2,550.00	3,200.00	3,700.00	4,400.00	5,000.00

**CREVOLIN, A.J.**

8000011	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**CROWN CITY PLATING COMPANY**

8000012	01	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
DAVIDSON OPTRONICS INC.									
8000013	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
DAWES, MARY K.									
1902952	04	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
DEFALCO, JOHN & CAROLE									
8000194	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
DEL RIO MUTUAL WATER COMPANY (1)									
1900331	BURKE	261	162	111.00	100.00	100.00	100.00	100.00	100.00
1900332	KLING	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		261	162	111.00	100.00	100.00	100.00	100.00	100.00
DRIFTWOOD DAIRY									
1902924	01	298	185	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		298	185	0.00	0.00	0.00	0.00	0.00	0.00
DUNNING, GEORGE									
1900091	1910	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
EAST PASADENA WATER COMPANY, LTD. (2)									
1901508	9	2,420	1,500	272.11	168.10	159.34	159.42	159.50	159.58
8000217	11	2,420	1,500	1,298.26	1,339.04	1,269.25	1,269.89	1,270.53	1,271.16
SUBTOTAL:		4,839	3,000	1,570.37	1,507.14	1,428.59	1,429.31	1,430.03	1,430.74
EL MONTE, CITY OF (1)									
1901692	2A	1,532	950	856.10	767.01	767.01	767.01	767.01	767.01
1901693	3	807	500	0.00	0.00	0.00	0.00	0.00	0.00
1901694	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901695	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901699	10	2,420	1,500	1,039.60	931.41	931.41	931.41	931.41	931.41
1901700	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902612	MT VW	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903137	12	3,468	2,150	298.50	267.44	267.44	267.44	267.44	267.44
8000066	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000101	13	4,678	2,900	155.31	139.15	139.15	139.15	139.15	139.15
SUBTOTAL:		12,904	8,000	2,349.51	2,105.00	2,105.00	2,105.00	2,105.00	2,105.00
EL MONTE CEMETERY ASSOCIATION									
8000017	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
FRUIT STREET WATER COMPANY									
1901199	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23

**GATES, JAMES RICHARD (1)**

8000215	NA	NA	NA	0.83	5.00	5.00	5.00	5.00	5.00
SUBTOTAL:		NA	NA	0.83	5.00	5.00	5.00	5.00	5.00

**GLENDORA, CITY OF (1)**

1900826	11-E	1,452	900	36.10	36.11	36.11	36.11	36.11	36.11
1900827	12-G	3,226	2,000	3,809.98	3,810.51	3,810.51	3,810.51	3,810.51	3,810.51
1900828	10-E	1,048	650	29.62	29.62	29.62	29.62	29.62	29.62
1900829	8-E	2,742	1,700	2,029.70	2,029.98	2,029.98	2,029.98	2,029.98	2,029.98
1900830	9-E	2,742	1,700	1,996.49	1,996.77	1,996.77	1,996.77	1,996.77	1,996.77
1900831	7-G	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901523	1-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901524	4-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901525	3-G	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901526	2-E	807	500	238.01	238.04	238.04	238.04	238.04	238.04
8000003	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000149	5-E	2,903	1,800	1,959.38	1,959.65	1,959.65	1,959.65	1,959.65	1,959.65
8000184	13-E	1,290	800	699.22	699.32	699.32	699.32	699.32	699.32
SUBTOTAL:		16,211	10,050	10,798.50	10,800.00	10,800.00	10,800.00	10,800.00	10,800.00

**GOEDERT, LILLIAN**

8000027	GOEDERT	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT (3)**

1902148	BAS-3	968	600	445.99	626.06	656.56	659.02	661.48	663.94
1902149	BAS-4	1,210	750	0.00	0.00	0.00	0.00	0.00	0.00
1902150	HIGHWAY	1,129	700	669.67	940.05	985.84	989.54	993.24	996.93
1902151	ART-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902152	ART-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902154	L H-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902266	COL-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902267	COL-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902268	COL-4	726	450	19.34	27.15	28.47	28.58	28.68	28.79
1902269	COL-5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902270	COL-6	686	425	0.00	0.00	0.00	0.00	0.00	0.00
1902271	COL-7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902272	COL-8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902286	CITY	323	200	173.52	243.58	255.44	256.40	257.36	258.32
1902842	ART-3	403	250	3.63	5.10	5.34	5.36	5.38	5.40
1902287	MALON	605	375	431.18	605.27	634.75	637.13	639.51	641.89
8000212	HIGHWAY 2	1,613	1,000	792.45	1,112.40	1,166.59	1,170.97	1,175.34	1,179.72
SUBTOTAL:		7,662	4,750	2,535.78	3,559.60	3,733.00	3,747.00	3,761.00	3,775.00

**GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL DISTRICT (3)**

1900510	1 S G	1,774	1,100	1,119.21	1,321.22	1,379.58	1,384.57	1,389.57	1,394.56
1900511	2 S G	1,452	900	383.02	452.15	472.12	473.83	475.54	477.25
1900512	2 GAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900513	1 GAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900514	3 SAX	565	350	258.00	304.57	318.02	319.17	320.32	321.47
1900515	1 SAX	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000146	4 SAX	1,532	950	1.21	1.43	1.49	1.50	1.50	1.51
1902144	1 EAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902017	1 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902018	2 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902019	3 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902020	1 AZU	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902024	1 ENC	1,936	1,200	713.81	842.65	879.87	883.05	886.24	889.42
1902027	1 PER	697	432	101.72	120.08	125.38	125.84	126.29	126.75
1902030	1 GRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902031	2 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902032	1 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902034	1 FAR	1,936	1,200	167.11	197.27	205.99	206.73	207.48	208.22
1902035	2 ENC	968	600	616.96	728.32	760.49	763.24	765.99	768.75
1902461	2 GRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902948	2 FAR	1,210	750	75.63	89.28	93.22	93.56	93.90	94.24
8000073	3 ENC	1,048	650	636.88	751.83	785.04	787.88	790.72	793.57
8000111	4 JEF	2,097	1,300	692.87	817.93	854.06	857.15	860.24	863.33
8000221	3 GAR			656.92	775.49	809.74	812.67	815.61	818.54
SUBTOTAL:		9,891	6,132	5,423.34	6,402.20	6,685.00	6,709.20	6,733.40	6,757.60



**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
GOULD ELECTRONICS INC. AND JOHNSON CONTROLS INC. (1)									
	SEW	NA	NA	34.26	32.65	32.65	32.65	32.65	32.65
	DEW	NA	NA	884.77	843.14	843.14	843.14	843.14	843.14
SUBTOTAL:		NA	NA	919.03	875.79	875.79	875.79	875.79	875.79
GREEN, WALTER									
8000027	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000028	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HANSEN, ALICE									
8000029	2946	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM) (1)									
1900961	1 DUA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900963	1 KIN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901492	1 EL	3,302	2,047	98.81	89.53	89.53	89.53	89.53	89.53
1901493	3 EL	4,563	2,829	121.92	110.47	110.47	110.47	110.47	110.47
1903006	4 EL	356	221	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		8,221	5,097	220.73	200.00	200.00	200.00	200.00	200.00
HARTLEY, DAVID									
8000029	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HEMLOCK MUTUAL WATER COMPANY (1)									
1901178	NORTH	219	136	27.08	26.21	26.21	26.21	26.21	26.21
1902806	SOUTH	516	320	44.74	43.30	43.30	43.30	43.30	43.30
SUBTOTAL:		736	456	71.82	69.51	69.51	69.51	69.51	69.51
HERMETIC SEAL CORPORATION (1)									
--	--	NA	NA	53.21	49.72	49.72	49.72	49.72	49.72
SUBTOTAL:		NA	NA	53.21	49.72	49.72	49.72	49.72	49.72
INDUSTRY WATERWORKS SYSTEM, CITY OF (2)									
1902581	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902582	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902583	5TH AVE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000078	3	2,420	1,500	0.00	0.00	0.00	0.00	0.00	0.00
8000096	4	3,871	2,400	0.00	0.00	0.00	0.00	0.00	0.00
8000097	5	1,936	1,200	1,671.05	1,920.00	1,920.00	1,920.00	1,920.00	1,920.00
SUBTOTAL:		8,226	5,100	1,671.05	1,920.00	1,920.00	1,920.00	1,920.00	1,920.00
KIYAN, HIDEO									
1902970	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
LA PUENTE VALLEY COUNTY WATER DISTRICT (1)									
1901459	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901460	2	2,016	1,250	186.65	4.00	4.00	4.00	4.00	4.00
1902859	3	2,016	1,250	216.30	4.00	4.00	4.00	4.00	4.00
8000062	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000209	5	4,033	2,500	3,233.75	3,628.00	3,628.00	3,628.00	3,628.00	3,628.00
SUBTOTAL:		8,065	5,000	3,636.70	3,636.00	3,636.00	3,636.00	3,636.00	3,636.00
LA VERNE, CITY OF									
1902322	SNIDO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LAKIN, KELLY									
8000158	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LANDEROS, JOHN									
8000031	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LOS ANGELES, COUNTY OF (1)									
1902579	1 WHI	2,710	1,680	0.00	0.00	0.00	0.00	0.00	0.00
1902580	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902663	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902664	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902665	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902666	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000070	1 SF	3,349	2,076	917.26	842.40	842.40	842.40	842.40	842.40
8000074	2 SF	458	284	22.24	20.43	20.43	20.43	20.43	20.43
8000088	B RED	174	108	0.00	0.00	0.00	0.00	0.00	0.00
8000089	N LK	1,323	820	0.00	0.00	0.00	0.00	0.00	0.00
8000090	600	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902158	BN PK	2,087	1,294	0.00	0.00	0.00	0.00	0.00	0.00
8000150	3A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	WNOU	NA	NA	3,204.19	2,942.70	2,942.70	2,942.70	2,942.70	2,942.70
SUBTOTAL:		10,101	6,262	4,143.69	3,805.53	3,805.53	3,805.53	3,805.53	3,805.53
LOS FLORES MUTUAL WATER COMPANY									
1902098	1-LO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
21902098	1-HI	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LOUCKS, DAVID									
8000032	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MAECHTLEN, J.J. TRUSTEE									
1902321	OLD60	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902322	SNIDO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902323	M & N	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MANNING BROS. ROCK & SAND COMPANY									
1900117	36230	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MAPLE WATER COMPANY (SUBURBAN WATER SYSTEMS)									
1900042	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000109	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
MARTINEZ, FRANCES MERCY									
8000033	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
1900693	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900694	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MILLERCOORS LLC (MILLER BREWERIES WEST, L.P. /MILLER BREWING COMPANY) (1)									
8000034	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000075	2	5,533	3,430	429.44	400.00	400.00	400.00	400.00	400.00
8000076	--	5,533	3,430	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		11,065	6,860	429.44	400.00	400.00	400.00	400.00	400.00
MONROVIA, CITY OF (1)									
1900417	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900418	2	2,742	1,700	7.26	6.95	6.95	6.95	6.95	6.95
1900419	3	2,742	1,700	770.01	736.88	736.88	736.88	736.88	736.88
1900420	4	2,903	1,800	1,962.69	1,878.25	1,878.25	1,878.25	1,878.25	1,878.25
1940104	5	3,871	2,400	2,243.23	2,146.72	2,146.72	2,146.72	2,146.72	2,146.72
8000171	6	3,871	2,400	2,216.86	2,121.48	2,121.48	2,121.48	2,121.48	2,121.48
SUBTOTAL:		16,130	10,000	7,200.05	6,890.29	6,890.29	6,890.29	6,890.29	6,890.29
MONROVIA NURSERY									
1902456	DIV 4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MONTEREY PARK, CITY OF (2)									
1900453	1	968	600	171.18	246.21	246.21	246.21	246.21	246.21
1900454	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900455	3	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1900456	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900457	5	2,903	1,800	524.66	754.63	754.63	754.63	754.63	754.63
1900458	6	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1902372	7	1,290	800	0.00	0.00	0.00	0.00	0.00	0.00
1902373	8	2,903	1,800	0.00	0.00	0.00	0.00	0.00	0.00
1902690	9	2,903	1,800	8.93	12.84	12.84	12.84	12.84	12.84
1902818	10	2,903	1,800	998.40	1,436.02	1,436.02	1,436.02	1,436.02	1,436.02
1903033	12	3,226	2,000	2,902.34	4,174.51	4,174.51	4,174.51	4,174.51	4,174.51
1903092	14	1,129	700	0.00	0.00	0.00	0.00	0.00	0.00
8000126	FERN	1,613	1,000	329.94	474.56	474.56	474.56	474.56	474.56
8000196	15	3,226	2,000	2,518.36	3,622.22	3,622.22	3,622.22	3,622.22	3,622.22
SUBTOTAL:		25,002	15,500	7,453.81	10,721.00	10,721.00	10,721.00	10,721.00	10,721.00
MOON VALLEY NURSERY OF CALIFORNIA, INC. (1)									
1903072	5R	NA	NA	29.84	50.00	50.00	50.00	50.00	50.00
SUBTOTAL:		NA	NA	29.84	50.00	50.00	50.00	50.00	50.00
MUNOZ, RALPH (1)									
MUNOZ	8000219	NA	NA	2.42	5.00	5.00	5.00	5.00	5.00
SUBTOTAL:		NA	NA	2.42	5.00	5.00	5.00	5.00	5.00
NAMIMATSU FARMS INC.									
1901034	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
NICK TOMOVICH & SON									
8000037	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NO. 17 WALNUT PLACE MUTUAL WATER COMPANY									
8000038	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
OWL ROCK PRODUCTS (ROBERTSON'S READY MIX)									
1900043	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902241	NA	3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.00
1903119	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.00
PARK WATER CO.									
1901307	26-A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000039	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
PICO COUNTY WATER DISTRICT									
8000040	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
POLOPOLUS, ET AL									
1902169	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
RICHWOOD MUTUAL WATER COMPANY									
1901521	1 SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901522	2 NORTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
ROWLAND WATER DISTRICT (1)									
--	--	NA	NA	30.72	65.00	65.00	65.00	65.00	65.00
SUBTOTAL:		NA	NA	30.72	65.00	65.00	65.00	65.00	65.00
RURBAN HOMES MUTUAL WATER COMPANY (1)									
1900120	1-NORTH	726	450	184.14	164.06	164.06	164.06	164.06	164.06
1900121	2-SOUTH	484	300	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,210	750	184.14	164.06	164.06	164.06	164.06	164.06
RUTH, ROY									
8000041	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
S.L.S. & N. INC. (1)									
8000151	NA	NA	NA	28.48	18.16	18.16	18.16	18.16	18.16
SUBTOTAL:		NA	NA	28.48	18.16	18.16	18.16	18.16	18.16
SAN GABRIEL COUNTRY CLUB (1)									
1900547	1	226	140	56.55	65.94	65.94	65.94	65.94	65.94
1902979	2	750	465	200.71	234.06	234.06	234.06	234.06	234.06
SUBTOTAL:		976	605	257.26	300.00	300.00	300.00	300.00	300.00

# APPENDIX A

## PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23

### SAN GABRIEL COUNTY WATER DISTRICT (2)

1901669	5 BRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901670	6 BRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901671	7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901672	8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902785	9	1,613	1,000	1,506.76	1,547.91	1,547.91	1,547.91	1,547.91	1,547.91
1902786	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000067	11	1,387	860	7.68	7.89	7.89	7.89	7.89	7.89
8000123	12	4,274	2,650	1,368.36	1,405.73	1,405.73	1,405.73	1,405.73	1,405.73
8000133	14	3,871	2,400	1,243.19	1,277.14	1,277.14	1,277.14	1,277.14	1,277.14
8000220	15	3,871	2,400	1,325.15	1,361.34	1,361.34	1,361.34	1,361.34	1,361.34

SUBTOTAL: 15,017 9,310 5,451.14 5,600.00 5,600.00 5,600.00 5,600.00 5,600.00

### SAN GABRIEL VALLEY WATER COMPANY (2)

1900725	G4A	1,519	942	247.29	210.00	260.00	280.00	280.00	280.00
1900733	5A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902635	B1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000112	B5C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000038	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900729	1B	2,471	1,532	14.15	40.00	40.00	40.00	40.00	40.00
1902946	1C	3,268	2,026	1.14	0.00	0.00	0.00	0.00	0.00
8000081	1B4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000082	1B5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000102	1D	3,902	2,419	2,110.46	1,940.00	2,032.00	2,110.00	2,110.00	2,110.00
1900749	2C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902857	2D	3,653	2,265	1,784.72	1,270.00	1,306.00	1,370.00	1,370.00	1,370.00
8000065	2E	3,758	2,330	4.42	100.00	100.00	100.00	100.00	100.00
1900736	8A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900746	8B	1,887	1,170	7.36	4.00	4.00	4.00	4.00	4.00
1900747	8C	2,420	1,500	1,297.33	1,050.00	1,050.00	1,050.00	1,050.00	1,050.00
1903103	8D	4,370	2,709	1,633.24	1,050.00	1,050.00	1,050.00	1,050.00	1,050.00
8000113	8E	4,412	2,735	29.84	20.00	20.00	20.00	20.00	20.00
1900739	11A	3,574	2,216	1,526.77	1,428.00	1,670.00	1,750.00	1,750.00	1,750.00
1900745	11B	2,894	1,794	13.64	20.00	20.00	20.00	20.00	20.00
1902713	11C	1,665	1,032	124.72	20.00	20.00	20.00	20.00	20.00
8000083	11B7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902858	B4B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902947	B4C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900718	B5A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900719	B5B	4,624	2,867	4,364.97	5,646.00	5,646.00	5,646.00	5,646.00	5,646.00
1900721	B6B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903093	B6C	3,268	2,026	0.00	0.00	0.00	0.00	0.00	0.00
8000084	B6B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000098	B6D	3,184	1,974	0.45	0.00	0.00	0.00	0.00	0.00
1902525	B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000122	B7E	807	500	112.40	50.00	110.00	110.00	110.00	110.00
1901435	B7A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901436	B8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901437	B9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901439	B11A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901440	B7B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000068	B7C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000094	B7D	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000099	B9B	1,079	669	248.63	50.00	110.00	110.00	110.00	110.00
8000108	B11B	3,371	2,090	1,313.29	1,215.00	1,365.00	1,460.00	1,460.00	1,460.00
8000172	1E	4,666	2,893	711.78	787.00	867.00	1,035.00	1,035.00	1,035.00
8000160	B5D	3,755	2,328	148.33	100.00	100.00	100.00	100.00	100.00
8000169	8F	4,983	3,089	110.69	20.00	20.00	20.00	20.00	20.00
NA	G4B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	1F	NA	NA	0.00	20.00	50.00	50.00	50.00	50.00
8000197	2F	NA	1,887	1,033.64	120.00	120.00	120.00	120.00	120.00
NA	B11C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000203	B24A	3,992	2,475	298.99	50.00	100.00	100.00	100.00	100.00
8000204	B24B	3,763	2,333	22.76	50.00	50.00	50.00	50.00	50.00
8000187	B25A	3,041	1,885	3,920.79	4,033.00	4,033.00	4,033.00	4,033.00	4,033.00
8000188	B25B	4,589	2,845	3,839.58	4,033.00	4,033.00	4,033.00	4,033.00	4,033.00
8000189	B26A	1,195	741	1,103.47	1,210.00	1,210.00	1,210.00	1,210.00	1,210.00
8000190	B26B	2,197	1,362	1,845.12	1,210.00	1,210.00	1,210.00	1,210.00	1,210.00
8000205	B5E	5,212	3,231	3,218.68	5,646.00	5,646.00	5,646.00	5,646.00	5,646.00
NA	11D	NA	NA	0.00	20.00	50.00	50.00	50.00	50.00
NA	B24C	NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
NA	B24D	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

SUBTOTAL: 93,519 59,865 31,088.65 31,432.00 32,312.00 32,817.00 32,817.00 32,817.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
SLOAN RANCHES									
1901198	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000045	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SIERRA LA VERNE COUNTRY CLUB (1)									
8000124	1	NA	NA	0.00	4.25	4.25	4.25	4.25	4.25
8000125	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000192	15 OFFSITE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	4.25	4.25	4.25	4.25	4.25
SIERRA MADRE, CITY OF (1)									
8000193	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SONOCO PRODUCTS COMPANY (1)									
1912786	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902971	2	NA	NA	71.56	70.49	70.49	70.49	70.49	70.49
8000137	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	71.56	70.49	70.49	70.49	70.49	70.49
SOUTH COVINA WATER SERVICE									
1901606	102	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SOUTH PASADENA, CITY OF (2)									
1901679	GRAV 2	1,137	705	0.00	0.00	0.00	130.00	130.00	130.00
1901681	2 WIL	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0.00
1901682	3 WIL	3,161	1,960	1,984.91	2,495.95	2,495.95	2,495.95	2,495.95	2,495.95
1903086	4 WIL	1,774	1,100	635.45	799.05	799.05	799.05	799.05	799.05
SUBTOTAL:		8,009	4,965	2,620.36	3,295.00	3,295.00	3,425.00	3,425.00	3,425.00
SOUTHERN CALIFORNIA EDISON COMPANY (1)									
1900342	1EB86	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900343	2EB76	211	131	0.00	0.00	0.00	0.00	0.00	0.00
8000046	110RH	NA	NA	0.27	0.60	0.60	0.60	0.60	0.60
8000047	MURAT	2,420	1,500	0.00	0.00	0.00	0.00	0.00	0.00
11900344	38EIS	1,415	877	0.00	0.00	0.00	0.00	0.00	0.00
21900344	38W	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		4,045	2,508	0.27	0.60	0.60	0.60	0.60	0.60



# APPENDIX A

## PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
STERLING MUTUAL WATER COMPANY (1)									
1902085	SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902096	NORTH	397	246	44.12	40.21	40.21	40.21	40.21	40.21
8000132	NEW SO	436	270	61.36	55.92	55.92	55.92	55.92	55.92
SUBTOTAL:		832	516	105.48	96.13	96.13	96.13	96.13	96.13
SUBURBAN WATER SYSTEMS (2)									
1900337	152W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901429	201W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901430	201W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901431	201W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901432	201W5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901433	201W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901434	201W6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901596	147W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901597	142W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901598	139W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901599	139W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901600	139W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901602	140W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901604	148W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901608	105W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901609	106W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901610	111W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901611	112W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901612	113W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901613	114W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901614	117W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901615	120W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901616	122W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901617	123W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901618	124W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901619	125W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901620	126W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901621	131W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901622	133W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901623	134W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901624	135W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901625	136W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901627	202W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902119	149W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902519	150W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902760	147W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902761	153W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902762	154W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902763	157W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903067	140W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000069	139W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000077	147W3	1,936	1,200	19.87	17.34	17.34	17.34	17.34	17.34
8000087	125W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000092	126W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000093	140W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000145	140W5	4,516	2,800	1,009.75	881.23	881.23	881.23	881.23	881.23
8000095	139W5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000152	139W6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902518	151W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902819	155W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902820	155W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901605	101W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901607	103W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000181	121W1	2,742	1,700	1,565.24	1,366.02	1,366.02	1,366.02	1,366.02	1,366.02
8000183	142W2	4,033	2,500	4,025.25	3,512.92	3,512.92	3,512.92	3,512.92	3,512.92
8000195	201W7	4,839	3,000	5,339.11	4,659.56	4,659.56	4,659.56	4,659.56	4,659.56
8000198	201W8	4,516	2,800	1,835.62	1,601.99	1,601.99	1,601.99	1,601.99	1,601.99
8000207	151W2	5,162	3,200	4,286.03	3,740.51	3,740.51	3,740.51	3,740.51	3,740.51
8000208	201W9	5,162	3,200	3,707.73	3,235.82	3,235.82	3,235.82	3,235.82	3,235.82
8000210	201W10	5,807	3,600	414.07	361.37	361.37	361.37	361.37	361.37
SUBTOTAL:		38,712	24,000	22,202.67	19,376.75	19,376.75	19,376.75	19,376.75	19,376.75

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
SUNNY SLOPE WATER COMPANY (2)									
1900026	8	2,724	1,689	312.19	356.59	356.59	356.59	356.59	356.59
1902792	9	2,710	1,680	103.35	118.05	118.05	118.05	118.05	118.05
8000048	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000157	13	2,845	1,764	1,835.49	2,096.53	2,096.53	2,096.53	2,096.53	2,096.53
SUBTOTAL:		8,280	5,133	2,251.03	2,571.17	2,571.17	2,571.17	2,571.17	2,571.17
TEXACO INC.									
1900001	14	519	322	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		519	322	0.00	0.00	0.00	0.00	0.00	0.00
TRAN, HIEU (1)									
TRAN	8000218	NA	NA	4.56	5.00	5.00	5.00	5.00	5.00
SUBTOTAL:		NA	NA	4.56	5.00	5.00	5.00	5.00	5.00
TYLER NURSERY									
8000049	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
UNITED CONCRETE PIPE CORPORATION									
8000067	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
UNITED ROCK PRODUCTS CORPORATION (1)									
1900106	IRW-1	NA	NA	428.80	284.70	284.70	284.70	284.70	284.70
1902532	SIERRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903062	IRW-2	NA	NA	23.05	15.30	15.30	15.30	15.30	15.30
SUBTOTAL:		NA	NA	451.85	300.00	300.00	300.00	300.00	300.00
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY									
NA	EW4-3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0.00	0.00	0.00	0.00	0.00
VALENCIA HEIGHTS WATER COMPANY (2)									
8000051	1	NA	NA	583.71	0.00	0.00	0.00	0.00	0.00
8000052	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000054	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000055	3A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000120	5	565	350	0.00	0.00	0.00	0.00	0.00	0.00
8000180	6	1,129	700	0.00	342.86	342.86	342.86	457.14	457.14
8000211	7	1,371	850	0.00	257.14	257.14	257.14	342.86	342.86
SUBTOTAL:		3,065	1,900	583.71	600.00	600.00	600.00	800.00	800.00
VALECITO WATER COMPANY									
1901435	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901436	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901437	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901438	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901439	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901440	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

**APPENDIX A**

**PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
VALLEY COUNTY WATER DISTRICT (3)									
1900027	E MAIN	3,226	2,000	1,561.22	1,655.25	1,655.25	1,655.25	1,655.25	1,655.25
1900028	W MAIN	1,855	1,150	1,268.64	951.77	951.77	951.77	951.77	951.77
1900029	MORADA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900031	PADDY	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900032	E NIXON (JOAN)	4,194	2,600	1,728.42	2,151.83	2,151.83	2,151.83	2,151.83	2,151.83
1900034	ARROW	NA	3,400	17.71	4,033.00	4,033.00	4,033.00	4,033.00	4,033.00
1900035	B DAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901307	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902356	W NIXON (JOAN)	3,629	2,250	2,612.80	1,862.16	1,862.16	1,862.16	1,862.16	1,862.16
8000039	PALM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000060	LANTE (SA1-3)	5,484	3,400	4,301.61	4,033.00	4,033.00	4,033.00	4,033.00	4,033.00
8000185	SA1-1	3,871	2,400	415.08	1,613.00	1,613.00	1,613.00	1,613.00	1,613.00
8000186	SA1-2	0	0	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		22,259	17,200	11,905.48	16,300.00	16,300.00	16,300.00	16,300.00	16,300.00
VALLEY VIEW MUTUAL WATER COMPANY (2)									
1900363	1	310	192	0.00	0.00	0.00	0.00	0.00	0.00
1900364	2	766	475	590.50	511.00	511.00	511.00	511.00	511.00
1900365	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,076	667	590.50	511.00	511.00	511.00	511.00	511.00
VIA TRUST									
1903012	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
VIETNAMESE AMERICAN BUDDHIST TEMPLE (1)									
8000191	NA	NA	NA	6.37	5.00	5.00	5.00	5.00	5.00
SUBTOTAL		NA	NA	6.37	5.00	5.00	5.00	5.00	5.00
VULCAN MATERIALS COMPANY (CALMAT COMPANY) (1)									
1902920	E DUR	6,386	3,959	0.00	0.00	0.00	0.00	0.00	0.00
1903088	1 REL	4,068	2,522	275.06	250.61	250.61	250.61	250.61	250.61
8000063	W DUR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	TEMP/NEW PERM	NA	NA	441.55	402.30	402.30	402.30	402.30	402.30
SUBTOTAL:		10,454	6,481	716.61	652.91	652.91	652.91	652.91	652.91
WHITTIER, CITY OF (2)									
1901745	9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901746	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901747	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901748	12	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901749	13	645	400	592.17	695.67	776.65	776.65	776.65	776.65
8000021	FROM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000071	15	2,081	1,290	2,216.90	2,604.37	2,907.55	2,907.55	2,907.55	2,907.55
8000110	16	2,081	1,290	846.88	994.90	1,110.72	1,110.72	1,110.72	1,110.72
8000135	17	6,452	4,000	0.06	0.07	0.08	0.08	0.08	0.08
8000136	18	6,452	4,000	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		17,711	10,980	3,656.01	4,295.00	4,795.00	4,795.00	4,795.00	4,795.00

# **APPENDIX A**

## **PROJECTED GROUNDWATER DEMANDS FROM 2018-19 TO 2022-23**

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2017-18 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2018-19	2019-20	2020-21	2021-22	2022-23
WILMOTT, ERMA M.									
8000006	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
WOODLAND, RICHARD									
1902949	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902950	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY) (1)									
1902790	4	2,153	1,335	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		2,153	1,335	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY) (1)									
1900132	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900095	2	1,428	885	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,428	885	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK) (1)									
1900052	3	1,192	739	0.00	0.00	0.00	0.00	0.00	0.00
1900094	1	673	417	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,865	1,156	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		528,074	333,473	197,460.98	209,833.81	215,313.33	216,413.28	219,981.39	220,555.65

### **NOTES :**

GROUNDWATER PRODUCTION AND DEMANDS IN ACRE-FEET

GPM : GALLONS PER MINUTE

NA : NOT AVAILABLE

(1) GROUNDWATER DEMANDS PROJECTED BY WATERMASTER

(2) PROJECTED GROUNDWATER DEMANDS PROVIDED BY PRODUCER

(3) PROJECTED GROUNDWATER DEMANDS PROVIDED BY PRODUCER AND ADJUSTED BY WATERMASTER



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## **APPENDIX B.**

### **SIMULATED CHANGES IN GROUNDWATER ELEVATIONS AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN**



## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

#### ADAMS RANCH MUTUAL WATER COMPANY

01	1902106	Inactive	147.20	120.20	-27.00	
02	1902689	Inactive	147.20	120.20	-27.00	
03	8000182	Inactive	146.70	119.70	-27.00	

#### ALHAMBRA, CITY OF

MOEL (08)	1900010	Active	133.00	111.30	-21.70	Projected Groundwater Demands Provided by Producer
09	1900011	Active	136.10	115.20	-20.90	Projected Groundwater Demands Provided by Producer
10	1900012	Inactive	137.00	115.60	-21.40	
12	1900013	Active	136.70	115.80	-20.90	Projected Groundwater Demands Provided by Producer
13	1900014	Inactive	135.90	113.70	-22.20	
14	1900015	Active	132.50	111.20	-21.30	Projected Groundwater Demands Provided by Producer
15	1900016	Active	135.60	111.60	-24.00	Projected Groundwater Demands Provided by Producer
LON 1	1903014	Active	134.80	112.10	-22.70	Projected Groundwater Demands Provided by Producer
LON 2	1900017	Active	123.00	97.40	-25.60	Projected Groundwater Demands Provided by Producer
GARF	1900018	Inactive	138.50	119.90	-18.60	
11	1903014	Active	134.80	112.10	-22.70	Projected Groundwater Demands Provided by Producer
07	1903097	Active	135.10	113.10	-22.00	Projected Groundwater Demands Provided by Producer

#### AMARILLO MUTUAL WATER COMPANY

01	1900791	Active	144.60	118.10	-26.50	Projected Groundwater Demands Provided by Producer
02	1900792	Active	144.60	118.10	-26.50	Projected Groundwater Demands Provided by Producer

#### ARCADIA, CITY OF

LON 1	1901013	Active	169.10	141.50	-27.60	Projected Groundwater Demands Provided by Producer
LON 2	1901014	Active	169.00	141.50	-27.50	Projected Groundwater Demands Provided by Producer



## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
CAM REAL 3	8000213	Active	160.90	136.10	-24.80	Projected Groundwater Demands Provided by Producer
ST JO 2	8000177	Active	170.50	145.30	-25.20	Projected Groundwater Demands Provided by Producer
BAL 2	1902791	Inactive	153.20	128.30	-24.90	
PECK 1	1902854	Active	161.70	135.60	-26.10	Projected Groundwater Demands Provided by Producer
L OAK 1	8000127	Active	165.80	136.80	-29.00	Projected Groundwater Demands Provided by Producer
LGY 3	8000214	Active	153.50	131.90	-21.60	Projected Groundwater Demands Provided by Producer

#### AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY)

05 (01)	1902533	Active	545.20	534.10	-11.10	Projected Groundwater Demands Provided by Producer
06 (03)	1902535	Active	545.60	533.60	-12.00	Projected Groundwater Demands Provided by Producer
GENESIS 2 (05)	1902537	Inactive	195.30	164.80	-30.50	
01 (07)	8000072	Active	546.80	535.30	-11.50	Projected Groundwater Demands Provided by Producer
03 (08)	8000086	Active	546.10	534.90	-11.20	Projected Groundwater Demands Provided by Producer
02 (1 NORTH)	1902457	Active	547.50	536.40	-11.10	Projected Groundwater Demands Provided by Producer
04 (2 SOUTH)	1902458	Active	546.90	535.70	-11.20	Projected Groundwater Demands Provided by Producer
08 (AVWC 04)	1902115	Active	545.60	533.70	-11.90	Projected Groundwater Demands Provided by Producer
07 (AVWC 05)	1902116	Active	545.60	533.40	-12.20	Projected Groundwater Demands Provided by Producer
09 (AVWC 06)	1902117	Inactive	195.70	165.20	-30.50	
10 (AVWC 08)	8000103	Active	195.30	164.80	-30.50	Projected Groundwater Demands Provided by Producer
11	8000178	Active	547.60	536.40	-11.20	Projected Groundwater Demands Provided by Producer
12	8000179	Active	548.20	537.30	-10.90	Projected Groundwater Demands Provided by Producer

#### CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM

STA FE	1900354	Active	185.50	153.50	-32.00	Projected Groundwater Demands Provided by Producer
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## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

B V	1900355	Standby	179.60	149.70	-29.90	
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B V 2	8000216	Active	179.60	149.70	-29.90	Projected Groundwater Demands Provided by Producer
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FISH C	1900358	Standby	548.20	535.80	-12.40	
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WILEY	1902907	Active	544.30	528.20	-16.10	Projected Groundwater Demands Provided by Producer
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CR HV	1903018	Active	186.90	153.90	-33.00	Projected Groundwater Demands Provided by Producer
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ENCANTO	8000139	Active	540.40	526.00	-14.40	Projected Groundwater Demands Provided by Producer
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LAS L2	8000140	Active	534.70	520.00	-14.70	Projected Groundwater Demands Provided by Producer
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BACON	1900497	Active	536.80	522.60	-14.20	Projected Groundwater Demands Provided by Producer
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#### CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM

GUESS	1900918	Inactive	146.60	119.90	-26.70	
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MIVW 2	1900920	Active	147.60	122.30	-25.30	Projected Groundwater Demands Provided by Producer
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GRAND	1900926	Active	142.00	111.40	-30.60	Projected Groundwater Demands Provided by Producer
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ROSEMEAD	1900927	Inactive	141.30	113.90	-27.40	
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ROANOKE	1900934	Inactive	136.10	115.90	-20.20	
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LONGDEN	1900935	Active	129.00	104.50	-24.50	Projected Groundwater Demands Provided by Producer
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HOWLAND	1902424	Active	152.80	125.30	-27.50	Projected Groundwater Demands Provided by Producer
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MAR 3	1903019	Active	150.60	124.40	-26.20	Projected Groundwater Demands Provided by Producer
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DELMAR	1903059	Active	127.20	105.30	-21.90	Projected Groundwater Demands Provided by Producer
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HALL 2	8000175	Active	152.00	128.70	-23.30	Projected Groundwater Demands Provided by Producer
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#### CALIFORNIA COUNTRY CLUB

ARTES	1902531	Standby	161.50	131.60	-29.90	
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SYCAMORE	1903084	Standby	161.50	131.70	-29.80	
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#### CALIFORNIA DOMESTIC WATER COMPANY

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
02	1901181	Active	161.10	130.30	-30.80	Projected Groundwater Demands Provided by Producer
06	1902967	Active	162.50	132.80	-29.70	Projected Groundwater Demands Provided by Producer
03	1903057	Active	160.40	130.10	-30.30	Projected Groundwater Demands Provided by Producer
08	1903081	Active	160.10	130.20	-29.90	Projected Groundwater Demands Provided by Producer
05A	8000100	Active	161.10	129.70	-31.40	Projected Groundwater Demands Provided by Producer
14	8000174	Active	160.70	130.80	-29.90	Projected Groundwater Demands Provided by Producer
<b>CHAMPION MUTUAL WATER COMPANY</b>						
02	1902816	Inactive	165.70	137.40	-28.30	Impact from SGVWC Extraction
03	8000121	Inactive	165.70	137.40	-28.30	Impact from SGVWC Extraction
<b>CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL)</b>						
NA	8000138	Inactive	177.40	149.20	-28.20	
<b>COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARM INC.)</b>						
03	1902951	Inactive	162.30	131.90	-30.40	
05R	1903072	Active	162.70	132.10	-30.60	Groundwater Demands Projected by Watermaster
<b>COVINA, CITY OF</b>						
01	1901685	Inactive	290.90	252.30	-38.60	
02 (GRAND)	1901686	Inactive	290.90	252.30	-38.60	
<b>COVINA IRRIGATING COMPANY</b>						
BAL 3	1900882	Standby	181.00	150.00	-31.00	
BAL 1	1900885	Standby	181.20	150.20	-31.00	
BAL 2	1900883	Standby	181.10	150.00	-31.10	
<b>CROWN CITY PLATING COMPANY</b>						
01	8000012	Inactive	153.00	125.90	-27.10	
<b>DEL RIO MUTUAL WATER COMPANY</b>						
BURKETT	1900331	Active	160.30	131.00	-29.30	Groundwater Demands Projected by Watermaster

**DRIFTWOOD DAIRY**

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

01	1902924	Inactive	160.80	133.70	-27.10	
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#### EAST PASADENA WATER COMPANY, LTD.

09	1901508	Active	135.00	114.50	-20.50	Projected Groundwater Demands Provided by Producer
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11	8000217	Active	135.00	114.50	-20.50	Projected Groundwater Demands Provided by Producer
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#### EL MONTE, CITY OF

02A	1901692	Active	158.00	130.10	-27.90	Groundwater Demands Projected by Watermaster
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03	1901693	Standby	159.80	131.50	-28.30	
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04	1901694	Standby	159.20	130.80	-28.40	
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10	1901699	Active	159.90	131.60	-28.30	Groundwater Demands Projected by Watermaster
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12	1903137	Active	157.20	129.60	-27.60	Groundwater Demands Projected by Watermaster
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13	8000101	Active	158.00	130.10	-27.90	Groundwater Demands Projected by Watermaster
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#### GLEN DORA, CITY OF

11-E	1900826	Active	549.90	537.70	-12.20	Groundwater Demands Projected by Watermaster
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08-E	1900829	Active	541.20	532.20	-9.00	Groundwater Demands Projected by Watermaster
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09-E	1900830	Active	543.30	533.60	-9.70	Groundwater Demands Projected by Watermaster
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12-G	1900827	Active	541.20	532.20	-9.00	Groundwater Demands Projected by Watermaster
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10-E	1900828	Active	549.10	536.40	-12.70	Groundwater Demands Projected by Watermaster
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07-G	1900831	Inactive	195.00	164.50	-30.50	
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13-E	8000184	Active	543.00	527.80	-15.20	Groundwater Demands Projected by Watermaster
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02-E	1901526	Active	542.70	529.00	-13.70	Groundwater Demands Projected by Watermaster
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03-G	1901525	Inactive	193.00	162.50	-30.50	
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04-E	1901524	Inactive	193.30	162.90	-30.40	
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05-E	8000149	Active	545.50	532.40	-13.10	Groundwater Demands Projected by Watermaster
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## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

#### GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT

BAS-3	1902148	Active	729.30	677.60	-51.70	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
BAS-4	1902149	Active	725.50	674.40	-51.10	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
HIGHWAY	1902150	Active	729.60	677.20	-52.40	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
HIGHWAY 2	8000212	Active	730.20	678.00	-52.20	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
ART-3	1902842	Active	727.40	676.00	-51.40	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
COL-4	1902268	Active	542.50	489.00	-53.50	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
COL-6	1902270	Inactive	543.90	490.40	-53.50	
COL-8	1902272	Inactive	652.10	598.20	-53.90	
CITY	1902286	Active	1083.00	1066.00	-17.00	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
MALON	1902287	Active	1081.00	1063.00	-18.00	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster

#### GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRICT

S G 1	1900510	Active	139.30	111.00	-28.30	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
S G 2	1900511	Active	139.80	111.70	-28.10	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
SAX 3	1900514	Active	139.60	114.70	-24.90	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
SAX 4	8000146	Active	139.60	114.70	-24.90	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
JEF 1	1902017	Inactive	169.40	141.90	-27.50	
JEF 4	8000111	Active	169.40	141.90	-27.50	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
ENC 1	1902024	Active	145.30	118.20	-27.10	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
ENC 2	1902035	Active	144.90	117.70	-27.20	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
ENC 3	8000073	Active	144.30	117.10	-27.20	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
PER 1	1902027	Active	160.30	133.50	-26.80	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
GRA 2	1902461	Inactive	171.30	144.10	-27.20	
FAR 1	1902034	Active	164.00	136.90	-27.10	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
FAR 2	1902948	Active	163.90	136.80	-27.10	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
<b>GOULD ELECTRONICS INC. AND JOHNSON CONTROLS INC.</b>						
SEW	NA	Active	154.86	127.92	-26.94	Groundwater Demands Projected by Watermaster
DEW	NA	Active	147.37	120.80	-26.57	Groundwater Demands Projected by Watermaster
<b>HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM)</b>						
EL 4	1903006	Active	172.30	143.80	-28.50	Groundwater Demands Projected by Watermaster
EL 1	1901492	Active	172.40	143.90	-28.50	Groundwater Demands Projected by Watermaster
EL 3	1901493	Active	172.60	144.10	-28.50	Groundwater Demands Projected by Watermaster
<b>HEMLOCK MUTUAL WATER COMPANY</b>						
NORTH	1901178	Active	166.80	138.90	-27.90	Groundwater Demands Projected by Watermaster
SOUTH	1902806	Active	166.70	138.80	-27.90	Groundwater Demands Projected by Watermaster
<b>INDUSTRY WATERWORKS SYSTEM, CITY OF</b>						
01	1902581	Inactive	162.90	132.50	-30.40	
03	8000078	Inactive	162.90	132.50	-30.40	
04	8000096	Inactive	162.70	132.40	-30.30	
02	1902582	Inactive	163.00	132.60	-30.40	
05	8000097	Active	162.70	131.40	-31.30	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
<b>LA PUENTE VALLEY COUNTY WATER DISTRICT</b>						
02	1901460	Active	172.60	144.00	-28.60	BPOU Extraction Well Groundwater Demands Projected by Watermaster
04	8000062	Inactive	172.70	143.70	-29.00	
03	1902859	Active	172.90	144.30	-28.60	BPOU Extraction Well Groundwater Demands Projected by Watermaster

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
05	8000209	Active	172.70	143.70	-29.00	BPOU Extraction Well Groundwater Demands Projected by Watermaster
<b>LOS ANGELES, COUNTY OF</b>						
KEY WELL	3030F	Monitoring	177.60	148.10	-29.50	
WHI 1	1902579	Inactive	153.50	125.80	-27.70	
SF 1	8000070	Active	186.60	155.50	-31.10	Groundwater Demands Projected by Watermaster
BIG RED	8000088	Inactive	155.90	127.90	-28.00	
NEW LAKE	8000089	Inactive	152.70	125.30	-27.40	
<b>MILLERCOORS LLC (MILLER BREWERIES WEST, L.P./MILLER BREWING COMPANY)</b>						
01	8000075	Active	188.20	156.70	-31.50	Groundwater Demands Projected by Watermaster
02	8000076	Inactive	188.50	156.60	-31.90	
<b>MONROVIA, CITY OF</b>						
02	1900418	Active	169.10	141.60	-27.50	Groundwater Demands Projected by Watermaster
03	1900419	Active	168.70	141.30	-27.40	Groundwater Demands Projected by Watermaster
04	1900420	Active	169.90	142.20	-27.70	Groundwater Demands Projected by Watermaster
05	1940104	Active	168.90	141.40	-27.50	Groundwater Demands Projected by Watermaster
06	8000171	Active	168.30	141.00	-27.30	Groundwater Demands Projected by Watermaster
<b>MONTEREY PARK, CITY OF</b>						
01	1900453	Active	142.70	114.80	-27.90	Projected Groundwater Demands Provided by Producer
03	1900455	Inactive	142.70	114.60	-28.10	
05	1900457	Active	141.10	113.10	-28.00	Projected Groundwater Demands Provided by Producer
06	1900458	Inactive	143.10	115.10	-28.00	
07	1902372	Inactive	146.60	118.60	-28.00	
08	1902373	Inactive	147.60	119.70	-27.90	
09	1902690	Active	145.90	117.20	-28.70	Projected Groundwater Demands Provided by Producer

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
10	1902818	Active	139.90	111.20	-28.70	Projected Groundwater Demands Provided by Producer
12	1903033	Active	141.00	111.80	-29.20	Projected Groundwater Demands Provided by Producer
14	1903092	Inactive	146.20	118.20	-28.00	
FERN	8000126	Active	142.70	114.10	-28.60	Projected Groundwater Demands Provided by Producer
15	8000196	Active	141.30	112.80	-28.50	Projected Groundwater Demands Provided by Producer
<b>OWL ROCK PRODUCTS COMPANY</b>						
NA	1902241	Inactive	176.80	147.40	-29.40	
NA	1903119	Inactive	545.90	532.20	-13.70	Impact from Glendora Extraction
<b>POLOPOLUS ET AL.</b>						
01	1902169	Inactive	180.20	150.00	-30.20	
<b>RURBAN HOMES MUTUAL WATER COMPANY</b>						
NORTH 1	1900120	Active	167.00	138.90	-28.10	Groundwater Demands Projected by Watermaster
SOUTH 2	1900121	Inactive	166.90	138.70	-28.20	
<b>SAN GABRIEL COUNTRY CLUB</b>						
01	1900547	Active	128.40	103.90	-24.50	Impact from Alhambra Extraction Groundwater Demands Projected by Watermaster
<b>SAN GABRIEL COUNTY WATER DISTRICT</b>						
05 BRA	1901669	Inactive	138.20	112.70	-25.50	
08	1901672	Inactive	134.60	111.40	-23.20	
09	1902785	Active	130.30	106.20	-24.10	Projected Groundwater Demands Provided by Producer
10	1902786	Inactive	136.70	112.00	-24.70	
11	8000067	Active	138.00	112.60	-25.40	Projected Groundwater Demands Provided by Producer
12	8000123	Active	137.30	111.60	-25.70	Projected Groundwater Demands Provided by Producer
14	8000133	Active	135.70	112.00	-23.70	Projected Groundwater Demands Provided by Producer
15	8000220	Active	125.40	100.40	-25.00	Projected Groundwater Demands Provided by Producer
<b>SAN GABRIEL VALLEY WATER COMPANY</b>						



## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
G4A	1900725	Active	144.30	117.70	-26.60	Projected Groundwater Demands Provided by Producer
B1	1902635	Inactive	157.20	129.00	-28.20	
B5A	1900718	Inactive	159.60	128.90	-30.70	
B5B	1900719	Active	159.60	128.90	-30.70	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B5C	8000112	Inactive	161.60	131.30	-30.30	
B5D	8000160	Active	159.60	128.90	-30.70	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B5E	8000205	Active	160.70	129.20	-31.50	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B25A	8000187	Active	165.40	135.90	-29.50	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B25B	8000188	Active	165.40	135.90	-29.50	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B26A	8000189	Active	170.50	141.80	-28.70	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B26B	8000190	Active	170.50	141.80	-28.70	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
8A	1900736	Inactive	149.60	122.80	-26.80	
8B	1900746	Active	148.40	121.80	-26.60	SEMOU Extraction Well Projected Groundwater Demands Provided by Producer
8C	1900747	Active	145.80	120.20	-25.60	SEMOU Extraction Well Projected Groundwater Demands Provided by Producer
8E	8000113	Active	145.80	120.20	-25.60	SEMOU Extraction Well Projected Groundwater Demands Provided by Producer
8D	1903103	Active	145.80	121.10	-24.70	SEMOU Extraction Well Projected Groundwater Demands Provided by Producer
8F	8000169	Active	148.40	121.90	-26.50	SEMOU Extraction Well Projected Groundwater Demands Provided by Producer
1B	1900729	Active	164.60	135.80	-28.80	Projected Groundwater Demands Provided by Producer
1C	1902946	Inactive	164.60	135.80	-28.80	

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
1D	8000102	Active	164.60	135.80	-28.80	Projected Groundwater Demands Provided by Producer
1E	8000172	Active	164.40	135.90	-28.50	Projected Groundwater Demands Provided by Producer
2C	1900749	Destroyed	160.70	134.50	-26.20	
2D	1902857	Active	159.10	133.70	-25.40	Projected Groundwater Demands Provided by Producer
2E	8000065	Active	160.90	134.50	-26.40	Projected Groundwater Demands Provided by Producer
2F	8000197	Active	160.90	134.50	-26.40	Projected Groundwater Demands Provided by Producer
11A	1900739	Active	160.00	130.40	-29.60	Projected Groundwater Demands Provided by Producer
11B	1900745	Active	160.20	130.70	-29.50	Projected Groundwater Demands Provided by Producer
11C	1902713	Active	160.30	130.80	-29.50	Projected Groundwater Demands Provided by Producer
B4B	1902858	Inactive	168.00	139.20	-28.80	
B4C	1902947	Inactive	168.00	139.20	-28.80	
B6C	1903093	Active	172.10	143.70	-28.40	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B6D	8000098	Active	172.10	143.70	-28.40	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B7C	8000068	Destroyed	178.70	153.10	-25.60	
B7E	8000122	Active	178.70	153.10	-25.60	Projected Groundwater Demands Provided by Producer
B2	1902525	Inactive	157.40	129.10	-28.30	
B11A	1901439	Destroyed	175.40	149.00	-26.40	
B11B	8000108	Active	175.20	148.90	-26.30	Projected Groundwater Demands Provided by Producer
B9B	8000099	Active	175.50	149.10	-26.40	Projected Groundwater Demands Provided by Producer
B24A	8000203	Active	179.90	154.50	-25.40	BPOU Extraction Well Projected Groundwater Demands Provided by Producer
B24B	8000204	Active	179.30	153.70	-25.60	BPOU Extraction Well Projected Groundwater Demands Provided by Producer

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

#### SIERRA LA VERNE COUNTRY CLUB

01	8000124	Inactive	1085.00	1070.00	-15.00	
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#### SONOCO PRODUCTS COMPANY

02	1902971	Active	166.90	137.90	-29.00	Groundwater Demands Projected by Watermaster
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03	8000137	Active	166.20	137.20	-29.00	Groundwater Demands Projected by Watermaster
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#### SOUTH PASADENA, CITY OF

GRAV 2	1901679	Active	137.70	118.60	-19.10	Projected Groundwater Demands Provided by Producer
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WIL 2	1901681	Inactive	133.30	107.40	-25.90	
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WIL 3	1901682	Active	132.80	103.20	-29.60	Projected Groundwater Demands Provided by Producer
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WIL 4	1903086	Active	133.20	105.60	-27.60	Projected Groundwater Demands Provided by Producer
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#### SOUTHERN CALIFORNIA EDISON COMPANY

110RH	8000046	Active	175.00	146.00	-29.00	Groundwater Demands Projected by Watermaster
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#### STERLING MUTUAL WATER COMPANY

NEW SO.	8000132	Active	164.10	135.60	-28.50	Groundwater Demands Projected by Watermaster
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NORTH	1902096	Active	164.10	135.60	-28.50	Groundwater Demands Projected by Watermaster
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#### SUBURBAN WATER SYSTEMS

121W-1	8000181	Active	180.00	151.30	-28.70	Projected Groundwater Demands Provided by Producer
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125W-2	8000087	Inactive	206.80	178.20	-28.60	
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126W-2	8000092	Inactive	208.60	179.90	-28.70	
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139W-2	1901599	Inactive	177.80	149.00	-28.80	
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139W-4	8000069	Standby	177.70	148.90	-28.80	
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139W-5	8000095	Inactive	177.60	148.80	-28.80	
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139W-6	8000152	Inactive	177.90	149.20	-28.70	
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140W-3	1903067	Standby	173.30	145.50	-27.80	
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140W-4	8000093	Inactive	173.30	145.50	-27.80	
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## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
140W-5	8000145	Active	173.20	145.20	-28.00	Projected Groundwater Demands Provided by Producer
142W-2	8000183	Active	177.20	147.90	-29.30	Projected Groundwater Demands Provided by Producer
147W-3	8000077	Active	176.40	150.10	-26.30	Projected Groundwater Demands Provided by Producer
151W-2	8000207	Active	175.30	147.70	-27.60	Projected Groundwater Demands Provided by Producer
155W-1	1902819	Inactive	242.60	227.70	-14.90	
201W-9	8000208	Active	152.30	125.20	-27.10	Projected Groundwater Demands Provided by Producer
201W-4	1901433	Standby	152.40	125.50	-26.90	
201W-7	8000195	Active	150.40	123.90	-26.50	Projected Groundwater Demands Provided by Producer
201W-8	8000198	Active	151.60	125.10	-26.50	Projected Groundwater Demands Provided by Producer
201W-10	8000210	Active	151.80	125.00	-26.80	Projected Groundwater Demands Provided by Producer
<b>SUNNY SLOPE WATER COMPANY</b>						
08	1900026	Active	136.10	111.50	-24.60	Projected Groundwater Demands Provided by Producer
09	1902792	Active	135.80	111.80	-24.00	Projected Groundwater Demands Provided by Producer
10	8000048	Inactive	145.90	122.30	-23.60	
13	8000157	Active	128.90	104.80	-24.10	Projected Groundwater Demands Provided by Producer
<b>TYLER NURSERY</b>						
NA	8000049	Inactive	156.70	128.60	-28.10	
<b>UNITED CONCRETE PIPE CORPORATION</b>						
NA	8000067	Active	138.00	112.60	-25.40	Projected Groundwater Demands Provided by Producer
<b>UNITED ROCK PRODUCTS CORPORATION</b>						
IRW-1	1900106	Active	176.00	147.10	-28.90	Groundwater Demands Projected by Watermaster
IRW-2	1903062	Active	176.10	147.10	-29.00	Groundwater Demands Projected by Watermaster
<b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</b>						

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		

EW4-3	EPAEW403	Remedial	153.80	126.20	-27.60	WNOU Extraction (Inactive)
EW4-4	EPAEW404	Remedial	153.00	125.70	-27.30	WNOU Extraction (Inactive)
EW4-5	EPAEW405	Remedial	152.40	125.30	-27.10	WNOU Extraction (Active) Groundwater Demands Projected by Watermaster
EW4-9	EPAEW409	Remedial	152.40	125.30	-27.10	WNOU Extraction (Inactive)
EW4-6	8000201	Remedial	150.50	124.40	-26.10	WNOU Extraction (Active) Groundwater Demands Projected by Watermaster
EW4-7	EPAEW407	Remedial	153.10	125.80	-27.30	WNOU Extraction (Active) Groundwater Demands Projected by Watermaster
EW4-8	EPAEW408	Remedial	154.00	126.30	-27.70	WNOU Extraction (Inactive)

#### VALENCIA HEIGHTS WATER COMPANY

01	8000051	Inactive	215.30	186.20	-29.10	
02	8000052	Inactive	215.30	186.20	-29.10	
03A	8000055	Inactive	223.40	193.80	-29.60	
04	8000054	Inactive	206.00	176.90	-29.10	
05	8000120	Active	224.40	194.60	-29.80	Projected Groundwater Demands Provided by Producer
06	8000180	Active	215.60	186.40	-29.20	Projected Groundwater Demands Provided by Producer
07	8000211	Active	224.60	194.80	-29.80	Projected Groundwater Demands Provided by Producer

#### VALLEY COUNTY WATER DISTRICT

E MAINE	1900027	Active	177.70	147.90	-29.80	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
W MAINE	1900028	Active	177.70	147.90	-29.80	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
MORADA	1900029	Inactive	190.10	159.50	-30.60	
E NIXON (JOAN)	1900032	Active	177.10	147.30	-29.80	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
W NIXON (JOAN)	1902356	Active	176.60	147.30	-29.30	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
ARROW	1900034	Inactive	183.00	150.00	-33.00	BPOU Extraction
LANTE (SA1-3)	8000060	Active	182.30	149.90	-32.40	Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
PALM	8000039	Inactive	175.00	146.00	-29.00	
B DALTON	1900035	Inactive	176.80	147.80	-29.00	

## APPENDIX B

### SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN (ASSUMES "DRY" HYDROLOGICAL CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT DELIVERIES)

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)	REMARKS
			2017-18	2022-23		
PADDY LN	1900031	Inactive	173.50	144.90	-28.60	
SA1-1	8000185	Active	185.10	153.40	-31.70	BPOU Extraction Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
SA1-2	8000186	Standby	183.40	152.40	-31.00	BPOU Extraction Projected Groundwater Demands Provided by Producer and Adjusted by Watermaster
<b>VALLEY VIEW MUTUAL WATER COMPANY</b>						
01	1900363	Active	174.00	145.10	-28.90	Projected Groundwater Demands Provided by Producer
02	1900364	Active	174.00	145.10	-28.90	Projected Groundwater Demands Provided by Producer
<b>VULCAN MATERIALS COMPANY (CALMAT COMPANY)</b>						
REL 1	1903088	Active	191.00	158.90	-32.10	Groundwater Demands Projected by Watermaster
<b>WHITTIER, CITY OF</b>						
13	1901749	Active	153.20	125.70	-27.50	Projected Groundwater Demands Provided by Producer
15	8000071	Active	153.00	125.10	-27.90	Projected Groundwater Demands Provided by Producer
16	8000110	Active	152.70	125.10	-27.60	Projected Groundwater Demands Provided by Producer
17	8000135	Active	152.90	125.30	-27.60	Projected Groundwater Demands Provided by Producer
18	8000136	Active	152.50	125.20	-27.30	Projected Groundwater Demands Provided by Producer
<b>WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY)</b>						
04	1902790	Inactive	153.10	126.30	-26.80	
<b>WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY)</b>						
02	1900095	Inactive	153.40	126.30	-27.10	
<b>WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)</b>						
03	1900052	Inactive	153.30	126.30	-27.00	
01	1900094	Inactive	153.10	126.40	-26.70	
<b>AVERAGE CHANGE</b>					<b>-26.97</b>	

(1) SIMULATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL

(2) DIFFERENCE BETWEEN 2022-23 AND 2017-18 SIMULATED ELEVATIONS



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## **APPENDIX C.**

### **HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS AND NITRATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION**





**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
ADAMS RANCH MUTUAL WATER COMPANY									
01	MUNICIPAL	INACTIVE	TCE	2.2	05/88	ND	02/97		
			NITRATE (N)	21.9	04/92	8.8	02/97		
			CLO4	NA	NA	NA	NA		
02	MUNICIPAL	INACTIVE	TCE	3.5	08/86	2.5	09/86		
			NITRATE (N)	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
03	MUNICIPAL	INACTIVE	TCE	22.0	05/15	14.0	02/16		
			PCE	10.0	05/15	6.6	02/16		
			NITRATE (N)	4.7	03/04	5	05/15		
			CLO4	ND	08/08	ND	02/16		
			AS	ND	05/03	ND	05/15		
			CR6	1.1	08/13	1.1	08/13		
ALHAMBRA, CITY OF									
07	MUNICIPAL	ACTIVE	TCE	14.0	04/18	14.0	04/18	VULNERABLE (VOC,NO3(N))	
			PCE	0.8	04/07	0.6	04/18		
			C-1,2-DCE	2.0	04/18	2.0	04/18		
			CTC	0.6	02/85	ND	04/18		
			NITRATE (N)	12.0	04/18	12.0	04/18		
			CLO4	2.4	10/07	ND	04/18		
			AS	0.7	07/96	ND	05/17		
			CR6	9.0	07/01	8.3	05/17		
09	MUNICIPAL	STANDBY	TCE	21.1	08/08	12.0	04/18	VULNERABLE (CLO4,VOC,NO3(N))	
			C-1,2-DCE	2.3	10/07	1.5	04/18		
			NITRATE (N)	14.0	12/16	13.0	05/17		
			CLO4	4.7	02/14	ND	05/17		
			AS	0.9	07/96	ND	01/17		
			CR6	5.7	12/05	4.7	01/17		
10	IRRIGATION	INACTIVE	TCE	30.1	02/09	22.0	10/10		
			C-1,2-DCE	5.8	03/05	ND	10/10		
			1,1-DCE	0.5	03/05	ND	10/10		
			NITRATE (N)	12.7	01/07	12.4	10/10		
			CLO4	ND	08/97	ND	08/97		
11	MUNICIPAL	ACTIVE	PCE	4.7	05/12	2.6	04/18	VULNERABLE (VOC,NO3(N))	
			TCE	4.2	05/89	0.5	07/17		
			C-1,2-DCE	1.5	04/08	ND	07/17		
			NITRATE (N)	10.8	10/12	8.6	04/18		
			CLO4	ND	08/97	ND	04/18		
			AS	0.8	07/96	ND	04/18		
12	MUNICIPAL	STANDBY	CR6	7.7	06/01	6.9	04/18	VULNERABLE (NO3(N),VOC)	
			TCE	39.4	08/08	20.0	09/17		
			PCE	1.7	01/14	1.4	04/18		
			C-1,2-DCE	41.0	05/17	26.0	09/17		
			1,1-DCE	0.8	09/08	0.5	04/18		
			T-1,2-DCE	0.9	09/08	0.6	04/18		
13	MUNICIPAL	INACTIVE	NITRATE (N)	9.5	01/14	6.9	09/17		
			CLO4	ND	08/08	ND	04/18		
			AS	ND	08/89	ND	09/17		
			CR6	4.5	09/17	4.5	09/17		
			TCE	0.5	08/07	ND	04/14		
			NITRATE (N)	13.3	07/13	13.3	07/13		
14	MUNICIPAL	ACTIVE	CLO4	ND	03/97	ND	01/14	VULNERABLE (NO3(N))	
			AS	8.0	06/78	ND	11/10		
			CR6	7.1	08/01	4.6	09/13		
			TCE	2.4	08/08	1.0	04/18		
			NITRATE (N)	10.4	08/12	2.9	05/17		
15	MUNICIPAL	ACTIVE	CLO4	ND	08/97	ND	04/18	VULNERABLE (NO3(N))	
			AS	0.6	07/96	ND	10/16		
			CR6	5.8	06/01	4.8	10/16		
			PCE	0.8	10/14	ND	04/18		
			NITRATE (N)	6.3	10/12	2.3	05/17		

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
GARF	MUNICIPAL	INACTIVE	AS	1.5	07/96	ND	04/16	
			CR6	4.1	12/00	3.2	04/16	
			TCE	11.0	08/82	ND	09/93	
			PCE	0.5	11/87	ND	09/93	
			CTC	0.1	04/80	ND	09/93	
			1,1,2,2-PCA	1.0	11/87	ND	09/93	
			NITRATE (N)	15.4	08/89	12.1	09/93	
			AS	ND	06/80	ND	08/92	
			CLO4	NA	NA	NA	NA	
LON 1	MUNICIPAL	ACTIVE	PCE	0.3	07/81	ND	07/17	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	7.5	09/11	6.3	05/17	
			CLO4	5.0	12/97	ND	05/18	
			AS	2.4	07/95	ND	07/16	
			CR6	7.2	06/01	6.4	07/16	
LON 2	MUNICIPAL	ACTIVE	PCE	1.3	06/10	0.6	04/18	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	11.4	04/86	5.3	02/17	
			CLO4	5.6	07/97	ND	04/18	
			AS	0.8	07/96	ND	04/17	
			CR6	9.5	06/01	6.8	04/17	
MOEL (8)	MUNICIPAL	ACTIVE	TCE	23.0	07/14	16.0	07/17	VULNERABLE (VOC,NO3(N))
			PCE	1.6	07/08	0.7	04/18	
			C-1,2-DCE	2.6	05/17	1.6	04/18	
			NITRATE (N)	17.2	07/08	12.0	07/17	
			CLO4	ND	12/99	ND	04/18	
			AS	0.9	07/96	ND	07/17	
			CR6	7.2	07/17	7.2	07/17	
AMARILLO MUTUAL WATER COMPANY								
01	MUNICIPAL	ACTIVE	PCE	5.5	10/99	2.9	05/18	VULNERABLE (VOC,NO3(N))
			TCE	2.1	11/17	1.7	05/18	
			CTC	0.1	08/82	ND	11/17	
			NITRATE (N)	6.2	10/99	4.5	11/17	
			CLO4	ND	08/97	ND	08/17	
			AS	0.5	07/96	ND	08/16	
			CR6	8.6	08/16	8.6	08/16	
02	MUNICIPAL	ACTIVE	PCE	6.3	08/16	5.2	05/18	VULNERABLE (NO3(N),VOC)
			TCE	3.1	05/18	3.1	05/18	
			NITRATE (N)	6.8	02/96	4.8	05/18	
			CLO4	ND	08/97	ND	08/17	
			AS	0.4	07/96	ND	08/16	
			CR6	6.9	08/13	5.9	08/16	
ANDERSON FAMILY MARITAL TRUST								
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
ARCADIA, CITY OF								
BAL 1	MUNICIPAL	DESTROYED	VOCS	ND	09/98	ND	09/98	
			NITRATE (N)	11.7	04/78	0.7	09/98	
			CLO4	NA	NA	NA	NA	
BAL 2	MUNICIPAL	INACTIVE	VOCS	ND	05/89	ND	06/09	
			NITRATE (N)	7.5	05/08	6.3	06/09	
			CLO4	ND	08/97	ND	07/08	
			AS	0.7	08/96	ND	03/09	
			CR6	11.1	06/01	11.1	06/01	
CAM REAL 1	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	05/92	
			NITRATE (N)	6.3	05/91	5.1	08/92	
			CLO4	NA	NA	NA	NA	
			AS	ND	03/09	ND	08/92	
CAM REAL 2	MUNICIPAL	DESTROYED	VOCS	ND	05/89	ND	06/98	
			NITRATE (N)	13.1	05/92	8.8	05/98	
			CLO4	ND	08/97	ND	12/97	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
CAM REAL 3	MUNICIPAL	ACTIVE	AS	0.4	08/96	ND	06/98	
			VOCS	ND	03/11	ND	10/17	
			NITRATE (N)	4.4	01/16	4.0	01/18	
			CLO4	ND	03/11	ND	07/17	
			AS	ND	03/10	ND	01/16	
			CR6	6.4	09/13	4.4	01/16	
L OAK 1	MUNICIPAL	ACTIVE	PCE	1.4	01/08	ND	04/17	VULNERABLE (VOC,NO3(N))
			TCE	6.0	02/15	5.0	01/18	
			NITRATE (N)	7.0	05/15	6.7	04/18	
			CLO4	ND	08/97	ND	07/17	
			AS	0.6	08/96	ND	04/17	
			CR6	3.1	04/17	3.1	04/17	
LGY	MUNICIPAL	DESTROYED	VOCS	ND	01/08	ND	01/08	
			NITRATE (N)	23.5	01/08	23.5	01/08	
			CLO4	6.0	01/08	6.0	01/08	
LGY 3	MUNICIPAL	ACTIVE	VOCS	ND	06/11	ND	10/17	
			NITRATE (N)	2.1	01/15	1.4	01/18	
			CLO4	ND	06/11	ND	07/17	
			AS	ND	03/11	ND	01/17	
			CR6	8.7	01/17	8.7	01/17	
LON 1	MUNICIPAL	ACTIVE	TCE	30.0	07/87	ND	04/18	VULNERABLE (VOC,NO3(N))
			PCE	2.7	07/87	ND	04/18	
			1,1-DCE	4.1	06/87	ND	07/17	
			1,2-DCA	1.4	07/87	ND	07/17	
			1,1,1-TCA	4.6	07/87	ND	07/17	
			NITRATE (N)	14.0	07/16	8.5	04/18	
			CLO4	ND	12/97	ND	07/17	
			AS	ND	04/85	ND	06/17	
			CR6	3.3	06/17	3.3	06/17	
LON 2	MUNICIPAL	ACTIVE	TCE	62.0	01/85	ND	04/18	VULNERABLE (VOC,NO3(N))
			PCE	7.7	01/82	ND	04/18	
			CTC	2.6	09/87	ND	07/17	
			1,1-DCE	0.9	05/87	ND	07/17	
			1,1,1-TCA	12.0	01/85	ND	07/17	
			NITRATE (N)	24.6	05/85	18.0	04/18	
			CLO4	ND	07/97	ND	07/17	
			AS	0.7	08/96	ND	01/16	
			CR6	4.7	01/16	4.7	01/16	
PECK 1	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	04/18	
			NITRATE (N)	2.5	08/09	0.4	04/18	
			CLO4	ND	08/97	ND	07/17	
			AS	2.4	09/94	ND	06/17	
			CR6	1.0	11/00	ND	06/17	
ST JO 1	MUNICIPAL	DESTROYED	TCE	5.4	01/02	4.8	02/02	
			PCE	2.7	08/91	2.2	02/02	
			NITRATE (N)	13.6	06/96	10.4	06/02	
			CLO4	1.0	08/97	ND	01/02	
			AS	0.3	08/96	ND	06/01	
ST JO 2	MUNICIPAL	INACTIVE	TCE	2.4	12/09	1.1	07/17	
			PCE	9.8	09/16	7.8	07/17	
			NITRATE (N)	11.5	12/04	10.0	07/17	
			CLO4	8.6	06/02	ND	07/17	
			AS	ND	06/02	ND	04/17	
			CR6	3.2	11/02	2.6	04/17	
ATTALLA, MARY L.								
NA	IRRIGATION	INACTIVE	VOCS	ND	09/96	ND	04/98	
			NITRATE (N)	4.4	04/98	4.4	04/98	
			CLO4	ND	04/98	ND	04/98	
AZUSA ASSOCIATES LLC								
DALTON	IRRIGATION	INACTIVE	VOCS	ND	03/98	ND	03/98	
			NITRATE (N)	1.1	03/98	1.1	03/98	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			CLO4	ND	03/98	ND	03/98	
AZUSA, CITY OF								
AVWC 01	MUNICIPAL	DESTROYED	VOCS	ND	09/97	ND	09/97	
			NITRATE (N)	12.4	08/87	7.3	09/97	
			CLO4	5.6	09/97	5.6	09/97	
AVWC 02	MUNICIPAL	DESTROYED	VOCS	ND	01/98	ND	01/98	
			NITRATE (N)	9.7	01/98	9.7	01/98	
			CLO4	6.9	01/98	6.9	01/98	
AVWC 07	MUNICIPAL	DESTROYED	TCE	4.5	01/80	ND	03/85	
			NITRATE (N)	24.2	02/77	8.9	12/85	
			CLO4	NA	NA	NA	NA	
GENESIS 1 (OLD 04)	MUNICIPAL	DESTROYED	MTBE	1.2	11/98	1.1	11/98	
			NITRATE (N)	28.6	06/87	24.8	11/98	
			CLO4	7.2	11/98	7.2	11/98	
			AS	5.0	08/79	ND	02/88	
GENESIS 2 (OLD 05)	MUNICIPAL	INACTIVE	TCE	250.0	12/79	3.7	02/08	
			PCE	95.0	04/80	1.0	02/08	
			1,1-DCE	18.0	02/08	18.0	02/08	
			1,1,1-TCA	2.5	02/08	2.5	02/08	
			NITRATE (N)	23.8	02/93	3.6	02/08	
			CLO4	ND	11/98	ND	02/08	
			AS	ND	12/89	ND	02/08	
GENESIS 3 (OLD 06)	MUNICIPAL	DESTROYED	PCE	3.5	03/97	ND	03/97	
			TCE	0.1	01/80	ND	03/97	
			NITRATE (N)	25.5	06/86	ND	04/01	
			CLO4	NA	NA	NA	NA	
01 (OLD 07)	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	11/17	VULNERABLE (AS)
			NITRATE (N)	1.2	08/17	1.2	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	5.1	08/95	2.3	08/16	
			CR6	1.0	11/00	ND	08/16	
02 (01 NORTH)	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	08/17	
			NITRATE (N)	1.2	03/92	ND	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	4.3	07/96	4.1	08/17	
			CR6	1.0	11/00	ND	08/17	
03 (OLD 08)	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/17	
			NITRATE (N)	1.0	03/95	ND	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	5.0	08/06	2.9	08/15	
			CR6	1.0	11/00	ND	08/15	
04 (02 SOUTH)	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/17	
			NITRATE (N)	1.2	06/89	ND	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	5.0	08/05	4.5	08/17	
			CR6	1.0	11/00	ND	08/17	
05 (OLD 01)	MUNICIPAL	ACTIVE	TCE	1.0	12/80	ND	05/18	VULNERABLE (NO3(N))
			PCE	0.3	12/80	ND	05/18	
			NITRATE (N)	5.2	07/95	2.5	05/18	
			CLO4	ND	07/97	ND	05/18	
			AS	2.6	07/95	ND	08/16	
			CR6	1.0	11/00	ND	08/16	
06 (OLD 03)	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	08/17	
			NITRATE (N)	3.2	03/95	0.8	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	3.5	07/95	ND	08/16	
			CR6	1.0	11/00	ND	08/16	
07 (AVWC 05)	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/17	VULNERABLE (NO3(N))
			NITRATE (N)	5.6	04/95	0.9	08/17	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
08 (AVWC 04)	MUNICIPAL	ACTIVE	CLO4	ND	06/97	ND	08/17	
			AS	3.5	08/14	2.2	08/17	
			CR6	1.0	11/00	ND	08/17	
			TCE	0.8	03/94	ND	08/17	
			NITRATE (N)	2.7	09/94	1.0	08/17	
			CLO4	ND	07/97	ND	08/17	
			AS	4.2	07/95	2.4	08/16	
			CR6	1.0	11/00	ND	08/16	
09 (AVWC 06)	MUNICIPAL	INACTIVE	PCE	7.4	12/87	0.6	01/99	
			NITRATE (N)	26.6	12/89	19.0	01/99	
			CLO4	NA	NA	NA	NA	
			AS	ND	02/87	ND	01/99	
10 (AVWC 08)	MUNICIPAL	ACTIVE	PCE	1.0	05/15	0.6	05/18	VULNERABLE (CLO4,NO3(N))
			NITRATE (N)	14.9	05/08	12.0	05/18	
			CLO4	12.6	08/05	4.4	05/18	
			AS	1.8	07/96	ND	11/15	
			CR6	2.5	11/15	2.5	11/15	
11	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/17	
			NITRATE (N)	0.8	08/08	0.8	08/17	
			CLO4	ND	06/02	ND	08/17	
			AS	4.0	08/05	2.8	08/17	
			CR6	0.2	08/13	ND	08/17	
12	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/17	
			NITRATE (N)	0.9	08/08	0.6	08/17	
			CLO4	ND	06/02	ND	08/17	
			AS	4.0	08/05	2.9	08/17	
			CR6	0.5	08/13	ND	08/17	
B & B RED-I-MIX CONCRETE INC.								
03	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
BANKS, GALE & VICKI								
NA	IRRIGATION	ACTIVE	VOCS	ND	08/96	ND	10/17	
			NITRATE (N)	4.7	10/98	3.4	10/17	
			CLO4	ND	09/97	ND	09/97	
BASELINE WATER COMPANY								
01	IRRIGATION	DESTROYED	VOCS	ND	02/98	ND	02/98	
			NITRATE (N)	22.5	02/98	22.5	02/98	
			CLO4	12.9	02/98	12.9	02/98	
02	IRRIGATION	DESTROYED	VOCS	ND	11/98	ND	11/98	
			NITRATE (N)	16.8	11/98	16.8	11/98	
			CLO4	10.6	11/98	10.6	11/98	
03	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
BEVERLY ACRES MUTUAL WATER USERS ASSOCIATION								
ROSE HILLS	MUNICIPAL	DESTROYED	TCE	8.4	10/88	2.5	03/93	
			PCE	6.0	10/88	2.8	03/93	
			C-1,2-DCE	8.0	08/86	2.4	03/93	
			NITRATE (N)	5.1	08/86	3.3	09/90	
			CLO4	NA	NA	NA	NA	
			AS	ND	09/89	ND	08/91	
BIRENBAUM, MAX								
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
BOTELLO WATER COMPANY								
NA	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
BURBANK DEVELOPMENT COMPANY								
BURB	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM								
B V	MUNICIPAL	STANDBY	VOCS	ND	02/85	ND	08/16	VULNERABLE (AS)
			NITRATE (N)	0.9	10/10	0.7	08/16	
			CLO4	ND	06/97	ND	06/17	
			AS	6.0	07/93	3.0	08/16	
			CR6	1.0	12/00	0.5	03/13	
B V 2	MUNICIPAL	ACTIVE	VOCS	ND	03/12	ND	12/17	
			NITRATE (N)	0.9	12/14	0.7	09/17	
			CLO4	ND	09/12	ND	06/17	
			AS	ND	12/14	ND	08/16	
			CR6	1.0	04/11	ND	12/16	
BACON	MUNICIPAL	ACTIVE	VOCS	ND	09/15	ND	09/17	VULNERABLE (AS)
			NITRATE (N)	2.3	10/81	1.6	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	6.0	09/93	ND	09/16	
			CR6	0.4	06/11	ND	12/16	
CR HV	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/17	
			NITRATE (N)	1.9	12/13	1.4	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	3.0	09/04	ND	09/16	
			CR6	1.0	12/00	ND	09/16	
ENCANTO	MUNICIPAL	ACTIVE	VOCS	ND	12/92	ND	12/17	
			NITRATE (N)	2.6	12/92	1.0	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	4.6	08/95	2.5	09/16	
			CR6	1.0	12/00	ND	09/16	
FISH C	MUNICIPAL	STANDBY	VOCS	ND	02/85	ND	03/14	
			NITRATE (N)	1.5	11/94	0.6	12/13	
			CLO4	ND	06/97	ND	09/14	
			AS	13.0	09/80	ND	10/10	
			CR6	1.0	12/00	0.1	03/13	
LAS L	MUNICIPAL	DESTROYED	VOCS	ND	02/85	ND	06/91	
			NITRATE (N)	2.7	08/80	0.9	09/91	
			CLO4	NA	NA	NA	NA	
			AS	18.0	06/78	ND	11/94	
LAS L2	MUNICIPAL	ACTIVE	TCE	1.6	08/96	ND	09/17	
			NITRATE (N)	3.7	12/92	1.3	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	3.1	08/95	2.0	09/16	
			CR6	1.0	06/01	ND	09/16	
MT AVE	MUNICIPAL	DESTROYED	TCE	16.5	07/87	ND	09/93	
			PCE	1.0	08/82	ND	09/93	
			1,1,1-TCA	8.4	04/85	ND	09/93	
			1,1-DCE	3.4	07/87	ND	09/93	
			T-1,2-DCE	2.0	04/85	ND	09/93	
			NITRATE (N)	14.7	05/89	2.3	09/93	
			CLO4	NA	NA	NA	NA	
			AS	ND	05/89	ND	05/89	
STA FE	MUNICIPAL	ACTIVE	TCE	3.3	04/84	ND	09/17	VULNERABLE (VOC,NO3(N))
			NITRATE (N)	13.3	01/80	ND	09/17	
			CLO4	ND	06/97	ND	06/17	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
WILEY	MUNICIPAL	ACTIVE	AS	3.0	08/79	ND	09/16	
			CR6	1.0	12/00	ND	09/16	
			VOCS	ND	09/01	ND	09/17	
			NITRATE (N)	2.5	03/81	1.5	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	2.0	09/09	ND	09/16	
			CR6	1.0	12/00	ND	09/16	
			CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM					
BR 1	MUNICIPAL	DESTROYED	CTC	0.5	12/96	0.5	12/96	
			TCE	27.0	07/93	27.0	12/96	
			PCE	9.0	07/93	7.7	12/96	
			NITRATE (N)	7.1	12/96	7.1	12/96	
			CLO4	NA	NA	NA	NA	
			AS	1.0	03/81	ND	10/81	
BR 2	MUNICIPAL	DESTROYED	TCE	17.0	12/96	17.0	12/96	
			PCE	6.4	12/96	6.4	12/96	
			NITRATE (N)	5.7	07/93	5.7	12/96	
			CLO4	NA	NA	NA	NA	
			AS	ND	03/81	ND	10/81	
DELMAR	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/17	VULNERABLE (AS)
			NITRATE (N)	4.5	06/14	4.4	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	5.0	07/96	2.9	09/16	
			CR6	5.7	09/16	5.7	09/16	
GRAND	MUNICIPAL	ACTIVE	TCE	4.8	03/07	2.6	12/17	VULNERABLE (VOC)
			PCE	2.1	12/08	1.4	12/17	
			NITRATE (N)	2.5	09/03	1.8	09/17	
			CLO4	ND	08/97	ND	06/17	
			AS	0.4	07/96	ND	09/16	
			CR6	10.4	11/16	10.0	12/17	
GUESS	MUNICIPAL	INACTIVE	TCE	5.2	09/99	5.2	12/01	
			PCE	5.4	12/01	5.4	12/01	
			NITRATE (N)	4.5	05/01	4.3	09/01	
			CLO4	ND	08/97	ND	03/00	
			AS	0.4	07/96	ND	02/01	
			CR6	7.8	10/00	4.8	06/01	
HALL	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
HALL 2	MUNICIPAL	ACTIVE	VOCS	ND	03/01	ND	06/17	VULNERABLE (NO3(N))
			NITRATE (N)	6.6	06/16	6.5	03/18	
			CLO4	ND	03/00	ND	06/17	
			AS	ND	09/01	ND	09/16	
			CR6	9.6	03/18	9.6	03/18	
HOWLAND	MUNICIPAL	ACTIVE	TCE	6.9	07/89	0.6	03/18	VULNERABLE (VOC)
			PCE	3.6	03/01	ND	03/18	
			C-1,2-DCE	3.3	11/87	ND	09/17	
			NITRATE (N)	4.7	09/16	2.2	03/18	
			CLO4	ND	08/97	ND	06/17	
			AS	0.7	07/96	ND	01/17	
			CR6	6.7	11/16	6.7	11/16	
IVAR 1	MUNICIPAL	DESTROYED	PCE	7.4	06/99	6.2	06/00	
			TCE	1.7	06/99	ND	06/00	
			NITRATE (N)	6.6	09/94	5.9	09/01	
			CLO4	ND	08/97	ND	03/01	
			AS	0.5	10/96	0.5	10/96	
IVAR 2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	5.4	12/84	5.4	12/84	
			CLO4	NA	NA	NA	NA	
			AS	ND	10/81	ND	10/81	
LONGDEN	MUNICIPAL	ACTIVE	PCE	15.0	03/18	15.0	03/18	VULNERABLE



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WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			TCE	0.9	03/18	0.9	03/18	(CLO4,VOC,NO3(N))
			NITRATE (N)	16.0	03/18	16.0	03/18	
			CLO4	5.5	06/16	ND	03/17	
			AS	4.6	06/01	ND	09/16	
			CR6	4.3	05/15	4.0	11/16	
MAR 1	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	01/85	
			NITRATE (N)	20.1	03/79	8.8	01/84	
			CLO4	NA	NA	NA	NA	
			AS	2.0	03/81	ND	10/81	
MAR 2	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	7.5	01/84	7.5	01/84	
			CLO4	NA	NA	NA	NA	
			AS	1.0	03/81	ND	10/81	
MAR 3	MUNICIPAL	ACTIVE	VOCS	ND	01/85	ND	09/17	
			NITRATE (N)	3.9	09/17	3.9	09/17	
			CLO4	ND	06/97	ND	06/17	
			AS	1.0	05/00	ND	09/16	
			CR6	9.6	09/17	8.5	03/18	
MIVW 1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	7.0	03/01	7.0	03/01	
			CLO4	NA	NA	NA	NA	
MIVW 2	MUNICIPAL	INACTIVE	VOCS	ND	07/87	ND	09/16	
			NITRATE (N)	10.0	03/16	8.6	12/16	
			CLO4	ND	06/97	ND	09/16	
			AS	0.6	07/96	ND	09/16	
			CR6	10.1	12/00	8.8	11/16	
RIC 1	MUNICIPAL	DESTROYED	VOCS	ND	02/85	ND	12/90	
			NITRATE (N)	5.3	08/89	2.7	11/94	
			CLO4	NA	NA	NA	NA	
			AS	ND	09/80	ND	11/94	
RIC 2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
RIC 3	MUNICIPAL	ACTIVE	TCE	0.9	11/16	0.8	03/18	
			PCE	0.6	12/17	0.6	03/18	
			NITRATE (N)	2.8	03/18	2.8	03/18	
			CLO4	NA	NA	ND	06/17	
			AS	NA	NA	ND	09/16	
			CR6	9.5	09/17	9.2	03/18	
ROANOKE	MUNICIPAL	INACTIVE	TCE	5.0	06/00	4.7	12/00	
			PCE	1.2	04/90	ND	09/00	
			C-1,2-DCE	0.5	09/00	ND	12/00	
			NITRATE (N)	7.5	05/89	6.6	12/00	
			CLO4	5.6	06/97	ND	03/00	
			AS	0.8	07/96	ND	02/01	
			CR6	5.0	10/00	4.9	06/01	
ROSEMEAD	MUNICIPAL	INACTIVE	TCE	6.1	03/12	3.8	05/14	
			PCE	3.4	03/09	ND	05/14	
			NITRATE (N)	8.6	12/13	6.6	05/14	
			CLO4	ND	08/97	ND	05/14	
			AS	0.4	07/96	ND	05/14	
			CR6	11.0	10/00	5.2	06/11	
CALIFORNIA COUNTRY CLUB								
ARTES	IRRIGATION	STANDBY	VOCS	ND	05/87	ND	10/10	
			NITRATE (N)	6.6	10/10	6.6	10/10	
			CLO4	NA	NA	NA	NA	
CLUB	IRRIGATION	INACTIVE	PCE	189.0	11/87	189.0	11/87	
			1,1,2,2-PCA	24.0	11/87	24.0	11/87	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
SYCAMORE	IRRIGATION	STANDBY	PCE	7.1	09/02	0.6	10/10	
			TCE	0.7	09/01	ND	10/10	
			NITRATE (N)	28.9	10/07	4.3	10/10	
			CLO4	ND	02/98	ND	02/98	
CALIFORNIA DOMESTIC WATER COMPANY								
01-E	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	MUNICIPAL	ACTIVE	CTC	0.7	09/96	ND	04/18	VULNERABLE (VOC,NO3(N),CLO4,AS)
			PCE	3.7	09/12	0.7	04/18	
			TCE	4.0	10/99	0.6	04/18	
			NITRATE (N)	6.1	02/15	5.8	04/18	
			CLO4	5.6	10/99	ND	05/17	
			AS	7.4	12/11	ND	05/17	
			CR6	3.0	10/16	1.9	04/17	
03	MUNICIPAL	ACTIVE	CTC	5.3	02/01	1.4	04/18	VULNERABLE (NO3(N),VOC,CLO4)
			PCE	32.0	11/12	20.0	04/18	
			TCE	43.0	10/13	31.0	04/18	
			1,1-DCE	6.4	01/14	3.4	04/18	
			C-1,2-DCE	4.2	04/13	2.3	04/18	
			NITRATE (N)	10.8	01/07	5.4	04/18	
			CLO4	13.0	10/16	11.0	05/17	
			AS	3.3	12/11	ND	05/17	
			CR6	3.3	11/00	2.6	04/17	
05	MUNICIPAL	DESTROYED	PCE	2.0	02/85	ND	12/90	
			NITRATE (N)	2.9	03/84	2.9	03/84	
			CLO4	NA	NA	NA	NA	
			AS	40.0	06/78	ND	03/84	
05A	MUNICIPAL	ACTIVE	CTC	1.9	08/96	ND	04/18	VULNERABLE (NO3(N),VOC)
			PCE	20.0	11/15	7.3	04/18	
			TCE	19.0	11/15	8.1	04/18	
			1,1-DCE	2.7	10/08	1.2	04/18	
			C-1,2-DCE	1.6	10/08	0.6	04/18	
			NITRATE (N)	6.6	04/01	2.2	04/18	
			CLO4	ND	06/97	ND	05/17	
			AS	3.8	08/95	ND	05/17	
			CR6	2.0	04/17	1.6	04/17	
06	MUNICIPAL	ACTIVE	CTC	3.5	12/06	ND	04/18	VULNERABLE (VOC,NO3(N),CLO4)
			PCE	39.0	10/14	ND	04/18	
			TCE	44.0	10/14	ND	04/18	
			1,1-DCE	6.2	10/14	ND	04/18	
			C-1,2-DCE	4.5	10/14	ND	04/18	
			NITRATE (N)	7.7	04/11	6.3	04/18	
			CLO4	7.1	04/17	5.3	05/17	
			AS	3.2	04/04	ND	05/17	
			CR6	2.2	04/17	1.8	04/17	
08	MUNICIPAL	ACTIVE	PCE	9.8	02/09	0.9	04/18	VULNERABLE (VOC,NO3(N),CLO4,AS)
			TCE	12.0	02/09	ND	04/18	
			CTC	1.1	09/93	ND	04/18	
			NITRATE (N)	5.4	08/02	2.5	04/18	
			CLO4	5.6	08/02	ND	05/17	
			AS	6.0	09/94	ND	05/17	
			CR6	3.2	11/00	2.1	04/17	
10	MUNICIPAL	ACTIVE	PCE	52.0	10/16	8.7	04/18	VULNERABLE (NO3(N),CLO4,VOC)
			TCE	55.0	10/16	10.0	04/18	
			CTC	1.0	08/16	0.6	04/18	
			1,1-DCE	9.4	10/16	1.5	04/18	
			C-1,2-DCE	6.5	10/16	0.7	04/18	
			NITRATE (N)	6.9	09/16	1.6	04/18	
			CLO4	8.3	09/16	ND	04/18	
			AS	2.6	11/16	ND	05/17	
			CR6	2.7	10/16	ND	01/18	
13-N	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
14	MUNICIPAL	ACTIVE	NITRATE (N)	NA	NA	NA	NA	VULNERABLE (NO3(N),CLO4,VOC)
			CLO4	NA	NA	NA	NA	
			CTC	4.4	10/07	ND	04/18	
			PCE	16.0	11/12	5.0	04/18	
			TCE	20.0	11/12	5.2	04/18	
			1,2-DCA	1.0	06/08	ND	04/18	
			C-1,2-DCE	1.6	10/12	0.5	04/18	
			1,1-DCE	1.9	10/12	0.8	04/18	
			NITRATE (N)	16.9	12/14	2.4	04/18	
			CLO4	16.0	12/12	ND	05/17	
			AS	4.5	04/01	ND	05/17	
			CR6	5.1	04/17	5.1	04/17	
CEDAR AVENUE MUTUAL WATER COMPANY								
01 SOUTH	MUNICIPAL	DESTROYED	PCE	2.2	09/90	ND	06/94	
			NITRATE (N)	6.1	08/93	2.0	06/94	
			CLO4	NA	NA	NA	NA	
			AS	NA	09/89	ND	08/93	
02 NORTH	MUNICIPAL	DESTROYED	PCE	0.8	04/92	ND	06/94	
			NITRATE (N)	4.5	01/86	1.7	08/93	
			CLO4	NA	NA	NA	NA	
			AS	ND	09/89	ND	09/92	
CEMEX CONSTRUCTION MATERIALS L.P. (AZ TWO)								
02	INDUSTRIAL	DESTROYED	PCE	700.0	01/85	2.8	09/03	
			TCE	940.0	04/85	6.3	09/03	
			CTC	2.2	09/02	ND	09/03	
			1,1-DCE	350.0	01/87	7.2	09/03	
			1,1-DCA	1.0	08/01	ND	09/03	
			1,1,1-TCA	430.0	01/87	3.6	09/03	
			VC	19.0	12/87	ND	09/03	
			NITRATE (N)	17.8	09/02	16.5	09/03	
			CLO4	4.2	06/97	ND	09/98	
			CHAMPION MUTUAL WATER COMPANY					
01	MUNICIPAL	DESTROYED	PCE	3.0	09/86	ND	06/98	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	MUNICIPAL	DESTROYED	PCE	0.6	06/88	ND	09/13	
			NITRATE (N)	6.3	09/10	5.0	06/14	
			CLO4	ND	09/97	ND	09/13	
			AS	3.6	08/98	2.4	09/13	
			CR6	1.0	06/01	0.7	09/13	
03	MUNICIPAL	DESTROYED	PCE	1.3	09/96	ND	12/14	
			FREON 113	18.0	03/07	ND	03/15	
			NITRATE (N)	5.4	03/09	4.1	03/15	
			CLO4	ND	03/98	ND	12/14	
			AS	13.2	05/98	2.8	03/15	
			CR6	1.0	06/01	ND	09/14	
CHEVRON USA INC.								
TEMP 1	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS								
01	NON-POTABLE	INACTIVE	VOCS	ND	09/96	ND	10/10	
			NITRATE (N)	23.7	02/98	18.7	10/10	
			CLO4	24.0	02/98	24.0	02/98	
CLAYTON MANUFACTURING COMPANY								
02	INDUSTRIAL	DESTROYED	TCE	150.0	08/01	47.0	09/03	
			PCE	30.0	08/01	ND	09/03	
			1,1-DCE	10.0	08/01	1.7	09/03	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			C-1,2-DCE	1.7	08/01	ND	09/03	
			1,1-DCA	15.0	08/01	ND	09/03	
			1,2-DCA	13.0	08/01	ND	09/03	
			1,1,1-TCA	1.1	08/01	ND	09/03	
			NITRATE (N)	19.7	08/01	9.0	09/03	
			CLO4	4.0	09/97	4.0	09/97	
CORCORAN BROTHERS								
01	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
COUNTY SANITATION DISTRICT NO. 18								
E08A	REMEDIAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
E09A	REMEDIAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
E10A	REMEDIAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
E11A	REMEDIAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EX1	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EX2	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EX3	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EX4	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LE1	REMEDIAL	DESTROYED	TCE	4.2	06/86	3.7	09/86	
			PCE	0.8	09/86	0.8	09/86	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LE2	REMEDIAL	DESTROYED	TCE	0.1	06/86	ND	09/86	
			PCE	NA	06/86	ND	09/86	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LE3	REMEDIAL	DESTROYED	TCE	1.5	06/86	1.2	09/86	
			PCE	1.6	06/86	0.8	09/86	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LE4	REMEDIAL	DESTROYED	TCE	5.1	09/86	5.1	09/86	
			PCE	2.0	09/86	2.0	09/86	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
COVINA, CITY OF								
01	MUNICIPAL	INACTIVE	PCE	0.6	01/99	0.6	01/99	
			NITRATE (N)	27.1	01/99	27.1	01/99	
			CLO4	NA	NA	NA	NA	
02 (GRAND)	MUNICIPAL	INACTIVE	VOCS	ND	06/88	ND	09/98	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			NITRATE (N)	26.2	08/89	23.3	04/99	
			CLO4	23.0	09/97	22.0	09/98	
			AS	3.3	08/97	3.3	08/97	
			VOCS	NA	NA	NA	NA	
			NITRATE (N)	16.3	10/73	16.3	10/73	
03	MUNICIPAL	DESTROYED	CLO4	NA	NA	NA	NA	
COVINA IRRIGATING COMPANY								
BAL 1	MUNICIPAL	STANDBY	TCE	200.0	07/80	ND	10/13	VULNERABLE (VOC,NO3(N))
			PCE	7.6	07/80	ND	10/13	
			1,1-DCE	0.5	10/06	ND	10/13	
			NITRATE (N)	8.0	12/89	0.9	09/14	
			CLO4	1.5	10/06	ND	09/14	
			AS	4.7	12/89	3.5	01/14	
			CR6	1.0	10/00	0.2	07/13	
BAL 2	MUNICIPAL	STANDBY	TCE	195.0	06/80	ND	11/15	VULNERABLE (VOC,NO3(N),CLO4)
			PCE	7.9	06/80	ND	11/15	
			1,1-DCE	0.8	07/07	ND	11/15	
			NITRATE (N)	10.6	03/10	4.5	07/15	
			CLO4	5.5	03/09	ND	11/15	
			AS	4.0	08/76	3.4	07/15	
			CR6	1.0	10/00	0.5	07/13	
BAL 3	MUNICIPAL	STANDBY	TCE	225.0	01/80	ND	10/14	VULNERABLE (VOC,NO3(N),CLO4)
			PCE	10.0	02/85	ND	10/14	
			CTC	3.0	04/85	ND	10/14	
			1,1-DCA	4.0	04/85	ND	10/14	
			1,2-DCA	3.7	02/85	ND	10/14	
			1,1-DCE	2.1	04/85	ND	10/14	
			T-1,2-DCE	2.9	02/85	ND	10/14	
			1,1,1-TCA	5.2	04/85	ND	10/14	
			NITRATE (N)	12.9	08/89	5.9	07/15	
			CLO4	5.6	09/08	ND	07/15	
			AS	3.1	07/15	3.1	07/15	
			CR6	1.0	11/00	0.8	07/13	
CONTR	MUNICIPAL	DESTROYED	PCE	1.4	12/92	1.3	03/94	
			NITRATE (N)	28.3	12/89	24.4	03/94	
			CLO4	NA	NA	NA	NA	
			AS	ND	12/89	ND	12/92	
VALEN	MUNICIPAL	DESTROYED	PCE	2.4	08/85	0.6	09/97	
			NITRATE (N)	16.5	06/81	15.7	09/97	
			CLO4	6.4	09/97	6.4	09/97	
CREVOLIN, A.J.								
NA	DOMESTIC	DESTROYED	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
CROWN CITY PLATING COMPANY								
01	INDUSTRIAL	INACTIVE	TCE	1.2	09/04	1.2	09/04	
			T-1,2-DCE	1.4	05/87	ND	09/04	
			NITRATE (N)	1.7	09/04	0.8	09/08	
			CLO4	ND	09/97	ND	10/07	
DAVIDSON OPTRONICS INC.								
NA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
DAWES, MARY K.								
04	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
BURKETT	MUNICIPAL	ACTIVE	TCE	2.2	06/90	ND	09/17	VULNERABLE (VOC,NO3(N))
			PCE	3.7	03/97	ND	09/17	
			NITRATE (N)	7.0	12/03	0.8	09/17	
			CLO4	ND	09/97	ND	12/15	
			AS	2.6	03/02	2.1	09/17	
			CR6	3.4	07/01	ND	09/17	
KLING	MUNICIPAL	INACTIVE	PCE	1.3	08/86	ND	02/89	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
DRIFTWOOD DAIRY								
01	INDUSTRIAL	INACTIVE	PCE	13.9	06/98	13.9	06/98	
			1,1,1-TCA	0.3	03/93	ND	06/98	
			NITRATE (N)	14.7	03/93	10.6	06/98	
			CLO4	ND	06/98	ND	06/98	
DUNNING, GEORGE								
1910	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EAST PASADENA WATER COMPANY, LTD.								
09	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	07/17	
			NITRATE (N)	1.4	09/12	1.0	03/17	
			CLO4	ND	07/97	ND	03/17	
			AS	0.9	08/96	ND	04/15	
			CR6	9.4	07/01	8.4	10/14	
11	MUNICIPAL	ACTIVE	VOCS	ND	12/11	ND	04/18	
			NITRATE (N)	0.8	09/16	0.7	03/17	
			CLO4	ND	12/11	ND	03/17	
			AS	ND	05/14	ND	04/15	
			CR6	5.9	10/14	5.9	10/14	
EL MONTE, CITY OF								
02A	MUNICIPAL	ACTIVE	PCE	13.0	03/98	3.8	04/18	VULNERABLE (VOC,NO3(N),AS)
			TCE	5.3	01/95	ND	04/18	
			NITRATE (N)	8.5	06/16	5.2	04/18	
			CLO4	ND	07/97	ND	08/17	
			AS	10.0	03/73	ND	08/17	
			CR6	2.6	08/17	2.6	08/17	
03	MUNICIPAL	STANDBY	PCE	23.6	12/00	3.3	04/18	VULNERABLE (VOC,NO3(N),AS)
			1,1,1-TCA	1.0	11/93	ND	12/17	
			NITRATE (N)	16.2	08/89	3.5	12/17	
			CLO4	ND	07/97	ND	12/17	
			AS	10.0	03/73	ND	12/17	
			CR6	3.2	12/17	3.2	12/17	
04	MUNICIPAL	STANDBY	PCE	16.2	03/84	0.6	01/08	VULNERABLE (VOC,NO3(N),AS)
			TCE	7.8	02/80	ND	12/07	
			NITRATE (N)	13.1	11/14	7.2	03/18	
			CLO4	ND	07/97	ND	07/03	
			AS	10.0	03/73	ND	12/07	
			CR6	2.8	07/01	1.2	11/14	
05	MUNICIPAL	DESTROYED	TCE	150.0	07/93	70.0	12/96	
			PCE	51.0	07/93	32.0	12/96	
			CTC	4.3	07/93	1.4	12/96	
			NITRATE (N)	12.2	12/96	5.9	06/99	
			CLO4	5.9	06/97	5.9	06/97	
			AS	10.0	04/73	10.0	04/73	
10	MUNICIPAL	ACTIVE	TCE	7.2	09/81	ND	04/18	VULNERABLE (VOC,NO3(N),AS)
			PCE	17.7	12/93	3.2	04/18	
			NITRATE (N)	9.3	04/16	2.3	04/18	
			CLO4	ND	06/97	ND	08/17	
			AS	20.0	03/73	ND	04/17	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
11	MUNICIPAL	DESTROYED	CR6	1.6	04/17	1.6	04/17	
			VOCS	NA	NA	NA	NA	
			NITRATE (N)	4.9	07/79	4.9	07/79	
			CLO4	NA	NA	NA	NA	
			AS	20.0	03/73	3.0	08/79	
12	MUNICIPAL	ACTIVE	TCE	67.0	08/17	57.0	04/18	VULNERABLE (NO3(N),VOC)
			PCE	29.0	04/17	28.0	04/18	
			CTC	1.0	06/92	0.7	04/18	
			C-1,2-DCE	0.9	10/16	0.6	04/18	
			NITRATE (N)	9.3	06/05	7.6	04/18	
			CLO4	ND	06/97	ND	08/17	
			AS	ND	05/84	ND	07/16	
			CR6	4.8	07/16	4.8	07/16	
			13	MUNICIPAL	ACTIVE	PCE	7.5	
TCE	15.0	04/16				5.4	04/18	
NITRATE (N)	5.3	06/16				3.3	08/17	
CLO4	ND	07/97				ND	08/17	
AS	1.3	08/96				ND	07/16	
CR6	5.3	07/16				5.3	07/16	
MT VW	IRRIGATION	DESTROYED				PCE	2.1	08/85
			TCE	2.0	01/85	ND	01/01	
			NITRATE (N)	6.8	02/87	2.3	01/01	
			CLO4	ND	09/97	ND	11/97	
			AS	ND	02/84	ND	02/84	
			EL MONTE CEMETERY ASSOCIATION					
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
FRUIT STREET WATER COMPANY								
NA	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
GATES, JAMES RICHARD								
GATES 1	IRRIGATION	ACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
01	NA	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
GLENDORA, CITY OF								
01-E	MUNICIPAL	DESTROYED	TCE	0.8	12/80	ND	09/07	
			NITRATE (N)	8.6	10/88	7.9	08/08	
			CLO4	ND	06/97	ND	03/03	
			AS	2.8	07/98	ND	03/08	
			CR6	1.0	05/01	1.0	05/01	
02-E	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	03/18	VULNERABLE (NO3(N))
			NITRATE (N)	15.8	05/78	1.4	09/17	
			CLO4	ND	07/97	ND	03/18	
			AS	0.7	08/96	ND	09/16	
			CR6	1.3	09/16	1.3	09/16	
03-G	MUNICIPAL	INACTIVE	TCE	0.5	12/79	ND	05/97	
			PCE	0.5	05/97	0.5	05/97	
			NITRATE (N)	36.7	08/83	25.1	08/99	
			CLO4	NA	NA	NA	NA	
04-E	MUNICIPAL	INACTIVE	TCE	0.7	08/80	ND	08/91	
			PCE	0.1	07/81	ND	08/91	
			NITRATE (N)	28.5	06/83	12.8	08/91	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/74	ND	07/74	
05-E	MUNICIPAL	ACTIVE	VOCS	ND	02/95	ND	09/17	
			NITRATE (N)	0.7	05/95	ND	06/17	
			CLO4	ND	07/97	ND	09/17	
			AS	5.3	04/98	3.1	06/16	
			CR6	1.0	11/00	ND	06/16	
07-G	MUNICIPAL	INACTIVE	TCE	302.0	01/81	ND	04/98	
			PCE	25.0	01/81	1.9	04/98	
			1,1-DCE	435.0	05/84	ND	04/98	
			C-1,2-DCE	21.0	05/82	ND	04/98	
			1,1-DCA	5.0	05/84	ND	04/98	
			1,2-DCA	12.1	12/93	ND	04/98	
			1,1,1-TCA	3200.0	05/84	64	04/98	
			NITRATE (N)	23.9	04/98	17.14581	04/98	
			CLO4	5.3	04/98	5.3	04/98	
			AS	ND	07/74	ND	08/95	
08-E	MUNICIPAL	ACTIVE	VOCS	ND	08/02	ND	03/18	
			NITRATE (N)	1.5	08/86	ND	09/17	
			CLO4	ND	07/97	ND	09/17	
			AS	3.2	08/96	2.4	09/17	
			CR6	1.0	11/00	ND	09/17	
09-E	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	09/17	
			NITRATE (N)	0.9	08/96	ND	09/17	
			CLO4	ND	07/97	ND	09/17	
			AS	2.6	09/17	2.6	09/17	
			CR6	1.0	11/00	ND	09/17	
10-E	MUNICIPAL	ACTIVE	VOCS	ND	07/97	ND	03/18	VULNERABLE
			NITRATE (N)	17.6	05/77	7.1	03/18	(NO3(N),AS)
			CLO4	ND	07/97	ND	03/18	
			AS	7.0	08/79	ND	03/17	
			CR6	1.2	03/17	1.2	03/17	
11-E	MUNICIPAL	ACTIVE	VOCS	ND	05/82	ND	09/17	VULNERABLE
			NITRATE (N)	26.5	08/73	8.7	03/18	(NO3(N),CLO4)
			CLO4	4.9	12/10	ND	03/18	
			AS	3.2	07/98	ND	09/16	
			CR6	1.8	09/16	1.8	09/16	
12-G	MUNICIPAL	ACTIVE	TCE	0.9	12/80	ND	09/17	
			NITRATE (N)	1.1	07/98	ND	09/17	
			CLO4	ND	06/97	ND	09/17	
			AS	4.4	07/97	2.2	09/15	
			CR6	1.0	11/00	ND	09/15	
13-E	MUNICIPAL	ACTIVE	VOCS	ND	06/04	ND	03/18	VULNERABLE
			NITRATE (N)	6.6	12/09	1.4	03/18	(NO3(N))
			CLO4	ND	06/04	ND	09/17	
			AS	2.2	09/15	ND	06/16	
			CR6	0.6	09/13	ND	06/16	
GOEDERT, LILLIAN								
GOEDERT	IRRIGATION	DESTROYED	VOCS	ND	06/98	ND	06/98	
			NITRATE (N)	1.6	06/98	1.6	06/98	
			CLO4	ND	06/98	ND	06/98	
GOLDEN STATE WATER COMPANY/SAN DIMAS DISTRICT								
ART-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	13.6	10/74	13.6	10/74	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/74	ND	07/74	
ART-2	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	05/07	
			NITRATE (N)	5.9	08/07	2.1	09/07	
			CLO4	ND	08/97	ND	09/07	
			AS	0.8	08/96	ND	05/07	



**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
ART-3	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	12/17	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	31.6	05/14	7.9	05/18	
			CLO4	21.0	05/14	ND	05/18	
			AS	0.7	08/96	ND	05/16	
			CR6	1.8	05/16	1.8	05/16	
BAS-3	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/18	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	28.0	05/16	22.0	05/18	
			CLO4	21.0	10/14	9.5	05/18	
			AS	4.0	08/76	ND	05/16	
			CR6	1.8	05/16	1.8	05/16	
BAS-4	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	06/16	
			NITRATE (N)	24.8	01/13	12.0	12/16	
			CLO4	23.0	03/13	7.6	12/16	
			AS	1.0	08/96	ND	05/16	
			CR6	2.3	05/16	2.3	05/16	
CITY	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	05/08	VULNERABLE (NO3(N))
			NITRATE (N)	10.1	09/93	7.0	11/08	
			CLO4	ND	08/97	ND	08/08	
			AS	0.7	08/96	ND	08/06	
			CR6	0.2	12/00	ND	07/01	
COL-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	21.0	09/75	2.3	10/76	
			CLO4	NA	NA	NA	NA	
COL-2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	26.5	10/76	26.5	10/76	
			CLO4	NA	NA	NA	NA	
			AS	18.0	06/78	18.0	06/78	
COL-4	MUNICIPAL	ACTIVE	VOCS	ND	09/97	ND	05/18	VULNERABLE (NO3(N))
			NITRATE (N)	14.5	03/83	5.9	05/18	
			CLO4	2.9	04/11	ND	05/18	
			AS	0.7	08/96	ND	03/16	
			CR6	1.0	07/01	ND	03/16	
COL-5	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
COL-6	MUNICIPAL	INACTIVE	PCE	7.2	07/85	ND	02/11	
			NITRATE (N)	12.7	06/85	8.1	03/11	
			CLO4	2.1	03/11	2.1	03/11	
			AS	4.0	08/76	ND	05/10	
			CR6	1.0	07/01	1.0	07/01	
COL-7	MUNICIPAL	DESTROYED	PCE	22.0	12/87	3.1	11/99	
			TCE	9.9	01/80	ND	09/99	
			1,1-DCE	1.1	03/85	ND	09/99	
			1,1,1-TCA	1.7	07/85	ND	09/99	
			NITRATE (N)	26.7	05/79	15.38379	01/00	
			CLO4	4.2	01/02	4.2	01/02	
			AS	0.9	08/96	ND	01/00	
COL-8	MUNICIPAL	INACTIVE	PCE	0.2	09/80	ND	12/96	
			NITRATE (N)	27.1	06/83	11.5	12/96	
			CLO4	NA	NA	NA	NA	
			AS	6.0	08/79	ND	03/85	
HIGHWAY	MUNICIPAL	ACTIVE	TCE	0.6	12/80	ND	08/17	VULNERABLE (NO3(N),CLO4)
			PCE	0.1	12/80	ND	08/17	
			NITRATE (N)	19.0	08/15	9.4	05/18	
			CLO4	12.0	08/15	4.0	05/18	
			AS	0.8	08/96	ND	09/16	
			CR6	1.0	07/01	ND	09/16	
HIGHWAY 2	MUNICIPAL	ACTIVE	VOCS	ND	10/10	ND	02/18	VULNERABLE (NO3(N))
			NITRATE (N)	6.1	11/15	4.8	05/18	
			CLO4	ND	10/10	ND	05/18	
			AS	ND	10/10	ND	01/17	
			CR6	1.7	10/10	ND	01/17	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
L HILL 2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NITRATE (N)	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MALON	MUNICIPAL	ACTIVE	VOCS	ND	08/96	ND	05/18	VULNERABLE (NO3(N))	
			NITRATE (N)	9.5	09/87	5.3	05/18		
			CLO4	ND	08/97	ND	08/17		
			AS	0.7	08/96	ND	09/15		
			CR6	1.0	07/01	ND	09/15		
GOLDEN STATE WATER COMPANY/SAN GABRIEL VALLEY DISTRICT (SOUTH ARCADIA)									
AZU 1	MUNICIPAL	DESTROYED	TCE	15.0	07/93	0.6	01/95		
			PCE	1.9	07/93	ND	01/95		
			NITRATE (N)	16.5	12/90	7.9	07/02		
			CLO4	NA	NA	NA	10/02		
			AS	0.6	08/96	0.6	08/96		
EARL 1	MUNICIPAL	DESTROYED	PCE	6.0	09/03	6.0	09/03		
			NITRATE (N)	1.6	08/03	1.6	09/03		
			CLO4	ND	08/97	ND	08/03		
			AS	0.5	08/96	ND	07/01		
ENC 1	MUNICIPAL	ACTIVE	TCE	21.0	04/03	3.1	05/18	VULNERABLE (VOC,NO3(N),CLO4)	
			PCE	3.5	04/03	1.1	05/18		
			NITRATE (N)	17.5	08/91	2.8	05/18		
			CLO4	5.7	02/13	ND	11/17		
			AS	ND	07/89	ND	06/16		
			CR6	8.2	07/01	7.6	06/16		
ENC 2	MUNICIPAL	ACTIVE	TCE	29.1	02/01	3.8	05/18	VULNERABLE (VOC)	
			PCE	6.4	02/15	1.5	05/18		
			NITRATE (N)	4.7	02/09	1.6	05/18		
			CLO4	1.5	03/10	ND	08/17		
			AS	0.7	08/96	ND	08/17		
			CR6	7.9	08/17	7.9	08/17		
ENC 3	MUNICIPAL	ACTIVE	TCE	19.0	03/17	18.0	05/18	VULNERABLE (NO3(N),AS,VOC)	
			PCE	7.8	03/17	7.5	05/18		
			NITRATE (N)	9.8	07/93	5.4	05/18		
			CLO4	1.9	03/10	ND	05/18		
			AS	16.3	07/90	ND	08/17		
			CR6	8.0	09/01	7.8	08/17		
FAR 1	MUNICIPAL	ACTIVE	TCE	11.9	10/80	ND	05/18	VULNERABLE (VOC)	
			PCE	3.1	10/87	ND	02/18		
			NITRATE (N)	2.9	07/89	0.5	05/18		
			CLO4	ND	08/97	ND	05/18		
			AS	2.7	08/97	ND	05/16		
			CR6	1.6	05/16	1.6	05/16		
FAR 2	MUNICIPAL	ACTIVE	TCE	12.9	07/80	ND	05/18	VULNERABLE (VOC)	
			PCE	2.6	10/87	ND	08/17		
			NITRATE (N)	2.8	07/90	1.3	08/17		
			CLO4	ND	08/97	ND	08/17		
			AS	0.9	08/96	ND	08/17		
			CR6	1.9	11/14	2.6	08/17		
GAR 1	MUNICIPAL	DESTROYED	VOCS	ND	08/99	ND	07/03		
			PCE	4.5	10/03	4.5	10/03		
			NITRATE (N)	1.9	08/03	1.7	09/03		
			CLO4	ND	08/97	ND	08/03		
			AS	0.5	08/96	ND	08/03		
GAR 2	MUNICIPAL	DESTROYED	PCE	12.0	07/03	11.0	08/03		
			TCE	2.2	08/03	2.2	08/03		
			NITRATE (N)	1.6	08/97	1.0	07/02		
			CLO4	ND	08/97	ND	08/03		
			AS	0.5	08/96	ND	08/00		
GAR 3	MUNICIPAL	ACTIVE	TCE	0.8	02/17	ND	05/18	VULNERABLE (VOC)	
			PCE	7.8	02/17	3.1	05/18		
			NITRATE (N)	3.8	02/17	1.7	05/18		

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
GID 1	MUNICIPAL	DESTROYED	CLO4	ND	06/16	ND	05/18	
			AS	NA	NA	ND	06/16	
			CR6	NA	NA	6.2	06/16	
			TCE	6.6	04/85	4.1	09/93	
			PCE	0.9	09/93	0.9	09/93	
GID 2	MUNICIPAL	DESTROYED	NITRATE (N)	9.2	09/93	9.2	09/93	
			CLO4	NA	NA	NA	NA	
			TCE	86.0	05/87	5.2	09/93	
			PCE	20.0	05/87	1.5	09/93	
			CTC	3.0	05/87	ND	09/93	
GRA 1	MUNICIPAL	DESTROYED	NITRATE (N)	10.3	09/93	10.3	09/93	
			CLO4	NA	NA	NA	NA	
			TCE	33.0	09/88	25.4	11/94	
			PCE	2.5	11/93	0.6	11/94	
			NITRATE (N)	19.6	08/89	10.0	07/95	
GRA 2	MUNICIPAL	INACTIVE	CLO4	NA	NA	NA	NA	
			AS	18.0	06/78	ND	08/94	
			TCE	31.3	08/89	24.6	08/94	
			PCE	3.3	09/94	3.3	09/94	
			1,1-DCE	4.8	08/94	4.8	08/94	
JEF 1	MUNICIPAL	INACTIVE	NITRATE (N)	18.5	07/90	10.0	07/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/89	ND	08/94	
			TCE	340.0	01/80	98.0	01/85	
			PCE	23.0	03/81	8.0	01/85	
JEF 2	MUNICIPAL	DESTROYED	1,1,1-TCA	31.0	01/85	31.0	01/85	
			NITRATE (N)	11.7	07/83	11.0	03/86	
			CLO4	NA	NA	NA	NA	
			TCE	260.0	01/80	140.0	01/85	
			PCE	15.0	03/81	6.0	01/85	
JEF 3	MUNICIPAL	DESTROYED	1,1-DCE	20.0	01/85	20.0	01/85	
			1,1,1-TCA	54.0	01/85	54.0	01/85	
			NITRATE (N)	15.4	06/77	13.8	06/79	
			CLO4	NA	NA	NA	NA	
			TCE	121.0	02/81	4.9	08/92	
JEF 4	MUNICIPAL	ACTIVE	PCE	12.0	03/81	0.6	08/92	
			1,1,1-TCA	29.0	04/85	ND	08/92	
			T-1,2-DCE	2.4	04/85	ND	08/92	
			NITRATE (N)	11.7	12/84	5.3	08/92	
			CLO4	NA	NA	NA	NA	
PER 1	MUNICIPAL	ACTIVE	AS	ND	12/84	ND	08/86	VULNERABLE (VOC,NO3(N))
			VOCS	ND	08/89	ND	08/17	
			NITRATE (N)	3.3	07/89	0.9	08/17	
			CLO4	ND	08/97	ND	08/17	
			AS	0.7	08/96	ND	08/15	
S G 1	MUNICIPAL	ACTIVE	CR6	1.3	07/01	ND	08/15	VULNERABLE (NO3(N),CLO4,VOC)
			TCE	25.8	10/80	1.0	05/18	
			PCE	6.8	07/87	ND	05/18	
			NITRATE (N)	8.6	12/11	3.0	05/18	
			CLO4	ND	08/97	ND	11/17	
S G 2	MUNICIPAL	ACTIVE	AS	0.9	08/96	ND	08/15	VULNERABLE
			CR6	5.6	08/15	5.6	08/15	
			PCE	46.0	04/06	10.0	05/18	
			TCE	6.8	12/03	1.0	05/18	
			C-1,2-DCE	1.8	11/04	ND	05/18	
S G 1	MUNICIPAL	ACTIVE	1,1-DCA	1.8	06/04	ND	11/17	
			1,1-DCE	0.7	11/04	ND	05/18	
			FREON 11	1.2	08/03	ND	08/17	
			NITRATE (N)	6.1	04/02	2.6	05/18	
			CLO4	8.1	08/03	ND	05/18	
S G 2	MUNICIPAL	ACTIVE	AS	2.7	08/94	ND	08/16	
			CR6	5.9	12/01	5.6	08/16	
			PCE	28.0	05/11	2.1	05/18	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			TCE	3.6	06/99	ND	05/18	(VOC,CLO4,NO3(N))
			1,1-DCE	0.7	04/11	ND	11/17	
			C-1,2-DCE	1.2	02/01	ND	05/18	
			NITRATE (N)	17.0	08/16	11.0	05/18	
			CLO4	7.0	02/03	ND	05/18	
			AS	0.8	08/96	ND	08/15	
			CR6	8.0	08/15	8.0	08/15	
SAX 1	MUNICIPAL	DESTROYED	PCE	1.4	04/97	0.9	12/97	VULNERABLE (NO3(N))
			NITRATE (N)	7.5	10/97	7.5	10/97	
			CLO4	ND	08/97	ND	12/97	
			AS	0.3	08/96	0.3	08/96	
SAX 3	MUNICIPAL	ACTIVE	VOCS	ND	04/89	ND	08/17	
			NITRATE (N)	6.2	11/96	1.0	08/17	
			CLO4	ND	08/97	ND	08/17	
			AS	0.4	08/96	ND	08/16	
			CR6	5.8	08/16	5.8	08/16	
SAX 4	MINICIPAL	ACTIVE	PCE	0.8	12/16	ND	03/18	
			TCE	0.5	12/16	ND	03/18	
			NITRATE (N)	2.7	08/99	ND	03/18	
			CLO4	ND	08/97	ND	03/18	
			AS	5.2	12/09	3.5	12/16	
			CR6	4.8	11/14	4.3	12/16	
GREEN, WALTER								
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
HALL (W.E.) COMPANY								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
HANSEN, ALICE								
2946C	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
HANSON AGGREGATES WEST, INC.								
DUA 1	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
EL 1	INDUSTRIAL	ACTIVE	VOCS	ND	05/98	ND	10/17	
			NITRATE (N)	3.8	02/93	1.0	10/17	
			CLO4	ND	03/98	ND	03/98	
EL 3	INDUSTRIAL	ACTIVE	VOCS	ND	06/98	ND	10/17	
			NITRATE (N)	5.0	05/93	1.0	10/17	
			CLO4	ND	03/98	ND	03/98	
EL 4	INDUSTRIAL	ACTIVE	VOCS	ND	12/87	ND	10/17	
			NITRATE (N)	1.4	06/98	1.0	10/17	
			CLO4	NA	NA	NA	NA	
KIN 1	INDUSTRIAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
HARTLEY, DAVID								
NA	DOMESTIC	INACTIVE	VOCS	ND	10/95	ND	10/95	
			NITRATE (N)	25.1	01/96	16.9	04/96	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			CLO4	NA	NA	NA	NA	
HEMLOCK MUTUAL WATER COMPANY								
NORTH	MUNICIPAL	ACTIVE	PCE	51.7	04/82	ND	09/17	VULNERABLE (VOC)
			TCE	0.7	12/87	ND	09/17	
			NITRATE (N)	4.3	12/06	1.4	12/17	
			CLO4	ND	09/97	ND	09/17	
			AS	2.7	12/08	ND	12/17	
			CR6	1.0	12/00	ND	12/17	
SOUTH	MUNICIPAL	ACTIVE	PCE	210.0	12/87	ND	03/18	VULNERABLE (VOC,NO3(N))
			TCE	0.9	04/89	ND	09/17	
			NITRATE (N)	7.4	12/94	1.9	03/18	
			CLO4	ND	09/97	ND	09/17	
			AS	2.1	08/96	ND	12/17	
			CR6	1.1	12/00	ND	12/17	
INDUSTRY WATERWORKS SYSTEM, CITY OF								
01	MUNICIPAL	INACTIVE	TCE	40.0	01/80	1.7	10/92	
			PCE	9.0	04/80	5.0	10/92	
			CTC	5.7	10/92	5.7	10/92	
			1,1-DCE	15.3	10/92	15.3	10/92	
			1,2-DCA	0.6	10/92	0.6	10/92	
			NITRATE (N)	13.6	10/92	13.6	10/92	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/80	ND	01/80	
02	MUNICIPAL	INACTIVE	TCE	19.0	01/80	2.3	04/81	
			PCE	10.0	04/81	10.0	04/81	
			NITRATE (N)	12.5	02/86	12.5	02/86	
			CLO4	100.0	04/99	100.0	04/99	
			AS	ND	01/80	ND	01/80	
03	MUNICIPAL	INACTIVE	PCE	2.6	09/80	1.6	07/06	
			TCE	12.0	07/06	12.0	07/06	
			CTC	0.5	07/06	0.5	07/06	
			1,2-DCA	0.5	07/06	0.5	07/06	
			NITRATE (N)	7.0	08/00	ND	07/06	
			CLO4	120.0	04/99	ND	07/06	
			AS	5.4	07/95	ND	08/04	
			CR6	6.9	11/00	6.9	11/00	
04	MUNICIPAL	INACTIVE	PCE	2.4	08/01	0.5	07/06	
			TCE	8.0	11/01	1.7	07/06	
			1,1-DCE	0.9	09/02	0.6	07/06	
			1,2-DCA	1.0	11/01	ND	07/06	
			CTC	0.7	11/01	ND	07/05	
			NITRATE (N)	9.5	06/02	7.5	04/07	
			CLO4	14.8	06/01	6.5	01/06	
			AS	6.9	07/95	2.8	08/01	
CR6	8.9	11/00	8.4	06/01				
05	MUNICIPAL	ACTIVE	PCE	13.0	11/17	9.8	05/18	VULNERABLE (NO3(N),CLO4,AS,VOC)
			TCE	6.8	04/96	2.9	05/18	
			1,2-DCA	0.7	09/02	ND	08/17	
			1,1-DCE	2.5	11/17	1.6	05/18	
			NITRATE (N)	7.3	07/16	6.4	05/18	
			CLO4	11.0	04/04	ND	05/17	
			AS	6.8	07/95	2.3	12/15	
			CR6	8.3	05/11	6.5	12/15	
05TH AVE	MUNICIPAL	DESTROYED	TCE	0.3	12/80	0.3	12/80	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
KNIGHT, KATHRYN M.								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LA PUENTE VALLEY COUNTY WATER DISTRICT								
01	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	MUNICIPAL	ACTIVE	TCE	120.0	12/12	84.0	05/17	VULNERABLE
			PCE	6.6	03/00	4.4	05/17	(NO3(N),VOC,CLO4)
			CTC	8.5	12/02	3.4	05/17	
			1,1-DCA	2.1	11/03	0.7	05/17	
			1,2-DCA	6.1	03/00	2.4	05/17	
			1,1-DCE	1.6	12/00	ND	05/17	
			C-1,2-DCE	1.9	04/10	1.5	05/17	
			NITRATE (N)	8.0	05/17	8.0	05/17	
			CLO4	183.0	02/98	34.0	05/17	
			AS	1.9	04/06	ND	06/16	
			CR6	3.7	04/06	3.5	10/16	
03	MUNICIPAL	ACTIVE	TCE	72.0	03/11	0.5	06/17	VULNERABLE
			PCE	6.3	04/85	ND	06/17	(VOC,NO3(N),CLO4)
			CTC	8.5	11/04	ND	06/17	
			1,1-DCE	0.9	10/95	ND	06/17	
			1,2-DCA	6.7	02/99	ND	06/17	
			C-1,2-DCE	1.4	01/97	ND	06/17	
			1,1-DCA	0.5	09/01	ND	06/17	
			NITRATE (N)	21.5	01/80	9.9	05/17	
			CLO4	174.0	02/98	6.6	05/17	
			AS	2.1	08/04	ND	10/16	
			CR6	4.3	06/01	4.0	10/16	
04	MUNICIPAL	INACTIVE	TCE	84.3	03/00	46.0	04/04	
			PCE	6.6	03/00	2.9	04/04	
			CTC	7.6	04/95	1.9	04/04	
			1,1-DCA	0.7	04/04	0.7	04/04	
			1,2-DCA	8.1	03/00	4.4	04/04	
			1,1-DCE	1.3	04/97	0.5	04/04	
			C-1,2-DCE	15.6	11/98	1.7	04/04	
			NITRATE (N)	5.6	04/95	4.1	04/04	
			CLO4	159.0	06/97	71.2	04/04	
			AS	2.3	09/94	ND	11/98	
			CR6	4.3	11/00	4.3	11/00	
05	MUNICIPAL	ACTIVE	TCE	43.0	03/08	12.0	12/17	VULNERABLE
			PCE	3.8	03/08	1.0	12/17	(NO3(N),VOC,CLO4)
			CTC	2.3	03/08	ND	12/17	
			1,1-DCA	0.5	03/08	ND	12/17	
			1,2-DCA	2.7	03/08	ND	12/17	
			1,1-DCE	0.5	03/08	ND	12/17	
			C-1,2-DCE	0.8	11/08	ND	12/17	
			NITRATE (N)	7.8	12/16	7.2	03/18	
			CLO4	65.0	03/08	14.0	05/17	
			AS	1.1	03/08	ND	03/18	
			CR6	3.7	03/18	3.7	03/18	
LA VERNE, CITY OF								
SNIDO	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
W15-L	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
W24-L	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

LEE, PAUL

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
03	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
04	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LOS ANGELES, COUNTY OF								
02	NON POTABLE	DESTROYED	PCE	6.6	09/04	6.6	09/04	
			TCE	1.3	09/04	1.3	09/04	
			1,2-DCA	0.5	01/96	ND	09/04	
			NITRATE (N)	2.4	09/04	2.4	09/04	
			CLO4	ND	08/97	ND	08/97	
03	IRRIGATION	DESTROYED	PCE	2.1	06/94	2.1	06/94	
			TCE	0.7	06/94	0.7	06/94	
			NITRATE (N)	1.1	06/94	1.1	06/94	
			CLO4	NA	NA	NA	NA	
03A	IRRIGATION	DESTROYED	PCE	2.5	11/99	ND	10/08	
			NITRATE (N)	0.5	08/96	ND	10/08	
			CLO4	ND	08/97	ND	08/97	
04	IRRIGATION	DESTROYED	1,1,1-TCA	0.7	05/87	ND	11/87	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
05	IRRIGATION	DESTROYED	PCE	39.0	09/03	35.7	10/08	
			TCE	1.3	09/03	ND	10/08	
			NITRATE (N)	4.1	09/03	3.2	10/08	
			CLO4	ND	08/97	ND	08/97	
06	IRRIGATION	DESTROYED	PCE	7.4	08/96	2.8	11/99	
			TCE	8.3	08/96	2.9	11/99	
			1,1-DCA	2.0	08/96	ND	11/99	
			1,1-DCE	1.4	08/96	ND	11/99	
			C-1,2-DCE	4.5	08/96	0.8	11/99	
			NITRATE (N)	2.6	08/96	1.9	11/99	
			CLO4	NA	NA	NA	NA	
600	IRRIGATION	INACTIVE	VOCS	ND	07/98	ND	07/98	
			NITRATE (N)	1.1	07/98	1.1	07/98	
			CLO4	ND	07/98	ND	07/98	
BIG RED	NON POTABLE	INACTIVE	1,2-DCA	0.6	01/96	ND	10/09	
			NITRATE (N)	2.7	09/02	ND	10/09	
			CLO4	ND	08/97	ND	08/97	
NEW LAKE	NON POTABLE	INACTIVE	PCE	19.7	02/00	ND	11/10	
			TCE	0.9	02/00	ND	11/10	
			NITRATE (N)	5.0	02/00	4.1	11/10	
			CLO4	ND	08/97	ND	08/97	
SF 1	NON POTABLE	ACTIVE	TCE	4.3	09/04	ND	10/17	
			PCE	7.6	09/04	ND	10/17	
			VC	1.4	12/87	ND	10/17	
			NITRATE (N)	3.6	09/02	1.6	10/17	
			CLO4	ND	06/97	ND	05/10	
WHI 1	NON POTABLE	INACTIVE	PCE	3.8	09/04	1.4	11/10	
			TCE	1.0	09/04	ND	11/10	
			NITRATE (N)	1.7	10/09	1.2	11/10	
			CLO4	ND	08/97	ND	08/97	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
LOS FLORES MUTUAL WATER COMPANY								
HI 1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LO 1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LOUCKS, DAVID								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MAECHTLEN ESTATE								
M-N	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
OLD60	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
SNIDO	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MANNING BROTHERS ROCK AND SAND COMPANY								
36230	INDUSTRIAL	DESTROYED	TCE	520.0	12/79	100.0	01/80	
			CLO4	NA	NA	NA	NA	
MAPLE WATER COMPANY								
01	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96	
			NITRATE (N)	15.4	09/94	12.5	07/96	
			CLO4	NA	NA	NA	NA	
			AS	1.3	07/96	1.3	07/96	
02	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96	
			NITRATE (N)	14.2	11/89	12.5	07/96	
			CLO4	NA	NA	NA	NA	
			AS	1.3	07/96	1.3	07/96	
MARTINEZ, FRANCES M.								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA								
02	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
03	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MILLERCOORS LLC (MILLER BREWERIES WEST, L.P. /MILLER BREWING COMPANY)								
01	INDUSTRIAL	INACTIVE	VOCS	ND	01/92	ND	10/09	
			NITRATE (N)	2.2	01/93	1.0	10/09	
			CLO4	ND	06/97	ND	06/08	
			AS	3.9	06/08	3.9	06/08	
02	INDUSTRIAL	ACTIVE	VOCS	ND	01/92	ND	02/18	
			NITRATE (N)	3.2	10/92	0.9	06/16	
			CLO4	ND	06/97	ND	06/14	
			AS	3.5	05/08	3.3	06/13	
			CR6	ND	12/14	ND	12/14	
N BREWER	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	



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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			CLO4	NA	NA	NA	NA	
MOON VALLEY NURSERY (COINER, JAMES W., DBA COINER NURSERY)								
03	NON-POTABLE	INACTIVE	PCE	293.5	02/98	170.0	10/01	
			TCE	10.2	11/87	3.4	10/01	
			CTC	1.6	08/87	1.6	10/01	
			1,1-DCE	6.7	02/98	4.6	10/01	
			C-1,2-DCE	6.8	07/96	2.7	10/01	
			1,1,1-TCA	22.0	02/98	12.0	10/01	
			NITRATE (N)	15.1	10/01	10.1	09/07	
			CLO4	9.0	02/98	ND	09/98	
05R	NON-POTABLE	ACTIVE	PCE	7.7	02/98	1.5	10/17	
			TCE	1.6	10/01	ND	10/17	
			CTC	2.7	07/96	ND	10/17	
			1,1-DCE	5.5	10/01	ND	10/17	
			NITRATE (N)	24.8	10/09	3.7	10/17	
			CLO4	9.0	02/98	4.0	09/98	
MONROVIA, CITY OF								
01	MUNICIPAL	DESTROYED	TCE	46.8	11/92	12.0	04/02	
			PCE	3.9	03/81	0.8	04/02	
			1,1-DCE	1.2	08/96	0.9	04/02	
			1,1,1-TCA	2.1	08/87	ND	07/01	
			NITRATE (N)	17.6	02/01	13.6	03/02	
			CLO4	11.1	02/01	8.4	04/02	
			AS	2.5	10/00	2.5	10/00	
02	MUNICIPAL	ACTIVE	TCE	167.0	08/82	2.2	04/18	VULNERABLE (VOC,CLO4,NO3(N))
			PCE	11.0	08/82	ND	04/18	
			1,1,1-TCA	7.1	02/87	ND	08/17	
			1,1-DCE	3.4	06/87	ND	04/18	
			1,2-DCA	1.5	02/87	ND	08/17	
			NITRATE (N)	16.0	04/18	16.0	04/18	
			CLO4	6.9	04/15	4.2	04/18	
			AS	0.9	08/96	ND	04/16	
			CR6	7.1	04/16	7.1	04/16	
03	MUNICIPAL	ACTIVE	TCE	18.0	08/82	1.6	04/18	VULNERABLE (NO3(N),VOC)
			PCE	17.0	08/82	ND	04/18	
			1,1-DCE	0.8	12/08	ND	04/18	
			NITRATE (N)	11.2	05/76	1.7	04/18	
			CLO4	ND	08/97	ND	08/17	
			AS	3.6	08/97	ND	04/16	
			CR6	5.8	08/13	1.7	04/16	
04	MUNICIPAL	ACTIVE	TCE	6.5	02/91	1.7	04/18	VULNERABLE (VOC,NO3(N))
			PCE	1.0	02/91	0.5	04/18	
			1,1-DCE	1.1	01/05	ND	04/18	
			NITRATE (N)	6.5	06/91	3.3	04/18	
			CLO4	ND	08/97	ND	10/18	
			AS	3.8	08/97	ND	12/16	
			CR6	1.1	07/01	ND	12/16	
05	MUNICIPAL	ACTIVE	TCE	6.5	06/16	4.6	04/18	VULNERABLE (VOC,NO3(N))
			PCE	1.0	10/02	ND	04/18	
			1,1-DCE	1.0	10/02	ND	04/18	
			NITRATE (N)	6.6	01/91	2.8	04/18	
			CLO4	ND	08/97	ND	08/17	
			AS	1.0	08/96	ND	04/16	
			CR6	1.5	04/16	1.5	04/16	
06	MUNICIPAL	ACTIVE	TCE	23.0	04/14	13.0	04/18	VULNERABLE (NO3(N),CLO4,VOC)
			PCE	2.3	01/10	2.0	04/18	
			1,1-DCE	0.8	10/07	0.5	04/18	
			NITRATE (N)	9.5	06/14	6.9	04/18	
			CLO4	4.9	06/14	ND	08/17	
			AS	ND	10/99	ND	04/16	
			CR6	3.5	04/16	3.5	04/16	
MONROVIA NURSERY								

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
DIV 4	IRRIGATION	DESTROYED	VOCS	ND	08/96	ND	02/07	
			NITRATE (N)	48.1	09/04	45.6	02/07	
			CLO4	ND	02/98	ND	02/98	
DIV 8	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MONTEREY PARK, CITY OF								
01	MUNICIPAL	ACTIVE	PCE	64.1	12/08	4.6	05/18	VULNERABLE (NO3(N),CLO4,VOC)
			TCE	4.1	05/04	ND	05/18	
			1,1-DCE	0.6	05/04	ND	05/18	
			1,1-DCA	1.0	05/04	ND	02/18	
			C-1,2-DCE	1.0	03/04	ND	05/18	
			NITRATE (N)	5.4	12/12	1.9	05/18	
			CLO4	4.7	05/04	ND	08/17	
			AS	0.5	07/96	ND	08/17	
			CR6	6.2	11/00	5.1	08/17	
02	MUNICIPAL	DESTROYED	PCE	6.4	04/98	6.4	04/98	
			NITRATE (N)	4.1	07/95	2.9	07/97	
			CLO4	3.0	07/97	ND	03/98	
			AS	0.4	07/96	0.4	07/96	
03	MUNICIPAL	INACTIVE	PCE	25.0	08/11	22.0	05/12	
			TCE	2.7	05/04	1.3	05/12	
			C-1,2-DCE	0.8	05/04	ND	05/12	
			NITRATE (N)	3.0	07/97	1.2	05/12	
			CLO4	4.2	05/04	ND	08/11	
			AS	12.9	08/89	4.1	08/11	
			CR6	3.2	05/04	2.5	01/10	
04	MUNICIPAL	DESTROYED	PCE	0.4	01/80	ND	11/87	
			NITRATE (N)	1.4	09/87	1.4	09/87	
			CLO4	NA	NA	NA	NA	
05	MUNICIPAL	ACTIVE	PCE	40.0	06/13	19.0	05/18	VULNERABLE (NO3(N),CLO4,VOC)
			TCE	7.0	01/92	0.6	05/18	
			C-1,2-DCE	2.0	11/01	ND	05/18	
			1,1-DCA	1.1	11/01	ND	05/18	
			1,1-DCE	0.7	11/01	ND	05/18	
			NITRATE (N)	6.1	11/15	5.3	05/18	
			CLO4	6.5	02/01	ND	05/18	
			AS	1.5	10/12	ND	11/15	
			CR6	4.7	11/14	4.7	11/15	
06	MUNICIPAL	INACTIVE	PCE	13.6	03/01	3.1	05/05	
			TCE	6.4	05/89	3.1	05/05	
			C-1,2-DCE	1.3	01/99	1.2	05/05	
			1,1-DCA	0.8	11/01	0.6	05/05	
			NITRATE (N)	6.8	06/03	5.6	05/05	
			CLO4	5.9	04/02	5.9	04/02	
			AS	2.2	09/00	ND	08/02	
CR6	4.1	11/00	3.4	05/01				
07	MUNICIPAL	INACTIVE	PCE	6.0	09/10	6.0	09/10	
			NITRATE (N)	2.9	08/89	0.6	08/10	
			CLO4	ND	08/97	ND	08/10	
			AS	28.4	07/96	2.1	08/09	
			CR6	5.3	02/07	5.1	01/10	
08	MUNICIPAL	INACTIVE	PCE	2.5	02/05	1.9	03/09	
			NITRATE (N)	3.8	08/05	ND	11/08	
			CLO4	ND	08/97	ND	11/08	
			AS	45.0	03/09	45.0	03/09	
			CR6	6.7	12/01	6.7	12/01	
09	MUNICIPAL	ACTIVE	PCE	13.0	05/15	ND	05/18	VULNERABLE (VOC,AS)
			TCE	1.3	04/97	ND	05/18	
			NITRATE (N)	4.1	07/12	ND	05/18	
			CLO4	ND	08/97	ND	05/18	
			AS	15.0	06/07	12.0	04/17	
			CR6	3.4	11/00	2.4	02/16	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
10	MUNICIPAL	ACTIVE	PCE	17.0	02/12	9.7	05/18	VULNERABLE (NO3(N),CLO4,AS,VOC)	
			TCE	2.6	05/04	0.8	05/18		
			C-1,2-DCE	0.8	05/04	ND	05/18		
			NITRATE (N)	6.5	05/18	6.5	05/18		
			CLO4	4.3	05/04	ND	08/17		
			AS	6.7	07/98	3.1	05/17		
			CR6	6.6	11/00	5.7	08/16		
12	MUNICIPAL	ACTIVE	PCE	85.0	05/02	45.0	05/18	VULNERABLE (NO3(N),CLO4,VOC)	
			TCE	5.4	10/95	2.2	05/18		
			1,1-DCA	1.3	05/12	0.7	11/17		
			1,1-DCE	0.5	05/12	ND	05/18		
			C-1,2-DCE	1.4	05/12	ND	05/18		
			NITRATE (N)	6.1	08/07	2.8	05/18		
			CLO4	15.0	09/97	ND	05/18		
			AS	ND	04/81	ND	05/17		
			CR6	4.6	02/07	3.8	02/16		
14	MUNICIPAL	INACTIVE	PCE	2.2	05/02	0.7	05/06		
			TCE	2.9	11/02	1.5	05/06		
			1,1-DCA	0.8	08/02	ND	05/06		
			C-1,2-DCE	1.0	11/02	ND	05/06		
			NITRATE (N)	2.3	10/06	2.3	10/06		
			CLO4	ND	08/97	ND	05/03		
			AS	41.0	08/05	39.0	03/06		
			CR6	1.0	11/00	1.0	05/01		
15	MUNICIPAL	ACTIVE	PCE	190.0	02/12	84.0	05/18	VULNERABLE (NO3(N),VOC)	
			TCE	3.6	03/15	2.2	05/18		
			C-1,2-DCE	0.8	08/16	ND	05/18		
			1,1-DCA	0.7	08/16	ND	11/17		
			NITRATE (N)	5.2	11/08	4.0	05/18		
			CLO4	2.4	07/06	ND	05/18		
			AS	ND	09/06	ND	05/17		
CR6	2.9	02/07	ND	08/15					
FERN	MUNICIPAL	ACTIVE	PCE	12.0	08/10	ND	05/18	VULNERABLE (VOC,AS)	
			TCE	2.8	10/16	ND	05/18		
			C-1,2-DCE	0.7	03/04	ND	05/18		
			NITRATE (N)	1.5	03/04	ND	08/17		
			CLO4	2.0	08/97	ND	08/17		
			AS	16.0	07/16	15.0	05/17		
			CR6	1.5	11/00	ND	08/16		
NAMIMATSU FARMS									
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
OWL ROCK PRODUCTS COMPANY									
NA	INDUSTRIAL	INACTIVE	VOCS	ND	05/87	ND	10/09		
			NITRATE (N)	2.0	08/89	ND	10/09		
			CLO4	NA	NA	NA	NA		
NA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	ND	10/17		
			NITRATE (N)	NA	NA	ND	10/17		
			CLO4	NA	NA	NA	NA		
NA	INDUSTRIAL	INACTIVE	VOCS	ND	10/02	ND	11/04		
			NITRATE (N)	NA	NA	NA	11/04		
			CLO4	NA	NA	NA	NA		
PICO COUNTY WATER DISTRICT									
NA	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NITRATE (N)	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
POLOPOLUS ET AL.									
01	IRRIGATION	INACTIVE	PCE	330.0	10/96	270.0	03/98		
			TCE	498.9	09/92	180.0	03/98		

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
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WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			1,1-DCA	22.0	03/98	22.0	03/98	
			1,2-DCA	1.2	06/96	0.9	03/98	
			1,1-DCE	115.3	09/92	22.0	03/98	
			T-1,2-DCE	1.5	06/87	ND	03/98	
			1,1,1-TCA	53.0	09/92	12.0	03/98	
			CTC	0.8	06/96	0.6	03/98	
			NITRATE (N)	11.5	07/91	6.7	03/98	
			CLO4	ND	03/98	ND	03/98	
RICHWOOD MUTUAL WATER COMPANY								
NORTH 2	MUNICIPAL	DESTROYED	PCE	93.0	05/83	4.0	12/93	
			TCE	3.0	03/81	ND	05/92	
			CTC	0.2	10/80	ND	05/92	
			NITRATE (N)	5.6	02/84	4.5	06/99	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/90	ND	09/92	
SOUTH 1	MUNICIPAL	DESTROYED	PCE	96.0	05/83	3.4	12/93	
			TCE	0.7	12/82	ND	05/92	
			NITRATE (N)	6.5	06/99	6.5	06/99	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/90	ND	09/92	
ROY, RUTH								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
RURBAN HOMES MUTUAL WATER COMPANY								
NORTH 1	MUNICIPAL	ACTIVE	PCE	16.0	11/80	ND	03/18	VULNERABLE (VOC,NO3(N))
			1,1-DCE	0.9	09/08	ND	03/18	
			FREON 11	13.3	05/04	ND	03/18	
			FREON 113	64.4	05/04	ND	03/18	
			NITRATE (N)	6.8	03/01	1.9	09/17	
			CLO4	ND	09/97	ND	09/17	
			AS	3.0	08/03	2.5	09/15	
			CR6	1.0	06/01	ND	09/15	
SOUTH 2	MUNICIPAL	INACTIVE	PCE	24.3	02/81	ND	03/13	
			1,1-DCE	1.7	10/08	ND	03/13	
			FREON 11	14.1	05/04	ND	03/13	
			FREON 113	54.2	05/04	ND	03/13	
			NITRATE (N)	8.6	03/07	4.7	03/13	
			CLO4	ND	09/97	ND	06/11	
			AS	3.0	08/03	2.1	09/12	
			CR6	1.0	06/01	ND	12/01	
SAN GABRIEL COUNTRY CLUB								
01	IRRIGATION	ACTIVE	VOCS	ND	05/85	ND	10/17	
			NITRATE (N)	15.1	07/96	13.0	10/17	
			CLO4	8.5	07/97	5.4	08/05	
02	IRRIGATION	ACTIVE	VOCS	ND	05/87	ND	10/17	
			NITRATE (N)	7.9	10/17	7.9	10/17	
			CLO4	1.4	12/97	1.1	08/05	
SAN GABRIEL COUNTY WATER DISTRICT								
05 BRA	MUNICIPAL	INACTIVE	TCE	0.9	01/97	ND	03/01	
			PCE	1.9	02/99	1.0	03/01	
			NITRATE (N)	19.0	08/89	16.0	03/01	
			CLO4	ND	09/97	ND	09/00	
			AS	0.6	08/96	ND	08/98	
			CR6	7.0	12/00	7.0	12/00	
06 BRA	MUNICIPAL	DESTROYED	VOCS	ND	02/99	ND	02/99	
			NITRATE (N)	24.6	08/72	13.0	03/00	
			CLO4	3.0	02/99	3.0	02/99	
07	MUNICIPAL	DESTROYED	VOCS	ND	09/89	ND	10/11	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS				
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT						
				VALUE	DATE	VALUE	DATE					
08	MUNICIPAL	INACTIVE	NITRATE (N)	10.8	03/03	7.9	10/11					
			CLO4	5.6	03/03	ND	10/11					
			AS	1.3	08/96	ND	07/09					
			CR6	4.5	07/01	4.5	07/01					
			VOCS	ND	01/90	ND	03/91					
			NITRATE (N)	17.2	01/82	5.3	08/93					
			CLO4	NA	NA	NA	NA					
			AS	ND	06/78	ND	08/90					
			09	MUNICIPAL	ACTIVE	PCE	2.7		01/16	2.5	04/18	VULNERABLE (VOC,NO3(N))
						NITRATE (N)	11.5		03/03	4.7	04/18	
CLO4	ND	09/97				ND	07/18					
AS	ND	09/89				ND	07/15					
CR6	8.1	12/02				7.8	07/15					
10	MUNICIPAL	INACTIVE	PCE	18.0	08/93	1.9	11/98					
			NITRATE (N)	11.3	05/89	7.0	11/98					
			CLO4	5.5	11/98	5.5	11/98					
			AS	ND	06/78	ND	11/98					
			11	MUNICIPAL	ACTIVE	PCE	3.9		01/18	3.9	01/18	VULNERABLE (VOC,NO3(N))
TCE	0.7	04/12				ND	01/18					
NITRATE (N)	14.0	01/18				14.0	01/18					
CLO4	ND	09/97				ND	07/17					
AS	ND	06/78				ND	07/16					
CR6	25.0	12/00				7.3	07/16					
12	MUNICIPAL	ACTIVE	TCE	0.8	09/02	ND	07/17	VULNERABLE (AS)				
			PCE	1.1	07/17	0.9	04/18					
			NITRATE (N)	2.0	06/16	2.0	10/17					
			CLO4	ND	09/97	ND	07/18					
			AS	7.0	10/96	4.5	10/17					
			CR6	7.6	07/01	6.2	10/17					
			14	MUNICIPAL	ACTIVE	PCE	0.6		09/02	ND	07/17	
NITRATE (N)	4.4	02/17				1.0	07/17					
CLO4	ND	09/97				ND	07/17					
AS	3.1	07/08				2.5	07/17					
CR6	4.6	07/01				2.7	07/17					
15	MUNICIPAL	ACTIVE				PCE	3.0	04/18	3.0	04/18	VULNERABLE (NO3(N))	
			NITRATE (N)	7.5	03/17	6.9	04/18					
			CLO4	ND	12/14	ND	10/17					
			AS	ND	06/14	ND	04/17					
			CR6	3.6	11/14	2.9	04/17					
			SAN GABRIEL VALLEY WATER COMPANY									
1B	MUNICIPAL	ACTIVE	PCE	46.0	04/81	ND	05/18	VULNERABLE (VOC,NO3(N))				
			TCE	1.8	02/80	ND	08/17					
			FREON 113	22.3	08/08	ND	08/17					
			NITRATE (N)	5.1	05/08	0.8	05/18					
			CLO4	ND	08/97	ND	08/17					
			AS	2.9	07/96	2.1	08/17					
			CR6	1.0	05/14	ND	08/17					
1C	MUNICIPAL	INACTIVE	VOCS	ND	07/98	ND	08/17					
			NITRATE (N)	1.9	08/11	1.1	08/17					
			CLO4	ND	10/99	ND	08/17					
			AS	2.6	09/94	2.1	08/15					
			CR6	1.0	05/01	ND	08/15					
1D	MUNICIPAL	ACTIVE	VOCS	ND	07/98	ND	08/17					
			NITRATE (N)	1.1	07/89	0.9	08/17					
			CLO4	ND	08/97	ND	08/17					
			AS	2.0	11/06	ND	11/15					
			CR6	1.0	05/01	ND	11/15					
1E	MUNICIPAL	ACTIVE	PCE	0.7	09/02	ND	05/18	VULNERABLE (CLO4)				
			NITRATE (N)	1.1	11/16	1.0	11/17					
			CLO4	5.0	06/00	ND	08/17					
			AS	2.7	11/08	2.0	11/17					
			CR6	1.0	05/01	ND	11/17					

**SAN GABRIEL VALLEY WATER COMPANY**

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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
2C	MUNICIPAL	DESTROYED	TCE	15.2	12/80	ND	11/05	
			PCE	3.0	10/87	ND	11/05	
			NITRATE (N)	3.7	08/04	1.2	08/05	
			CLO4	ND	08/97	ND	02/03	
			AS	ND	07/89	ND	08/05	
2D	MUNICIPAL	ACTIVE	TCE	25.0	12/80	ND	05/18	VULNERABLE (VOC)
			PCE	0.9	03/17	ND	05/18	
			NITRATE (N)	1.9	08/15	1.6	08/17	
			CLO4	ND	08/97	ND	08/17	
			AS	ND	07/89	ND	08/17	
2E	MUNICIPAL	ACTIVE	CR6	3.2	08/17	3.2	08/17	VULNERABLE (VOC)
			TCE	18.0	01/80	ND	05/18	
			PCE	3.6	09/16	2.5	05/18	
			NITRATE (N)	4.5	08/15	3.3	08/17	
			CLO4	ND	08/97	ND	08/17	
2F	MUNICIPAL	ACTIVE	AS	ND	07/89	ND	08/17	
			CR6	3.8	08/17	3.8	08/17	
			TCE	1.3	02/15	ND	05/18	
			PCE	1.3	09/16	ND	05/18	
			NITRATE (N)	2.5	08/15	1.8	08/17	
8A	MUNICIPAL	INACTIVE	CLO4	ND	09/06	ND	08/17	
			AS	0.7	03/06	ND	08/15	
			CR6	3.1	08/15	3.1	08/15	
			PCE	0.6	11/87	ND	02/97	
			NITRATE (N)	9.1	02/97	9.1	02/97	
8B	MUNICIPAL	ACTIVE	CLO4	NA	NA	NA	NA	VULNERABLE (NO3(N),VOC)
			AS	ND	07/89	ND	07/89	
			PCE	220.0	02/09	130.0	05/18	
			TCE	1.2	11/15	0.7	05/18	
			NITRATE (N)	5.2	08/08	4.0	08/17	
8C	MUNICIPAL	ACTIVE	CLO4	3.0	08/97	ND	08/17	VULNERABLE (CLO4,VOC)
			AS	0.4	07/96	ND	08/15	
			CR6	2.9	11/02	2.4	08/15	
			PCE	170.0	05/09	63.0	05/18	
			TCE	0.8	05/09	ND	05/18	
8D	MUNICIPAL	ACTIVE	NITRATE (N)	4.5	07/98	4.0	08/17	VULNERABLE (NO3(N),AS,VOC)
			CLO4	4.0	03/08	ND	08/17	
			AS	0.5	07/96	ND	08/15	
			CR6	3.4	08/15	3.4	08/15	
			PCE	160.0	08/17	120.0	05/18	
8E	MUNICIPAL	ACTIVE	TCE	1.0	02/14	0.6	05/18	VULNERABLE (VOC)
			C-1,2 DCE	0.8	05/04	ND	05/18	
			CTC	0.6	06/88	ND	05/18	
			NITRATE (N)	6.6	06/09	4.1	05/18	
			CLO4	2.3	03/08	ND	08/17	
8F	MUNICIPAL	ACTIVE	AS	29.5	09/94	ND	05/17	
			CR6	3.3	11/00	2.9	05/17	
			PCE	10.0	03/03	<0.5	05/18	
			NITRATE (N)	1.6	07/01	ND	08/17	
			CLO4	ND	08/97	ND	08/17	
11A	MUNICIPAL	ACTIVE	AS	2.8	08/95	ND	08/16	
			CR6	4.8	08/16	4.8	08/16	
			VOCS	ND	10/98	ND	08/17	
			NITRATE (N)	4.3	11/10	0.9	11/17	
			CLO4	ND	01/99	ND	08/17	
			AS	2.2	11/01	2.1	11/16	
			CR6	7.0	11/16	7.0	11/16	
			PCE	1.5	02/08	ND	05/18	
			NITRATE (N)	3.3	07/89	1.8	08/17	
			CLO4	ND	08/97	ND	08/17	
			AS	3.9	07/96	2.9	08/15	
			CR6	6.8	05/01	5.4	08/15	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
11B	MUNICIPAL	ACTIVE	PCE	17.8	04/90	ND	05/18	VULNERABLE (VOC)	
			TCE	4.0	04/90	ND	05/18		
			1,1-DCE	0.2	04/89	ND	12/17		
			C-1,2-DCE	3.0	04/89	ND	12/17		
			NITRATE (N)	4.1	08/06	1.6	12/17		
			CLO4	ND	06/97	ND	12/17		
			AS	4.8	09/94	2.4	12/15		
			CR6	6.1	11/00	2.4	12/15		
11C	MUNICIPAL	ACTIVE	PCE	4.1	12/91	ND	05/18	VULNERABLE (VOC,AS)	
			TCE	0.6	12/91	ND	08/17		
			1,1-DCE	1.1	08/08	ND	08/17		
			C-1,2-DCE	2.5	03/92	ND	05/18		
			NITRATE (N)	2.7	08/06	1.7	08/17		
			CLO4	ND	08/97	ND	08/16		
			AS	7.5	07/96	3.0	08/15		
			CR6	4.8	05/01	1.0	08/15		
B1	MUNICIPAL	INACTIVE	TCE	12.0	04/85	ND	08/06		
			PCE	7.3	05/88	ND	08/06		
			C-1,2-DCE	7.2	12/92	ND	08/06		
			1,1-DCE	2.1	08/89	ND	08/06		
			NITRATE (N)	3.9	02/87	0.8	03/05		
			CLO4	ND	08/97	ND	02/03		
			AS	2.8	07/96	2.3	02/05		
B2	MUNICIPAL	INACTIVE	TCE	17.0	03/80	ND	11/98		
			PCE	15.8	06/80	0.7	11/98		
			CTC	1.7	05/82	ND	11/98		
			1,2-DCA	7.7	07/82	ND	11/98		
			1,1,1-TCA	7.6	07/82	ND	11/98		
			C-1,2-DCE	2.6	08/93	ND	11/98		
			NITRATE (N)	2.0	11/98	2.0	11/98		
			CLO4	ND	11/98	ND	11/98		
B4B	MUNICIPAL	INACTIVE	TCE	25.2	02/08	25.2	02/08		
			PCE	43.0	11/07	5.8	02/08		
			CTC	10.0	11/03	6.6	02/08		
			1,2-DCA	1.0	09/07	0.5	02/08		
			1,1-DCE	3.2	11/07	2.3	02/08		
			C-1,2-DCE	4.2	11/07	2.7	02/08		
			NITRATE (N)	3.0	11/07	3.0	11/07		
			CLO4	24.5	04/08	24.5	04/08		
			AS	6.3	08/95	2.0	02/08		
CR6	4.1	05/01	4.1	05/01					
B4C	MUNICIPAL	INACTIVE	CTC	22.3	02/01	14.0	08/01		
			TCE	15.5	02/01	9.3	08/01		
			PCE	3.4	02/01	2.2	08/01		
			1,1-DCE	2.3	09/01	2.3	09/01		
			C-1,2-DCE	2.4	09/01	2.4	09/01		
			NITRATE (N)	3.2	02/01	3.2	02/01		
			CLO4	6.0	06/00	ND	07/00		
			AS	5.8	08/95	ND	03/99		
			CR6	3.3	05/01	3.3	05/01		
B5A	MUNICIPAL	INACTIVE	PCE	17.5	03/91	ND	11/05		
			TCE	5.2	03/98	ND	11/05		
			1,1-DCE	2.5	03/85	ND	08/05		
			CTC	1.1	12/91	ND	11/05		
			1,1,1-TCA	3.7	03/90	ND	08/05		
			NITRATE (N)	10.4	07/96	5.7	11/05		
			CLO4	14.0	06/97	4.0	08/05		
			AS	2.8	07/96	2.0	08/05		
CR6	6.4	11/00	6.2	05/01					
B5B	MUNICIPAL	ACTIVE	TCE	5.8	02/97	2.2	05/18	VULNERABLE (VOC,NO3(N),CLO4)	
			PCE	4.3	10/16	3.7	05/18		
			CTC	2.3	02/85	ND	05/18		
			1,1-DCE	0.6	12/17	0.6	05/18		
			1,2-DCA	0.6	09/07	ND	05/18		
			NITRATE (N)	12.7	12/12	9.5	05/18		
			CLO4	12.0	06/97	4.6	05/18		
			AS	2.4	08/16	2.4	08/16		

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
B5C	MUNICIPAL	INACTIVE	CR6	7.1	08/16	7.1	08/16	
			VOCS	ND	05/89	ND	08/07	
			NITRATE (N)	0.9	05/07	0.9	05/07	
			CLO4	ND	06/97	ND	03/08	
			AS	5.8	08/95	2.0	08/07	
			CR6	5.8	05/01	5.8	05/01	
B5D	MUNICIPAL	ACTIVE	CTC	1.2	11/15	0.7	05/18	VULNERABLE (VOC)
			NITRATE (N)	1.1	08/08	0.7	08/17	
			CLO4	ND	12/97	ND	08/17	
			AS	2.4	09/10	2.4	08/16	
			CR6	4.6	05/01	3.2	08/16	
B5E	MUNICIPAL	ACTIVE	TCE	21.0	10/16	18.0	05/18	VULNERABLE (NO3(N),VOC,CLO4)
			PCE	3.8	08/15	3.0	05/18	
			CTC	5.2	05/07	1.8	05/18	
			1,2-DCA	1.2	10/16	0.9	05/18	
			1,1-DCE	1.1	08/16	0.7	05/18	
			C-1,2-DCE	1.6	10/16	0.8	05/18	
			NITRATE (N)	5.9	08/15	4.4	05/18	
			CLO4	21.0	11/14	12.0	05/18	
			AS	3.0	08/07	2.9	08/16	
			CR6	7.0	02/09	6.6	08/16	
B6B	MUNICIPAL	DESTROYED	TCE	111.0	02/85	35.8	09/92	
			PCE	6.4	10/81	4.3	09/92	
			CTC	17.0	02/85	5.0	09/92	
			1,1-DCE	1.1	04/85	0.5	09/92	
			1,1-DCA	0.6	09/92	0.6	09/92	
			1,2-DCA	8.3	09/92	8.3	09/92	
			NITRATE (N)	19.3	02/91	12.9	09/92	
			CLO4	NA	NA	NA	NA	
B6C	MUNICIPAL	INACTIVE	TCE	84.0	03/88	1.3	08/16	VULNERABLE (VOC,NO3(N),CLO4)
			PCE	12.0	11/81	ND	08/16	
			CTC	13.0	02/85	ND	08/16	
			1,2-DCA	9.0	05/88	ND	08/16	
			1,1-DCE	1.5	06/94	ND	08/16	
			C-1,2-DCE	6.2	04/88	ND	08/16	
			NITRATE (N)	22.0	08/16	22.0	08/16	
			CLO4	370.0	11/05	18.0	08/16	
			AS	3.7	07/96	2.2	08/14	
			CR6	3.9	03/10	2.3	10/14	
B6D	MUNICIPAL	INACTIVE	TCE	140.0	05/11	45.0	05/17	VULNERABLE (NO3(N),VOC,CLO4)
			PCE	7.1	05/09	2.3	05/17	
			CTC	14.0	05/11	4.9	05/17	
			1,1-DCA	1.1	05/09	ND	05/17	
			1,2-DCA	3.7	05/11	1.1	05/17	
			1,1-DCE	1.0	08/08	ND	05/17	
			C-1,2-DCE	2.8	05/09	0.9	05/17	
			NITRATE (N)	6.6	05/15	5.5	08/17	
			CLO4	390.0	11/05	23.0	05/17	
			AS	3.1	07/96	2.4	08/17	
			CR6	2.9	10/14	2.6	08/17	
B7B	MUNICIPAL	DESTROYED	TCE	2.4	03/85	2.4	03/85	
			PCE	1.4	03/85	1.2	03/85	
			NITRATE (N)	2.8	08/87	2.8	08/87	
			CLO4	NA	NA	NA	NA	
B7C	MUNICIPAL	DESTROYED	TCE	15.0	11/10	4.8	11/14	
			PCE	35.0	03/03	15.0	11/14	
			1,1-DCE	6.7	12/89	2.9	11/14	
			C-1,2-DCE	4.7	12/93	0.9	11/14	
			CTC	0.6	02/89	ND	08/14	
			NITRATE (N)	6.4	08/92	3.4	08/14	
			CLO4	ND	06/97	ND	08/14	
			AS	2.0	08/05	ND	08/14	
			CR6	5.0	05/01	3.5	05/11	
B7D	MUNICIPAL	DESTROYED	PCE	5.3	07/87	3.5	09/87	
			TCE	3.9	07/87	3.3	09/87	



**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
B7E	MUNICIPAL	ACTIVE	1,1-DCE	5.3	05/87	5.0	09/87	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
			PCE	1.1	08/15	ND	05/18	
			NITRATE (N)	3.6	11/08	0.7	05/18	
			CLO4	ND	06/97	ND	08/17	
			AS	4.6	03/97	2.9	05/18	
B8	MUNICIPAL	INACTIVE	CR6	4.6	05/18	4.6	05/18	
			VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
B9	MUNICIPAL	INACTIVE	TCE	37.0	02/85	34.7	01/87	
			PCE	4.9	01/87	4.9	01/87	
			CTC	8.3	01/87	8.3	01/87	
			NITRATE (N)	19.1	02/86	15.4	02/87	
			CLO4	NA	NA	NA	NA	
B9B	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	09/17	
			NITRATE (N)	1.0	06/87	0.7	09/17	
			CLO4	1.2	03/08	ND	09/17	
			AS	3.5	08/95	ND	08/16	
			CR6	9.8	05/01	7.1	03/17	
B11A	MUNICIPAL	DESTROYED	TCE	9.8	08/01	5.8	08/04	
			PCE	21.7	05/92	8.5	08/04	
			1,1-DCE	14.0	08/01	2.8	08/04	
			CTC	0.9	01/88	ND	08/04	
			C-1,2-DCE	1.5	08/01	0.6	09/04	
			1,1-DCA	1.0	08/01	ND	08/04	
			NITRATE (N)	8.5	03/00	8.2	08/04	
			CLO4	8.0	12/97	ND	08/04	
			AS	2.7	07/96	ND	09/02	
			CR6	10.0	06/01	10.0	06/01	
			B11B	MUNICIPAL	ACTIVE	TCE	33.0	
PCE	34.5	06/92				4.3	05/18	
CTC	0.8	08/16				0.5	05/18	
1,1-DCE	64.0	11/14				6.4	05/18	
1,1-DCA	4.7	11/14				ND	11/17	
1,1,1-TCA	2.9	10/88				ND	08/17	
C-1,2-DCE	5.1	11/14				0.7	05/18	
NITRATE (N)	10.4	11/14				3.2	05/18	
CLO4	7.0	06/00				ND	08/17	
AS	2.2	07/96				ND	08/14	
CR6	10.3	05/01				9.7	08/17	
B24A	MUNICIPAL	ACTIVE	VOCS	ND	01/07	ND	02/18	
			NITRATE (N)	2.9	02/15	0.7	02/18	
			CLO4	ND	01/07	ND	08/17	
			AS	2.4	02/16	2.4	02/16	
			CR6	1.2	08/13	ND	02/16	
B24B	MUNICIPAL	ACTIVE	PCE	2.1	05/07	1.1	02/18	
			TCE	0.7	05/07	ND	02/18	
			NITRATE (N)	3.4	02/14	1.2	02/18	
			CLO4	ND	01/07	ND	08/17	
			AS	2.8	02/16	2.8	02/16	
B25A (SA3-1S)	MUNICIPAL	ACTIVE	CR6	3.3	08/13	1.1	02/16	
			TCE	73.0	05/17	64.0	05/18	
			PCE	35.0	08/13	27.0	05/18	
			CTC	5.9	10/07	2.0	05/18	
			1,1-DCA	0.7	05/17	0.7	11/17	
			1,2-DCA	1.7	08/16	1.3	05/18	
			1,1-DCE	6.6	02/08	4.5	05/18	
			C-1,2-DCE	6.3	08/07	4.2	05/18	
			NITRATE (N)	17.6	05/09	11.0	05/18	
			CLO4	50.0	11/17	30.0	05/18	
			AS	3.2	03/10	ND	05/16	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
B25B (SA3-1D)	MUNICIPAL	ACTIVE	CR6	3.2	08/14	3.1	05/16	VULNERABLE (NO3(N),VOC,CLO4)
			TCE	43.0	11/15	36.0	05/18	
			PCE	13.0	08/16	7.5	05/18	
			CTC	10.0	09/04	4.3	05/18	
			1,1-DCA	1.2	10/07	ND	11/17	
			1,2-DCA	0.7	05/17	0.7	05/18	
			1,1-DCE	4.8	08/14	1.7	05/18	
			C-1,2-DCE	3.1	08/16	1.9	05/18	
			NITRATE (N)	6.1	05/09	2.0	05/18	
			CLO4	25.0	02/18	15.0	05/18	
			AS	3.0	03/06	2.4	05/16	
B26A (SA3-2S)	MUNICIPAL	ACTIVE	CR6	2.4	08/06	2.4	05/16	VULNERABLE (VOC,NO3(N),CLO4)
			TCE	57.0	05/09	28.0	05/18	
			PCE	6.8	12/10	2.1	05/18	
			CTC	5.4	12/10	1.0	05/18	
			1,1-DCA	0.8	05/09	ND	11/17	
			1,2-DCA	4.3	11/04	1.2	05/18	
			1,1-DCE	2.0	12/10	ND	05/18	
			C-1,2-DCE	3.3	05/06	0.7	05/18	
			NITRATE (N)	16.0	05/17	13.0	05/18	
			CLO4	87.0	07/06	22.0	05/18	
			AS	3.0	03/06	2.1	02/15	
B26B (SA3-2D)	MUNICIPAL	ACTIVE	CR6	4.3	02/18	4.3	02/18	VULNERABLE (VOC,CLO4)
			TCE	100.0	05/17	78.0	05/18	
			PCE	3.0	05/17	2.4	05/18	
			CTC	17.0	08/16	8.4	05/18	
			1,2-DCA	3.6	08/16	2.3	05/18	
			1,1-DCE	0.6	08/16	ND	05/18	
			C-1,2-DCE	1.8	08/16	1.1	05/18	
			NITRATE (N)	3.7	10/16	3.6	05/18	
			CLO4	68.0	11/17	41.0	05/18	
			AS	2.9	11/04	2.2	02/18	
			EW4-5	MUNICIPAL	ACTIVE	CR6	3.7	
PCE	29.0	10/06				22.0	12/11	
TCE	4.1	10/06				1.6	12/11	
NITRATE (N)	3.6	12/05				2.9	11/11	
CLO4	ND	12/05				ND	11/11	
EW4-6	MUNICIPAL	INACTIVE	AS	1.1	08/09	1.1	08/09	
			PCE	8.1	06/06	4.7	12/11	
			TCE	1.1	10/06	0.7	12/11	
			NITRATE (N)	3.4	11/06	3.4	11/11	
			CLO4	ND	05/06	ND	11/11	
EW4-7	MUNICIPAL	INACTIVE	AS	1.0	08/09	1.0	08/09	
			PCE	8.2	01/06	2.0	12/11	
			TCE	1.8	02/06	ND	12/11	
			NITRATE (N)	4.1	01/06	2.9	11/11	
			CLO4	ND	12/05	ND	11/11	
G4A	MUNICIPAL	ACTIVE	AS	1.8	08/09	1.8	08/09	VULNERABLE (NO3(N),VOC)
			PCE	9.4	05/14	5.7	05/18	
			TCE	1.3	11/97	0.8	05/18	
			NITRATE (N)	6.3	05/14	5.1	05/18	
			CLO4	1.0	03/08	ND	02/18	
			AS	0.5	07/96	ND	11/15	
SIERRA LA VERNE COUNTRY CLUB								
01	IRRIGATION	INACTIVE	CR6	4.4	11/00	3.7	11/15	
			VOCS	ND	08/96	ND	10/07	
			NITRATE (N)	2.4	05/99	ND	10/07	
02	IRRIGATION	INACTIVE	CLO4	ND	03/98	ND	03/98	
			VOCS	ND	10/08	ND	10/10	
			NITRATE (N)	3.9	08/96	ND	10/10	
SLOAN RANCHES								
01	IRRIGATION	INACTIVE	CLO4	28.0	03/98	ND	04/98	
			VOCS	ND	08/96	ND	10/10	
			NITRATE (N)	3.9	08/96	ND	10/10	
SLOAN RANCHES								

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
01	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
SONOCO PRODUCTS COMPANY								
01	INDUSTRIAL	INACTIVE	TCE	28.6	12/99	1.9	10/17	
			PCE	8.5	12/99	3.4	10/17	
			1,1-DCE	113.0	12/99	4.3	10/17	
			1,1,1-TCA	71.8	12/99	ND	10/17	
			CTC	1.2	07/96	ND	10/17	
			NITRATE (N)	16.4	12/05	14.0	10/17	
			CLO4	ND	06/98	ND	07/04	
02	INDUSTRIAL	ACTIVE	TCE	16.0	10/03	1.0	10/17	
			PCE	1.8	10/03	1.6	10/17	
			1,1-DCE	5.9	02/98	2.0	10/17	
			1,1,1-TCA	2.0	11/87	ND	10/17	
			CTC	0.9	11/87	ND	10/17	
			NITRATE (N)	16.8	12/05	15.0	10/17	
			CLO4	10.0	02/98	ND	07/04	
SOUTH COVINA WATER SERVICE								
102W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
SOUTHERN CALIFORNIA EDISON COMPANY								
110RH	NON-POTABLE	ACTIVE	VOCS	ND	08/89	ND	02/07	
			NITRATE (N)	2.0	02/07	2.0	02/07	
			CLO4	ND	11/97	ND	11/97	
			AS	ND	08/98	ND	08/98	
1EB86	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
2EB76	IRRIGATION	DESTROYED	PCE	4.3	09/04	4.1	02/07	
			TCE	1.3	09/04	0.7	02/07	
			NITRATE (N)	11.6	09/98	6.0	02/07	
			CLO4	2.0	11/97	2.0	11/97	
38EIS	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
38W	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MURAT	IRRIGATION	DESTROYED	PCE	4.1	09/02	0.6	10/08	
			TCE	0.9	09/02	ND	10/08	
			NITRATE (N)	6.1	09/04	3.2	10/08	
			CLO4	ND	04/98	ND	04/98	
			AS	ND	04/98	ND	04/98	
SOUTH PASADENA, CITY OF								
GRAV 2	MUNICIPAL	INACTIVE	PCE	16.0	07/08	5.0	11/16	VULNERABLE (VOC,NO3(N),CLO4)
			CTC	0.9	07/08	ND	11/16	
			NITRATE (N)	13.1	04/87	10.0	11/16	
			CLO4	6.9	02/03	ND	11/16	
			AS	0.7	07/96	ND	08/15	
			CR6	4.0	06/01	2.9	08/15	
WIL 2	MUNICIPAL	INACTIVE	PCE	23.0	01/88	9.1	03/01	
			TCE	4.6	03/00	4.6	03/01	
			NITRATE (N)	19.6	03/00	17.6	02/01	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
WIL 3	MUNICIPAL	ACTIVE	CLO4	5.0	07/97	ND	12/99	VULNERABLE (VOC,NO3(N))
			AS	0.6	07/96	ND	08/99	
			PCE	9.5	08/94	ND	05/18	
			TCE	1.9	04/13	ND	05/18	
			NITRATE (N)	14.9	01/83	ND	05/18	
			CLO4	ND	07/97	ND	08/17	
			AS	2.2	08/01	ND	08/16	
WIL 4	MUNICIPAL	ACTIVE	CR6	3.7	08/16	3.7	08/16	VULNERABLE (VOC,NO3(N))
			PCE	8.1	06/00	ND	05/18	
			TCE	2.1	05/07	ND	05/18	
			NITRATE (N)	6.8	02/03	ND	05/18	
			CLO4	ND	07/97	ND	08/17	
			AS	2.0	02/03	ND	05/18	
			CR6	3.9	06/01	1.2	05/18	
SPEEDWAY 605 INC.								
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
NITRATE (N)	NA	NA	NA	NA				
CLO4	NA	NA	NA	NA				
STERLING MUTUAL WATER COMPANY								
NEW SO.	MUNICIPAL	ACTIVE	VOCS	ND	06/91	ND	11/17	VULNERABLE (NO3(N))
			NITRATE (N)	7.9	02/10	4.5	08/17	
			CLO4	ND	10/97	ND	08/16	
			AS	2.9	12/00	2.2	08/17	
			CR6	1.0	06/01	ND	08/17	
			NORTH	MUNICIPAL	ACTIVE	VOCS	ND	06/88
			NITRATE (N)	9.8	02/07	4.7	08/17	
			CLO4	ND	09/97	ND	08/16	
			AS	4.6	08/95	2.8	08/16	
			CR6	1.0	06/01	1.0	08/16	
SOUTH	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	06/91	
			NITRATE (N)	3.7	03/91	4.5	08/17	
			CLO4	NA	NA	NA	NA	
			AS	2.6	08/11	2.2	08/17	
SUBURBAN WATER SYSTEMS								
101W-1	MUNICIPAL	DESTROYED	TCE	1.5	07/87	ND	08/89	
			NITRATE (N)	12.2	08/89	12.2	08/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	02/88	ND	08/89	
102W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
102W-2	MUNICIPAL	DESTROYED	TCE	2.0	01/80	ND	06/85	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
103W-1	MUNICIPAL	DESTROYED	TCE	2.5	06/80	ND	07/82	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
105W-1	MUNICIPAL	DESTROYED	PCE	1.4	01/96	1.4	01/96	
			NITRATE (N)	10.4	04/95	10.4	04/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/88	ND	06/94	
106W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
111W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	18.6	03/73	18.6	03/73	
			CLO4	NA	NA	NA	NA	

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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
112W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	22.4	07/69	22.4	07/69	
			CLO4	NA	NA	NA	NA	
113W-1	MUNICIPAL	DESTROYED	TCE	0.7	02/80	0.5	03/85	
			NITRATE (N)	19.2	10/85	15.3	02/88	
			CLO4	NA	NA	NA	NA	
114W-1	MUNICIPAL	DESTROYED	TCE	2.9	01/80	ND	07/95	
			PCE	0.5	12/93	ND	07/95	
			NITRATE (N)	10.5	08/91	9.0	04/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	11/88	ND	11/94	
117W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
120W-1	MUNICIPAL	DESTROYED	TCE	0.3	07/82	ND	08/96	
			NITRATE (N)	14.9	07/88	13.7	08/96	
			CLO4	NA	NA	NA	NA	
121W-1	MUNICIPAL	ACTIVE	VOCS	ND	10/02	ND	05/17	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	6.1	04/17	3.8	08/17	
			CLO4	10.0	02/17	5.3	05/17	
			AS	1.6	02/04	ND	08/17	
			CR6	9.6	02/05	6.4	04/13	
122W-1	MUNICIPAL	DESTROYED	TCE	2.6	08/96	2.6	08/96	
			NITRATE (N)	20.3	05/86	13.7	08/96	
			CLO4	NA	NA	NA	NA	
			AS	3.0	08/79	ND	05/85	
123W-1	MUNICIPAL	DESTROYED	TCE	26.8	04/81	ND	08/96	
			PCE	33.0	04/81	ND	08/96	
			NITRATE (N)	10.6	05/76	0.9	08/96	
			CLO4	NA	NA	NA	NA	
124W-1	MUNICIPAL	DESTROYED	TCE	0.5	06/83	ND	08/89	
			NITRATE (N)	13.6	09/84	12.1	08/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/80	ND	08/89	
125W-1	MUNICIPAL	DESTROYED	VOCS	ND	01/80	ND	09/81	
			NITRATE (N)	6.8	05/76	4.7	05/79	
			CLO4	NA	NA	NA	NA	
125W-2	MUNICIPAL	INACTIVE	VOCS	ND	03/83	ND	07/95	
			NITRATE (N)	11.3	08/87	9.2	03/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	05/88	ND	08/94	
126W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	4.1	05/75	4.1	05/75	
			CLO4	NA	NA	NA	NA	
126W-2	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	08/00	
			NITRATE (N)	8.8	07/91	7.9	03/01	
			CLO4	4.8	07/97	ND	01/98	
			AS	1.3	07/96	ND	08/00	
131W-1	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	
			PCE	227.0	04/80	52.0	10/93	
			CTC	2.7	10/93	2.7	10/93	
			1,1-DCE	40.0	10/93	40.0	10/93	
			1,1,1-TCA	5.3	10/93	5.3	10/93	
			NITRATE (N)	14.0	09/81	12.5	10/93	
133W-1	MUNICIPAL	DESTROYED	CLO4	NA	NA	NA	NA	
			TCE	0.5	07/87	ND	08/89	
			CTC	0.5	08/89	0.5	08/89	
			NITRATE (N)	11.1	08/89	10.8	09/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	04/81	ND	08/89	

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WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
134W-1	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	
			PCE	0.1	12/80	ND	10/93	
			1,1-DCE	8.6	10/93	8.6	10/93	
			1,1,1-TCA	13.2	03/83	ND	10/93	
			NITRATE (N)	9.7	06/87	9.2	10/93	
			CLO4	NA	NA	NA	NA	
			AS	ND	03/88	ND	07/89	
135W-1	MUNICIPAL	DESTROYED	TCE	0.8	03/85	0.3	05/85	
			NITRATE (N)	13.3	02/86	10.7	09/86	
			CLO4	NA	NA	NA	NA	
136W-1	MUNICIPAL	DESTROYED	PCE	335.0	03/80	66.0	10/93	
			TCE	53.0	03/80	9.1	10/93	
			CTC	2.4	10/93	2.4	10/93	
			1,1-DCE	15.0	10/93	15.0	10/93	
			NITRATE (N)	10.8	01/77	8.5	10/93	
			CLO4	NA	NA	NA	NA	
			AS	5.0	08/79	5.0	08/79	
139W-1	MUNICIPAL	DESTROYED	TCE	34.8	06/81	ND	01/97	
			PCE	5.0	02/88	ND	01/97	
			CTC	0.8	09/80	ND	07/96	
			NITRATE (N)	22.4	05/94	21.0	07/96	
			CLO4	NA	NA	NA	NA	
			AS	3.6	07/95	2.6	07/96	
139W-2	MUNICIPAL	INACTIVE	TCE	18.7	09/80	ND	05/10	
			PCE	12.1	03/80	ND	05/10	
			CTC	0.8	09/80	ND	05/10	
			NITRATE (N)	23.4	10/08	13.2	05/10	
			CLO4	34.0	10/08	15.0	05/10	
			AS	3.2	07/95	2.6	08/01	
139W-4	MUNICIPAL	STANDBY	TCE	4.7	04/97	ND	11/11	
			NITRATE (N)	12.0	12/15	12.0	12/17	
			CLO4	13.0	12/17	13.0	12/17	
			AS	1.5	07/96	ND	12/14	
			CR6	4.1	11/00	3.5	12/14	
139W-5	MUNICIPAL	INACTIVE	TCE	19.0	08/01	19.0	08/01	
			PCE	10.8	05/99	0.7	08/01	
			CTC	1.0	08/01	1.0	08/01	
			1,2-DCA	1.0	02/00	ND	08/01	
			NITRATE (N)	8.2	06/01	8.2	10/09	
			CLO4	12.0	09/97	12.0	10/09	
			AS	1.6	07/96	ND	08/01	
139W-6	MUNICIPAL	INACTIVE	TCE	51.2	02/01	ND	05/10	
			PCE	2.8	02/01	ND	05/10	
			CTC	1.9	02/01	ND	05/10	
			1,2-DCA	1.6	02/01	ND	05/10	
			NITRATE (N)	9.7	10/08	8.2	05/10	
			CLO4	35.4	11/00	2.0	05/10	
			AS	2.7	05/96	ND	05/99	
140W-1	MUNICIPAL	DESTROYED	TCE	1.0	01/80	1.0	01/80	
			NITRATE (N)	19.6	04/73	15.4	05/75	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/02	ND	01/02	
140W-3	MUNICIPAL	STANDBY	TCE	13.6	03/80	ND	12/11	VULNERABLE (VOC,NO3(N),CLO4)
			PCE	1.0	06/88	ND	12/11	
			CTC	1.0	09/81	ND	12/11	
			1,1-DCE	1.1	10/09	ND	12/11	
			NITRATE (N)	17.6	03/85	12.0	12/17	
			CLO4	16.0	12/05	6.6	12/17	
			AS	4.0	08/76	2.5	12/14	
CR6	12.7	06/01	8.7	12/14				
140W-4	MUNICIPAL	INACTIVE	TCE	7.0	01/96	1.5	11/06	
			NITRATE (N)	8.2	10/03	8.2	12/04	
			CLO4	12.6	10/03	11.6	12/04	

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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
140W-5	MUNICIPAL	ACTIVE	AS	2.4	07/95	ND	12/04	VULNERABLE (NO3(N),VOC,CLO4)
			TCE	21.0	02/91	ND	05/18	
			PCE	1.0	06/07	ND	05/18	
			NITRATE (N)	8.1	02/14	5.1	05/18	
			CLO4	15.0	10/12	ND	05/18	
			AS	1.9	07/96	ND	11/15	
142W-1	MUNICIPAL	DESTROYED	CR6	9.8	02/05	6.8	04/13	
			VOCS	ND	02/80	ND	07/82	
			NITRATE (N)	16.7	06/81	16.7	06/81	
142W-2	MUNICIPAL	ACTIVE	CLO4	NA	NA	NA	NA	VULNERABLE (CLO4)
			VOCS	ND	03/04	ND	05/18	
			NITRATE (N)	3.7	05/18	3.7	05/18	
142W-2	MUNICIPAL	ACTIVE	CLO4	4.1	01/17	ND	05/18	
			AS	1.6	07/04	ND	07/15	
			CR6	12.0	02/05	6.8	04/13	
147W-1	MUNICIPAL	DESTROYED	TCE	23.0	03/85	23.0	03/85	
			PCE	1.2	03/85	1.2	03/85	
			NITRATE (N)	22.6	03/85	22.6	03/85	
			CLO4	NA	NA	NA	NA	
147W-2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	12.2	09/74	12.2	09/74	
			CLO4	NA	NA	NA	NA	
147W-3	MUNICIPAL	DESTROYED	TCE	4.1	01/92	2.7	11/16	VULNERABLE (VOC)
			PCE	4.4	04/89	1.9	11/16	
			1,1-DCE	8.9	01/89	3.6	11/16	
			1,1-DCA	4.8	05/89	ND	11/16	
			NITRATE (N)	4.5	09/88	2.0	11/16	
			CLO4	3.0	04/10	ND	11/16	
			AS	1.8	07/04	ND	08/14	
			CR6	13.0	04/05	11.0	11/16	
148W-1	MUNICIPAL	DESTROYED	TCE	0.8	06/80	ND	04/97	
			NITRATE (N)	10.6	02/76	7.9	04/97	
			CLO4	NA	NA	NA	NA	
			AS	26.0	06/78	26.0	06/78	
149W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
150W-1	MUNICIPAL	DESTROYED	TCE	6.0	09/81	ND	08/93	
			NITRATE (N)	12.0	03/86	3.0	08/94	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/89	ND	08/94	
151W-1	MUNICIPAL	DESTROYED	VOCS	ND	01/80	ND	03/98	
			NITRATE (N)	26.2	03/98	26.2	03/98	
			CLO4	21.6	03/98	21.6	03/98	
			AS	7.0	08/79	7.0	08/79	
151W-2	MUNICIPAL	ACTIVE	VOCS	7.0	08/79	7.0	08/79	VULNERABLE (VOC,CLO4)
			TCE	3.8	05/18	3.8	05/18	
			NITRATE (N)	2.4	05/18	2.4	05/18	
			CLO4	5.5	01/17	ND	05/18	
			AS	1.3	12/06	ND	02/16	
152W-1	MUNICIPAL	DESTROYED	CR6	12.0	04/05	8.1	04/13	
			TCE	12.8	11/82	8.0	03/85	
			PCE	0.8	11/82	0.3	03/85	
			NITRATE (N)	9.8	05/86	9.8	05/86	
153W-1	MUNICIPAL	INACTIVE	CLO4	NA	NA	NA	NA	
			VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
154W-1	MUNICIPAL	DESTROYED	CLO4	NA	NA	NA	NA	
			VOCS	NA	NA	NA	NA	
			NITRATE (N)	18.3	05/79	18.3	05/79	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
155W-1	MUNICIPAL	INACTIVE	PCE	190.0	11/80	90.0	11/98	
			TCE	50.0	07/81	24.0	11/98	
			CTC	19.0	02/82	ND	11/98	
			1,1-DCE	16.0	03/85	13.0	11/98	
			NITRATE (N)	13.6	11/80	11.2	11/98	
			CLO4	5.4	11/98	5.4	11/98	
			AS	4.0	08/76	ND	03/85	
155W-2	MUNICIPAL	DESTROYED	PCE	190.0	09/93	76.0	11/98	
			TCE	39.0	04/80	22.0	11/98	
			1,1-DCE	21.0	09/93	11.0	11/98	
			1,1-DCA	3.0	09/93	1.4	11/98	
			C-1,2-DCE	16.0	03/85	1.8	11/98	
			NITRATE (N)	11.1	11/98	11.1	11/98	
			CLO4	4.3	11/98	ND	11/98	
157W-1	MUNICIPAL	DESTROYED	TCE	12.2	02/80	ND	03/85	
			NITRATE (N)	13.1	02/86	13.1	02/86	
			CLO4	NA	NA	NA	NA	
201W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
201W-2	MUNICIPAL	DESTROYED	TCE	6.8	04/89	1.7	08/06	
			PCE	3.9	09/88	1.4	08/06	
			1,1-DCE	3.2	08/89	ND	08/06	
			C-1,2-DCE	6.1	02/91	4.3	08/06	
			NITRATE (N)	1.5	08/94	1.4	08/06	
			CLO4	ND	08/97	ND	09/03	
			AS	8.5	08/97	3.0	08/06	
201W-3	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
201W-4	MUNICIPAL	STANDBY	TCE	6.4	09/89	ND	06/14	
			PCE	4.1	09/88	ND	06/14	
			1,1-DCE	2.0	07/88	ND	06/14	
			C-1,2-DCE	5.2	05/97	ND	06/14	
			NITRATE (N)	4.7	11/14	4.7	11/14	
			CLO4	ND	06/97	ND	07/14	
			AS	4.0	08/97	ND	06/14	
CR6	1.9	05/01	ND	11/14				
201W-5	MUNICIPAL	DESTROYED	TCE	6.4	09/89	ND	03/08	
			PCE	3.8	09/89	ND	03/08	
			1,1-DCE	2.9	09/88	ND	03/08	
			C-1,2-DCE	4.9	08/88	ND	03/08	
			NITRATE (N)	2.7	08/94	2.7	08/07	
			CLO4	ND	06/97	ND	06/03	
			AS	8.9	09/89	4.0	09/05	
201W-6	MUNICIPAL	DESTROYED	TCE	3.9	05/88	ND	09/05	
			PCE	3.3	05/88	ND	09/05	
			1,1-DCE	3.2	09/88	ND	09/05	
			C-1,2-DCE	8.7	05/88	ND	09/05	
			NITRATE (N)	4.5	06/85	1.7	05/05	
			CLO4	ND	06/97	ND	06/03	
			AS	9.2	08/95	2.0	09/04	
201W-7	MUNICIPAL	ACTIVE	PCE	0.6	08/08	ND	05/18	
			C-1,2-DCE	0.9	08/08	ND	05/18	
			NITRATE (N)	3.3	08/16	3.3	08/16	
			CLO4	ND	08/08	ND	08/16	
			AS	2.0	08/08	ND	08/14	
			CR6	0.8	04/13	0.8	04/13	
201W-8	MUNICIPAL	ACTIVE	TCE	0.5	05/07	ND	05/18	
			C-1,2-DCE	1.1	05/07	ND	05/18	
			NITRATE (N)	3.6	08/16	ND	08/18	
			CLO4	2.1	07/06	ND	08/16	
			AS	2.7	08/09	ND	08/15	



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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
201W-9	MUNICIPAL	ACTIVE	CR6	1.1	05/07	0.9	04/13	
			PCE	0.9	04/12	0.7	05/18	
			NITRATE (N)	4.3	02/15	4.0	02/18	
			CLO4	ND	03/08	ND	08/16	
			AS	1.5	05/07	ND	02/17	
			CR6	0.6	04/13	0.6	04/13	
201W-10	MUNICIPAL	ACTIVE	TCE	1.4	09/07	ND	05/18	
			PCE	1.3	09/07	ND	05/18	
			C-1,2-DCE	3.0	09/07	ND	05/18	
			NITRATE (N)	1.8	05/17	0.7	05/18	
			CLO4	ND	09/07	ND	05/18	
			AS	2.1	09/07	ND	05/18	
			CR6	0.3	09/07	ND	05/18	
202W-1	MUNICIPAL	DESTROYED	TCE	4.3	09/81	ND	01/89	
			PCE	15.0	10/88	12.1	01/89	
			NITRATE (N)	5.4	07/87	5.2	10/88	
			CLO4	NA	NA	NA	NA	
			AS	ND	09/88	ND	09/88	
SUNNY SLOPE WATER COMPANY								
08	MUNICIPAL	ACTIVE	VOCS	ND	01/87	ND	09/17	VULNERABLE (NO3(N))
			NITRATE (N)	6.1	08/16	6.1	09/17	
			CLO4	ND	07/97	ND	09/17	
			AS	ND	09/89	ND	09/17	
			CR6	7.1	12/00	5.4	09/17	
09	MUNICIPAL	ACTIVE	VOCS	ND	01/85	ND	03/18	VULNERABLE (NO3(N))
			NITRATE (N)	8.1	06/03	3.7	05/17	
			CLO4	ND	07/97	ND	09/17	
			AS	3.6	08/96	ND	09/15	
			CR6	7.0	03/17	7.0	03/17	
10	MUNICIPAL	INACTIVE	VOCS	ND	01/85	ND	08/96	
			NITRATE (N)	14.4	12/94	11.5	08/96	
			CLO4	NA	NA	NA	NA	
			AS	0.7	08/96	0.7	08/96	
13	MUNICIPAL	ACTIVE	VOCS	ND	08/96	ND	06/17	
			NITRATE (N)	1.6	09/09	1.3	05/18	
			CLO4	ND	07/97	ND	06/17	
			AS	3.2	06/15	3.2	06/15	
			CR6	13.0	03/17	11.0	03/18	
TAYLOR HERB GARDEN								
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
TEXACO INC.								
14	INDUSTRIAL	DESTROYED	PCE	40.0	07/01	2.8	09/03	
			TCE	5.0	05/85	ND	09/03	
			1,2-DCA	0.6	01/96	ND	09/03	
			NITRATE (N)	7.5	07/01	1.4	09/03	
			CLO4	ND	09/97	ND	09/97	
THOMPSON, EARL W.								
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
TOMOVICH (NICK) & SON								
NA	DOMESTIC	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		

**TYLER NURSERY**

NA	IRRIGATION	INACTIVE	TCE	12.9	12/99	1.2	09/04	
			PCE	44.6	12/99	1.2	09/04	
			1,1-DCE	0.6	09/02	ND	09/04	
			1,1-DCA	0.9	09/02	ND	09/04	
			C-1,2-DCE	8.7	09/02	ND	09/04	
			NITRATE (N)	7.0	09/02	ND	09/04	
			CLO4	NA	NA	NA	NA	

**UNITED CONCRETE PIPE CORPORATION**

NA	INDUSTRIAL	DESTROYED	VOCS	ND	08/89	ND	10/08	
			NITRATE (N)	1.0	08/89	1.0	08/89	
			CLO4	NA	NA	NA	NA	

**UNITED ROCK PRODUCTS CORPORATION**

IRW-1	INDUSTRIAL	ACTIVE	VOCS	ND	08/89	ND	10/17	
			NITRATE (N)	1.4	07/96	0.7	10/17	
			CLO4	ND	02/98	ND	02/98	
			AS	ND	04/98	ND	04/98	
IRW-2	INDUSTRIAL	ACTIVE	VOCS	ND	07/96	ND	10/17	
			NITRATE (N)	1.0	10/04	0.7	10/17	
			CLO4	ND	02/98	ND	02/98	
SIERRA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

**VALENCIA HEIGHTS WATER COMPANY**

01	MUNICIPAL	INACTIVE	VOCS	ND	06/89	ND	07/09	
			NITRATE (N)	10.5	04/99	7.4	07/07	
			CLO4	8.5	08/00	ND	07/09	
			AS	0.7	08/96	ND	07/07	
02	MUNICIPAL	INACTIVE	TCE	0.2	01/80	ND	07/08	
			NITRATE (N)	12.1	07/97	6.1	07/06	
			CLO4	8.0	10/98	4.2	07/08	
			AS	0.9	08/96	ND	07/06	
03A	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	03/92	
			NITRATE (N)	7.9	09/89	2.7	08/92	
			CLO4	NA	NA	NA	NA	
04	MUNICIPAL	INACTIVE	PCE	1.0	09/99	ND	09/01	
			NITRATE (N)	20.3	11/97	17.6	03/02	
			CLO4	32.6	11/00	28.0	03/02	
			AS	2.2	07/00	ND	08/00	
			CR6	5.0	11/00	5.0	11/00	
05	MUNICIPAL	ACTIVE	VOCS	ND	06/90	ND	04/17	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	9.5	08/12	5.4	08/17	
			CLO4	7.2	11/00	ND	03/18	
			AS	0.9	08/96	ND	01/17	
			CR6	1.7	08/13	1.3	01/17	
6	MUNICIPAL	ACTIVE	VOCS	ND	12/02	ND	07/17	VULNERABLE (CLO4,NO3(N))
			NITRATE (N)	11.1	06/04	11.0	10/17	
			CLO4	8.9	01/07	5.1	04/18	
			AS	ND	12/02	ND	10/17	
			CR6	8.0	12/02	3.4	10/17	
07	MUNICIPAL	ACTIVE	VOCS	ND	05/08	ND	07/17	VULNERABLE (NO3(N),CLO4)
			NITRATE (N)	7.6	05/18	7.6	05/18	
			CLO4	5.4	10/12	ND	04/18	
			AS	ND	12/09	ND	10/15	
			CR6	1.2	08/13	1.2	08/13	

**VALLEY COUNTY WATER DISTRICT**

**APPENDIX C**  
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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
ARROW	MUNICIPAL	INACTIVE	TCE	700.0	07/82	600.0	12/96	
			PCE	980.0	12/96	980.0	12/96	
			1,1-DCE	64.0	12/96	64.0	12/96	
			C-1,2-DCE	59.0	12/96	59.0	12/96	
			CTC	14.5	09/92	8.0	12/96	
			1,2-DCA	9.0	02/92	7.3	12/96	
			1,1,1-TCA	45.0	12/96	45.0	12/96	
			1,1-DCA	2.9	02/95	2.7	12/96	
			NITRATE (N)	6.0	08/96	6.0	08/96	
			CLO4	NA	NA	NA	NA	
AS	1.5	08/96	1.5	08/96				
B DALTON	MUNICIPAL	INACTIVE	TCE	137.0	04/85	ND	05/11	
			PCE	8.0	04/85	ND	05/11	
			1,1-DCA	0.9	05/96	ND	05/11	
			C-1,2-DCE	2.0	11/95	ND	05/11	
			CTC	9.9	04/85	ND	05/11	
			1,2-DCA	11.0	12/98	ND	05/11	
			NITRATE (N)	16.3	10/09	16.3	05/11	
			CLO4	99.1	12/98	11.0	05/11	
			AS	5.0	11/95	2.7	09/07	
E NIXON (E JOAN)	MUNICIPAL	ACTIVE	TCE	7.0	11/08	ND	02/18	VULNERABLE (VOC)
			PCE	11.0	10/04	ND	02/18	
			1,1-DCE	1.3	10/04	ND	02/18	
			C-1,2-DCE	1.7	10/04	ND	02/18	
			NITRATE (N)	3.1	02/05	0.8	02/18	
			CLO4	ND	05/97	ND	06/17	
			AS	3.0	08/06	2.0	06/16	
			CR6	1.0	05/01	ND	06/16	
E MAINE	MUNICIPAL	ACTIVE	TCE	36.0	10/04	ND	05/18	VULNERABLE (VOC,CLO4)
			PCE	110.0	10/04	1.0	05/18	
			1,1-DCE	10.1	02/91	ND	05/18	
			1,2-DCA	1.4	10/04	ND	05/18	
			1,1,1-TCA	9.1	02/91	ND	05/18	
			C-1,2-DCE	13.0	06/03	ND	05/18	
			NITRATE (N)	4.7	02/11	1.8	02/18	
			CLO4	7.8	10/04	ND	08/17	
			AS	4.4	08/89	2.0	08/17	
CR6	1.0	05/01	ND	08/17				
LANTE (SA1-3)	MUNICIPAL	ACTIVE	TCE	1315.0	04/98	27.0	05/18	VULNERABLE (NO3(N),VOC,CLO4)
			PCE	1200.0	11/96	66.0	05/18	
			1,1-DCE	110.0	11/96	5.9	05/18	
			C-1,2-DCE	90.0	11/96	1.3	05/18	
			T-1,2-DCE	110.0	04/85	ND	05/18	
			1,1-DCA	18.0	08/04	ND	05/18	
			1,2-DCA	12.5	01/92	ND	05/18	
			CTC	17.6	01/92	ND	05/18	
			1,1,1-TCA	170.0	04/85	ND	05/18	
			NITRATE (N)	10.2	05/15	8.9	05/18	
			CLO4	94.0	04/98	7.5	05/17	
			AS	2.4	01/05	ND	05/18	
			CR6	18.0	01/05	<2	05/18	
MORADA	MUNICIPAL	INACTIVE	TCE	770.0	03/80	ND	05/11	
			PCE	100.0	02/85	2.2	05/11	
			CTC	29.0	04/84	ND	05/11	
			1,1-DCE	2.5	04/88	ND	05/11	
			1,1-DCA	8.5	02/85	ND	05/11	
			1,2-DCA	0.7	04/88	ND	05/11	
			C-1,2-DCE	8.1	08/95	ND	05/11	
			NITRATE (N)	25.0	11/90	19.3	05/11	
			CLO4	21.0	02/04	11.0	05/11	
AS	3.6	08/95	3.6	08/95				
PADDY LN	MUNICIPAL	INACTIVE	TCE	166.0	04/94	29.0	05/11	
			PCE	42.0	11/93	3.5	05/11	
			CTC	15.0	12/87	1.0	05/11	
			1,1-DCE	17.2	11/93	1.6	05/11	
			C-1,2-DCE	23.8	11/93	1.9	05/11	
			1,2-DCA	6.6	02/04	2.6	05/11	
			NITRATE (N)	14.2	05/10	8.9	05/11	

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**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
PALM	MUNICIPAL	INACTIVE	CLO4	154.0	02/98	38.0	05/11	
			AS	ND	06/80	ND	11/94	
			CTC	48.0	07/82	0.8	02/04	
			TCE	56.0	02/04	56.0	02/04	
			PCE	51.0	02/04	51.0	02/04	
			C-1,2-DCE	7.1	02/04	7.1	02/04	
			1,1,1-TCA	1.8	02/04	1.8	02/04	
			NITRATE (N)	2.5	12/94	2.3	02/04	
			CLO4	5.6	02/04	5.6	02/04	
			AS	ND	10/87	ND	11/92	
W NIXON (W JOAN)	MUNICIPAL	ACTIVE	TCE	4.0	11/04	0.5	05/18	VULNERABLE (VOC)
			PCE	8.0	11/04	1.3	05/18	
			NITRATE (N)	1.9	08/13	1.0	05/18	
			CLO4	ND	05/97	ND	08/17	
			AS	3.1	08/95	ND	08/16	
			CR6	1.0	05/01	ND	08/16	
W MAINE	MUNICIPAL	ACTIVE	TCE	47.3	02/91	0.8	05/18	VULNERABLE (VOC,CLO4)
			PCE	70.0	02/03	2.2	05/18	
			1,1-DCE	14.2	02/91	ND	05/18	
			1,2-DCA	0.8	08/04	ND	05/18	
			1,1,1-TCA	10.6	02/91	ND	05/18	
			C-1,2-DCE	9.0	02/03	ND	05/18	
			NITRATE (N)	4.7	05/90	1.1	05/18	
			CLO4	6.3	10/04	ND	08/17	
			AS	2.6	07/96	2.0	08/17	
			CR6	1.0	05/01	ND	08/17	
SA1-1	MUNICIPAL	ACTIVE	TCE	34.0	07/05	1.8	05/18	VULNERABLE (VOC,CLO4,NO3(N))
			PCE	47.0	04/07	1.6	05/18	
			1,1-DCA	11.0	07/05	ND	05/18	
			1,1-DCE	110.0	07/05	1.6	05/18	
			1,2-DCA	1.0	07/05	ND	05/18	
			C-1,2-DCE	4.1	07/05	ND	05/18	
			1,1,1-TCA	6.0	05/06	ND	05/18	
			FREON 11	5.8	02/12	ND	05/18	
			NITRATE (N)	19.7	01/05	20.0	05/18	
			CLO4	17.0	01/05	6.0	05/17	
			AS	1.3	06/03	ND	05/18	
			CR6	2.4	03/06	1.7	05/18	
SA1-2	MUNICIPAL	STANDBY	TCE	25.0	04/06	2.0	12/09	
			PCE	37.0	05/06	4.8	12/09	
			1,1-DCA	8.7	07/05	ND	12/09	
			1,1-DCE	62.0	04/06	1.2	12/09	
			1,2-DCA	1.0	07/05	ND	12/09	
			C-1,2-DCE	6.2	07/05	ND	12/09	
			1,1,1-TCA	2.2	05/06	ND	12/09	
			NITRATE (N)	16.3	03/05	16.3	05/12	
			CLO4	15.0	03/05	11.0	12/09	
			AS	2.0	03/06	ND	02/09	
CR6	2.6	03/06	2.0	09/07				
VALLEY VIEW MUTUAL WATER COMPANY								
01	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	09/10	
			NITRATE (N)	1.4	09/09	1.3	09/10	
			CLO4	ND	08/97	ND	09/10	
			AS	3.0	09/07	ND	09/10	
			CR6	1.0	11/00	1.0	05/01	
02	MUNICIPAL	ACTIVE	PCE	2.1	09/16	ND	03/18	
			TCE	0.7	09/16	ND	03/18	
			NITRATE (N)	1.8	09/15	1.3	09/17	
			CLO4	ND	08/97	ND	09/17	
			AS	2.0	09/96	2.0	09/16	
			CR6	2.5	05/01	ND	09/16	
03	MUNICIPAL	INACTIVE	TCE	1.3	01/80	ND	03/98	
			NITRATE (N)	6.1	03/98	6.1	03/98	
			CLO4	18.6	03/98	18.6	03/98	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
VIA TRUST								
01	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
VULCAN MATERIALS COMPANY (CALMAT COMPANY)								
DUR E	INDUSTRIAL	DESTROYED	TCE	32.0	11/04	ND	10/10	
			PCE	27.0	11/04	0.9	10/10	
			1,1-DCE	5.3	11/04	ND	10/10	
			C-1,2-DCE	2.8	11/04	ND	10/10	
			1,1,1-TCA	0.7	11/04	ND	10/10	
			NITRATE (N)	3.7	10/04	1.6	10/10	
			CLO4	ND	04/98	ND	10/08	
			AS	ND	04/98	ND	04/98	
DUR W	INDUSTRIAL	DESTROYED	PCE	0.8	02/07	ND	10/09	
			NITRATE (N)	3.6	07/01	3.2	10/09	
			CLO4	4.0	05/98	4.0	05/98	
			AS	2.9	05/98	2.9	05/98	
REL 1	INDUSTRIAL	ACTIVE	VOCS	ND	05/94	ND	10/17	
			NITRATE (N)	1.5	09/02	0.9	10/17	
			CLO4	ND	05/98	ND	05/98	
			AS	4.8	05/94	3.5	07/94	
WADE, RICHARD I.								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
WEST COVINA VENTURE LIMITED								
NA	NA	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
WHITTIER, CITY OF								
09	MUNICIPAL	DESTROYED	TCE	1.4	04/85	ND	08/89	
			PCE	1.9	10/88	0.6	08/89	
			NITRATE (N)	2.0	08/89	2.0	08/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/74	ND	08/89	
10	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NITRATE (N)	1.5	01/74	1.5	01/74	
			CLO4	NA	NA	NA	NA	
11	MUNICIPAL	DESTROYED	VOCS	ND	06/87	ND	11/90	
			NITRATE (N)	2.3	01/90	2.3	01/90	
			CLO4	NA	NA	NA	NA	
			AS	ND	04/80	ND	08/89	
12	MUNICIPAL	INACTIVE	TCE	1.5	07/88	1.5	07/88	
			PCE	0.7	07/88	0.7	07/88	
			NITRATE (N)	2.3	12/84	1.9	12/85	
			CLO4	NA	NA	NA	NA	
13	MUNICIPAL	ACTIVE	PCE	4.9	11/87	ND	12/17	VULNERABLE (VOC)
			TCE	1.1	06/87	ND	12/17	
			MTBE	6.4	03/02	ND	12/17	
			NITRATE (N)	3.8	03/11	2.8	03/18	
			CLO4	ND	08/97	ND	12/17	
			AS	4.1	03/02	ND	03/17	
15	MUNICIPAL	ACTIVE	CR6	1.0	05/01	ND	03/17	VULNERABLE (VOC)
			PCE	9.4	03/03	1.7	12/17	
			TCE	0.7	09/04	ND	12/17	
			C-1,2-DCE	2.5	12/93	ND	12/17	
			NITRATE (N)	2.9	08/89	1.8	09/17	
			CLO4	ND	08/97	ND	09/17	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
16	MUNICIPAL	ACTIVE	AS	3.5	03/02	ND	09/16	VULNERABLE (VOC)
			CR6	2.2	10/00	ND	09/16	
			PCE	3.4	12/02	1.0	03/18	
			TCE	1.4	01/97	ND	03/18	
			C-1,2-DCE	2.5	10/96	ND	03/18	
			NITRATE (N)	3.0	03/16	2.9	03/18	
			CLO4	ND	08/97	ND	09/17	
			AS	5.8	03/02	ND	03/17	
17	MUNICIPAL	ACTIVE	CR6	2.5	05/01	ND	03/17	VULNERABLE (VOC)
			PCE	12.0	12/02	9.7	03/18	
			TCE	2.2	05/92	0.8	03/18	
			C-1,2-DCE	1.2	04/95	ND	03/18	
			NITRATE (N)	2.9	03/03	2.4	03/18	
			CLO4	ND	08/97	ND	09/17	
			AS	3.4	03/02	ND	03/16	
			CR6	1.6	10/00	ND	03/16	
18	MUNICIPAL	ACTIVE	PCE	9.2	09/08	4.5	03/18	
			TCE	2.4	11/95	ND	03/18	
			C-1,2-DCE	0.7	10/96	ND	03/18	
			NITRATE (N)	3.4	03/17	3.1	03/18	
			CLO4	ND	08/97	ND	09/17	
			AS	4.1	03/02	ND	03/18	
			CR6	1.0	10/00	ND	03/18	
			WILMOTT, ERMA M.					
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
WOODLAND, RICHARD								
01	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)								
04	IRRIGATION	INACTIVE	PCE	5.3	08/87	ND	10/09	
			TCE	11.0	04/85	ND	10/09	
			1,1-DCE	14.0	04/85	ND	10/09	
			1,1,1-TCA	3.3	04/85	ND	10/09	
			NITRATE (N)	11.9	02/07	9.7	10/10	
			CLO4	ND	06/98	ND	06/98	
01	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
			NITRATE (N)	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	IRRIGATION	INACTIVE	PCE	8.6	04/85	ND	10/04	
			TCE	11.0	04/85	ND	10/04	
			NITRATE (N)	20.6	10/04	20.6	10/04	
			CLO4	ND	06/98	ND	06/98	
01	IRRIGATION	INACTIVE	TCE	6.1	04/87	ND	10/10	
			PCE	6.4	11/87	1.1	10/10	
			1,2-DCA	0.8	01/96	ND	10/10	
			1,1-DCE	1.0	04/87	ND	10/10	
			C-1,2-DCE	2.6	05/85	ND	10/10	
			NITRATE (N)	10.2	02/98	7.0	10/10	
			CLO4	ND	02/98	ND	02/98	
			AS	3.0	06/95	2.1	06/96	
03	IRRIGATION	INACTIVE	TCE	21.0	05/85	ND	09/05	
			PCE	7.4	05/85	ND	09/05	
			1,1-DCE	2.7	05/85	ND	09/05	
			C-1,2-DCE	28.0	05/85	ND	09/05	

**APPENDIX C**  
**HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS**  
**AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2018)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NITRATE IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			1,1-DCA	1.1	05/85	ND	09/05	
			1,1,1-TCA	7.5	05/85	ND	09/05	
			NITRATE (N)	10.5	08/00	5.8	09/05	
			CLO4	ND	02/98	ND	02/98	

NOTES	CONTAMINANT	MAXIMUM CONTAMINANT LEVEL	REPORTING LIMIT	REMARKS
	1,1-Dichloroethane (1,1-DCA)	5 micrograms per liter (ug/L)	0.5 ug/L	(1) Existing VOC treatment
	1,1-Dichloroethylene (1,1-DCE)	6 ug/L	0.5 ug/L	(2) VOC treatment under construction
	1,1,1-Trichloroethane (1,1,1-TCA)	200 ug/L	0.5 ug/L	(3) VOC treatment proposed
	1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	1 ug/L	0.5 ug/L	(4) Existing CLO4 treatment
	1,2-Dichloroethane (1,2-DCA)	0.5 ug/L	0.5 ug/L	(5) CLO4 treatment proposed
	Arsenic (AS)	10 ug/L	2.0 ug/L	
	Perchlorate (CLO4)	6 ug/L	4.0 ug/L	NA Not Available
	Carbon Tetrachloride (CTC)	0.5 ug/L	0.5 ug/L	ND Not Detected above Reporting Limit
	Cis-1,2-Dichloroethylene (c-1,2-DCE)	6 ug/L	0.5 ug/L	NL Notification Level
	Hexavalent Chromium (CR6)	10 ug/L	1.0 ug/L	VOCS Volatile Organic Compounds
	Trichlorofluoromethane (Freon 11)	150 ug/L	5.0 ug/L	
	Trichlorotrifluoroethane (Freon 113)	1200 ug/L	10.0 ug/L	
	Methyl Tert-Butyl Ether (MTBE)	13 ug/L	3.0 ug/L	
	Nitrate as Nitrogen (NITRATE [N])	10 mg/L	0.4 mg/L	
	Tetrachloroethylene (PCE)	5 ug/L	0.5 ug/L	
	Trichloroethylene (TCE)	5 ug/L	0.5 ug/L	
	Trans-1,2-Dichloroethylene (t-1,2-DCE)	10 ug/L	0.5 ug/L	
	Vinyl Chloride (VC)	0.5 ug/L	0.5 ug/L	

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## **APPENDIX D.**

### **POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS**





## APPENDIX D

### POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

NAME	RECORD.	USAGE	STATUS	PERF. (1)	FUNCTION	REMARKS
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#### ALHAMBRA, CITY OF

LON 1	1902789	MUNICIPAL	ACTIVE	411-800	MONITORING	
LON 2	1900017	MUNICIPAL	ACTIVE	296-563	PUMPING	

#### AZUSA, CITY OF

NO. 12	8000179	MUNICIPAL	ACTIVE	206-311	PUMPING	
NO. 11	8000178	MUNICIPAL	ACTIVE	200-320	MONITORING	

#### CALIFORNIA AMERICAN WATER COMPANY/DUARTE

B V	1900035	MUNICIPAL	STANDBY	300-580	PUMPING	
B V 2	8000216	MUNICIPAL	ACTIVE	300-700	MONITORING	

#### CALIFORNIA DOMESTIC WATER COMPANY

05A	8000100	MUNICIPAL	ACTIVE	?-920	PUMPING	
06	1902967	MUNICIPAL	ACTIVE	200-800	MONITORING	

#### GLENDORA, CITY OF

05-E	8000149	MUNICIPAL	ACTIVE	150-400	PUMPING	
NA	1903119	INDUSTRIAL	INACTIVE	?-220	MONITORING	OWL ROCK PRODUCTS WELL

#### GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT

COL-4	1902268	MUNICIPAL	ACTIVE	122-190	PUMPING	
COL-6	1902270	MUNICIPAL	INACTIVE	?-414	MONITORING	

#### GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRICT

FAR 1	1902034	MUNICIPAL	ACTIVE	274-455	PUMPING	
FAR 2	1902948	MUNICIPAL	ACTIVE	229-600	MONITORING	
SG 1	1900510	MUNICIPAL	ACTIVE	190-411	MONITORING	
SG 2	1900511	MUNICIPAL	ACTIVE	209-393	PUMPING	

#### RURBAN HOMES MUTUAL WATER COMPANY

NORTH 1	1900120	MUNICIPAL	ACTIVE	140-190	MONITORING	
SOUTH 2	1900121	MUNICIPAL	INACTIVE	125-165	PUMPING	

#### SAN GABRIEL COUNTY WATER DISTRICT

05 BRA	1901669	MUNICIPAL	INACTIVE	450-800	MONITORING	
11	8000067	MUNICIPAL	ACTIVE	350-800	PUMPING	
12	8000123	MUNICIPAL	ACTIVE	470-1320	MONITORING	

#### SAN GABRIEL VALLEY WATER COMPANY

B24A	8000203	MUNICIPAL	ACTIVE	600-1150	PUMPING	
B24B	8000204	MUNICIPAL	ACTIVE	600-1150	MONITORING	

## APPENDIX D

### POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

NAME	RECORD.	USAGE	STATUS	PERF. (1)	FUNCTION	REMARKS
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#### SUBURBAN WATER SYSTEMS

201W-9	8000208	MUNICIPAL	ACTIVE	260-650	PUMPING	
201W-7	8000195	MUNICIPAL	ACTIVE	200-650	MONITORING	
201W-8	8000198	MUNICIPAL	ACTIVE	200-650	MONITORING	
201W-10	8000210	MUNICIPAL	ACTIVE	NA	MONITORING	

#### VALLEY COUNTY WATER DISTRICT

E NIXON (JOANBRIDGE)	1900032	MUNICIPAL	ACTIVE	300-586	MONITORING	ALTERNATE FOR MAINE SITE
W NIXON (JOANBRIDGE)	1902356	MUNICIPAL	ACTIVE	300-584	PUMPING	
E MAINE	1900027	MUNICIPAL	ACTIVE	250-580	PUMPING	ALTERNATE FOR NIXON SITE
W MAINE	1900028	MUNICIPAL	ACTIVE	250-580	MONITORING	

#### VALLEY VIEW MUTUAL WATER COMPANY

01	1900363	MUNICIPAL	ACTIVE	300-585	MONITORING	
02	1900364	MUNICIPAL	ACTIVE	300-535	PUMPING	
03	1900365	MUNICIPAL	INACTIVE	100-200	MONITORING	

#### WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)

01	1900094	IRRIGATION	INACTIVE	137-264	PUMPING	
ROSE HILLS	8000004	MUNICIPAL	INACTIVE	?-200	MONITORING	BEVERLY ACRES MWC

#### NOTES

NA: NOT AVAILABLE

RECORD.: RECORDATION NUMBER

PERF.: PERFORATION INTERVAL

(1) TOP OF THE TOP INTERVAL - BOTTOM OF THE BOTTOM INTERVAL (DEPTH BELOW GROUND SURFACE IN FEET)

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## **APPENDIX E.**

### **SUMMARY OF TREATMENT FACILITY ACTIVITY IN THE MAIN SAN GABRIEL BASIN**



## **Appendix E**

### **Summary of Treatment Facility Activity in the Main San Gabriel Basin**

The summary below of Operable Unit activities provides supplemental detail to the brief information found in the body of the document in the section titled BASIN CLEANUP PROJECTS / USEPA OPERABLE UNIT PLANS.

#### **BALDWIN PARK OPERABLE UNIT (BPOU)**

##### **BPOU BACKGROUND**

The BPOU is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, stretching from an area north of the I-210 Freeway in Azusa to south of the I-10 Freeway in Baldwin Park (see Figure 11). The contamination primarily has been the result of improper use and disposal of industrial chemicals in the Azusa area, and it continues to spread generally in a south-westerly direction.

##### **BPOU CLEANUP PROGRESS**

In 2002, after several years of negotiation led by Watermaster, eight of the BPOU Responsible Parties (called Cooperating Respondents, or CRs) and seven Water Entities signed the BPOU Project Agreement. Under this landmark agreement, Watermaster provided overall project management and project coordination services. The CRs paid the cost to construct, and were required to continue to provide funding to operate, the USEPA-required BPOU cleanup facilities for a total of about 15 years under the original agreement through 2017.

During fiscal year 2016–17, Watermaster, the Water Entities, and the CRs negotiated a ten-year extension of the BPOU Project Agreement (Including amendments) which will run through 2027.

Several water purveyors own and operate the facilities, and they use the highly treated water in their water systems. WQA has also obtained outside funds to help construct necessary BPOU treatment facilities, extraction wells, and pipelines.

##### **BPOU TREATMENT FACILITIES**

The BPOU Project consists of four centralized treatment facilities with a combined extraction and treatment capacity of up to 33,900 gallons per minute (gpm). Those treatment facilities are located at Valley County Water District's Lante Plant (7,800 gpm), San Gabriel Valley Water Company's Plant B6 (7,800 gpm) and Plant B5 (7,800 gpm), California Domestic Water Company's Bassett Plant (8,000 gpm), and La Puente Valley County Water District's site (2,500 gpm).

**Valley County Water District (VCWD) Project.** In the northerly portion of the BPOU, the VCWD Project consists of three extraction wells, including two wells, pumping up to 7,800 gpm (average annual rate of 6,000 gpm) to a centralized treatment facility at the VCWD Lante Plant. The VCWD Project consists of separate facilities to treat VOCs, 1,2,3-TCP, perchlorate, NDMA, and 1,4-dioxane. In addition, a treated-water pipeline provides up to 6,000 gpm of fully treated water to Suburban Water Systems (SWS) to offset production lost due to contamination of some of its wells; VCWD can use the remaining portion of the treated water. The VCWD Project began operation for contamination cleanup in 2006 and received its DDW operating permit in July 2007 to provide potable water to customers. Since operation began in 2006, the VCWD treatment facility has treated about 75,400 acre-feet and has removed about 42,400 pounds of contaminants, as shown in the table at the end of Appendix E.

VCWD and its BPOU partners are coordinating the construction of a new single-pass ion exchange facility that will remove perchlorate more cost effectively. Construction of the new system is complete, but start-up has been pushed back while the parties determine the most cost-effective way to address high nitrate concentrations. Meanwhile, the existing VCWD treatment facility continues to provide treated water for municipal use.

**La Puente Valley County Water District (LPVCWD) Project.** The LPVCWD Project consists of three existing production wells. Well-pumping capacity is limited to 2,500 gpm to equal the capacity of the treatment facility (average annual rate of 2,250 gpm). The LPVCWD Project consists of separate facilities to treat VOCs, perchlorate, NDMA, and 1,4-dioxane. The LPVCWD Project is permitted by DDW and has been operating since March 2001. Treated water in excess of LPVCWD's needs is provided to SWS to enable the treatment facility to be operated on a continuous basis. Since operation began, the LPVCWD treatment facility has treated about 71,700 acre-feet (including prior operations with only VOC treatment) and removed about 12,000 pounds of contaminants, as shown in the table at the end of Appendix E.

**San Gabriel Valley Water Company (SGVWC) B6 Project.** The SGVWC B6 project is permitted by DDW and has been operational since July 2005. The B6 project consists of four extraction wells and a centralized treatment facility that treats up to 7,800 gpm (average annual rate of 6,500 gpm). The facility treats the contaminated groundwater for VOCs, perchlorate, NDMA, and 1,4-dioxane. The treated water is provided to SGVWC customers. Since operation began, the SGVWC B6 treatment facility has treated about 133,000 acre-feet, (including prior operations with only VOC treatment), and removed about 23,900 pounds of contaminants, as shown in the table at the end of Appendix E.

**SGVWC B5 Project.** The SGVWC B5 Project consists of one extraction well and two existing wells that provide up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility located at the SGVWC B5 site. The treatment facility treats the contaminated water for VOCs, perchlorate, NDMA, and 1,4-dioxane. The treated water is provided to City of Industry customers (1,000 gpm) and the balance (6,000 gpm) is provided to SGVWC customers. The SGVWC B5 Project was permitted by DDW in fiscal year 2007–08. Since operation began in 2007, the SGVWC B5 treatment facility has treated about 115,000 acre-feet and has removed about 4,700 pounds of contaminants, as shown in the table at the end of Appendix E.

**California Domestic Water Company (CDWC) Project.** The CDWC Project consists of four existing wells that provide up to 17,500 gpm (average annual rate of 8,000 gpm) to a centralized treatment facility located at the CDWC Bassett site. The treatment facility treats the contaminated water for VOCs, perchlorate, and NDMA. The treated water is provided to CDWC customers. The CDWC Project was permitted by DDW in 1993. Since operation began in 1993, the CDWC treatment facility has treated about 355,700 acre-feet and has removed about 17,400 pounds of contaminants, as shown in the table at the end of Appendix E.

**Purveyor Projects.** In addition to the USEPA-required BPOU facilities, Watermaster has issued permits under Section 28 of its Rules and Regulations to SWS to construct new wells that also are being used to blend with wells impacted by contaminants. These activities reduce reliance on expensive imported water, and contribute to contaminant removal.

## **SOUTH EL MONTE OPERABLE UNIT (SEMOU)**

### **SEMOU BACKGROUND**

The SEMOU covers approximately eight square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway, the 60 Freeway, the I-605 Freeway, and San Gabriel Boulevard (see Figure 11).

### **SEMOU CLEANUP PROGRESS**

A ROD for the SEMOU was issued in 2000, addressing VOC contamination in a limited area. Subsequently, additional water supply wells became contaminated, and new contaminants, including perchlorate, were detected in wells in the SEMOU area.

In November 2005, USEPA revisited its ROD and issued an Explanation of Significant Differences (ESD) indicating that SEMOU cleanup projects would also address treatment of perchlorate. Because a

perchlorate source has not yet been identified in that area, the Responsible Parties objected to a requirement to pay for perchlorate treatment, and negotiations for the Responsible Parties to fund SEMOU groundwater cleanup activities have been moving slowly.

## SEMOU TREATMENT FACILITIES

In the meantime, area water purveyors who were impacted by contaminant migration and new perchlorate detections were forced to construct new or additional treatment facilities to maintain safe, reliable water supplies. The City of Monterey Park, SGVWC, and GSWC have all constructed new or additional treatment facilities within SEMOU. WQA has assisted these Producers by securing outside funding to help offset project costs.

**Monterey Park Project.** Monterey Park constructed a water treatment facility at its Delta Plant to treat VOCs and perchlorate. Monterey Park Well No. 9 (which only had detectable concentrations of VOCs) began operating through the VOC treatment facility in April 2002. Following construction and permitting of the perchlorate treatment facility, Monterey Park Well No. 12 began operation in spring 2005. Monterey Park began operation of Well No. 15 in summer 2006. Production is from Monterey Park Wells No. 12 and No. 15 in order to operate consistent with the SEMOU ROD. Watermaster and Monterey Park maintain data on water quality in monitoring wells located up-gradient of Wells No. 9, 12, and 15. Since the treatment facility began operation, over 78,600 acre-feet of water have been treated and about 13,300 pounds of contaminants removed from the groundwater, as shown in the table at the end of Appendix E.

**SGVWC Plant 8 Project.** SGVWC Plant 8 VOC Treatment Facility has a capacity of 5,000 gpm and has been in operation since fiscal year 2001–02. In response to increasing VOC concentrations, SGVWC voluntarily constructed supplemental VOC treatment at Plant 8. The supplemental VOC treatment facility was permitted by DDW in September 2006 and went online in December 2006. SGVWC plans to construct a 1,4-Dioxane Treatment Facility within the next five years. Since the original VOC treatment facility began operation, over 44,500 acre-feet of water have been treated and about 6,700 pounds of contaminants have been removed from the groundwater, as shown in the table at the end of Appendix E.

**GSWC Project.** GSWC VOC treatment facility at San Gabriel Wells No. 1 and 2 had been permitted and operating. However, with the establishment of the revised Perchlorate NL in 2002, GSWC voluntarily removed the wells from operation. Subsequently, GSWC installed an ion-exchange system to remove perchlorate and has resumed operation at its San Gabriel Well No. 1. The treatment facility has treated about 21,200 acre-feet of water and removed about 600 pounds of contaminants, as shown in the table at the end of Appendix E.

## EL MONTE OPERABLE UNIT (EMOU)

### EMOU BACKGROUND

The EMOU covers an area of about 10 square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway on the south, Rosemead Boulevard on the west, and Santa Anita Avenue and Rio Hondo on the east. The northern boundary generally follows Lower Azusa Road (see Figure 11). While shallow contamination is found throughout the EMOU, deep (intermediate-zone) contamination is found in the northwest and easterly area of the EMOU.

### EMOU CLEANUP PROGRESS

The USEPA's ROD for the EMOU includes numerous small, shallow extraction wells and treatment, along with two areas of deep extraction and treatment. Due to generally poor water quality in the area, the shallow groundwater will not be used for a potable supply. The deep extractions are recommended for potable use by local water purveyors. The remediation efforts are separated into "Westside" and "Eastside" activities.



**EMOU Westside Projects.** On the Westside, there are plans to clean up contaminants occurring in the shallow aquifer. The shallow-zone water is treated for VOCs and discharged to an adjacent channel, and the fully treated water is infiltrated back into the Basin. The treatment facility (Hermetic Seal) has treated about 300 acre-feet and removed about 30 pounds of contaminants, as shown in the table at the end of Appendix E. The deep-zone extraction and treatment in the northwest area is being accomplished by the existing Encinita Wellfield and Treatment Facility owned by GSWC, which began operation during 1998. The GSWC treatment facility has treated about 28,200 acre-feet of water and has removed about 670 pounds of contaminants, as shown in the table at the end of Appendix E. During July 2002, USEPA issued an ESD which indicated that perchlorate, NDMA, 1,4-dioxane, and hexavalent chromium had been detected in excess of DDW notification levels. In the event water from extraction wells cannot be blended to acceptable levels, additional treatment facilities will need to be installed, significantly increasing cleanup costs. Thus far, extraction and treatment of VOCs at GSWC Encinita Plant have not been impacted.

**EMOU Eastside Projects.** On the Eastside, there are plans to clean up contaminants occurring in the shallow aquifer. The shallow-zone water is treated for VOCs and discharged to an adjacent channel, and the fully treated water is infiltrated back into the Basin. The treatment facility (Gould/Johnson Controls) has treated about 100 acre-feet and removed about 20 pounds of contaminants, as shown in the table at the end of Appendix E. The deep-zone extraction and treatment in the northwest area is being accomplished by three new extraction wells which began operation during 2015–16. The treatment facility has treated about 2,000 acre-feet of water and has removed about 90 pounds of contaminants, as shown in the table at the end of Appendix E.

## **PUENTE VALLEY OPERABLE UNIT (PVOU)**

### **PVOU BACKGROUND**

The PVOU lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway on the south, Azusa Avenue on the east, and the I-10 Freeway on the north (see Figure 11). The PVOU encompasses the Puente Valley, which is tributary to the southeasterly portion of the Basin. Contamination in the PVOU includes various VOCs. All aquifers within the PVOU (shallow, intermediate, and deep) are considered sources for municipal water supplies.

### **PVOU CLEANUP PROGRESS**

USEPA has issued a ROD for the PVOU. The plan identified in the ROD includes extraction and treatment of groundwater within the shallow and intermediate zones from wells located in the center of the PVOU.

### **PVOU CURRENT AND UPCOMING ACTIVITIES**

**PVOU Shallow Zone Project.** The cleanup plan for shallow-zone contamination includes nine wells that will collectively produce about 1,000 gpm. Due to the poor quality of shallow-zone water (which is high in naturally-occurring dissolved solids), the water will not be used as drinking water, but will instead be treated to remove VOCs and will then be recharged back into the Basin. Watermaster is currently working with USEPA and the Responsible Party to develop an agreement to allow production and discharge of the PVOU shallow-zone water.

**PVOU Intermediate Zone.** Watermaster is working with USEPA, Responsible Parties, and local water entities to develop a cleanup solution that meets potable water supply needs. Approximately 1,000 gpm will be produced from the intermediate-zone extraction wells, treated, and used for potable purposes by a local water purveyor.

## **WHITTIER NARROWS OPERABLE UNIT (WNOU)**

### **WNOU BACKGROUND**

USEPA declared the WNOU is a “fund-lead” project, meaning that USEPA (with the State) has funded the design, construction, and operation of the remedy, and will seek cost recovery from Responsible Parties later. The USEPA cleanup plan involves a series of shallow- and intermediate-zone extraction wells with treatment (see Figure 11).

### **WNOU CLEANUP PROGRESS**

As of May 2013, the responsibility for the WNOU was transferred from USEPA to the California Department of Toxic Substances Control (DTSC). Furthermore, the WNOU Shallow Zone Project (as described below) ceased operation during 2013 due to improved water quality.

**WNOU Shallow Zone Project.** During fiscal year 2002–03, NDMA was detected in some of the shallow extraction wells, prolonging the testing and review process for the shallow-zone water through June 2007. Studies indicated the shallow-zone contamination could be adequately contained at an extraction rate of 2,500 gpm. Treated shallow-zone water has been discharged for conservation and recreational use at Legg Lake, and Watermaster entered into a production agreement with USEPA and the County of Los Angeles regarding the accounting of that water. Since production began at the WNOU facility, over 30,000 acre-feet of groundwater have been treated, and over 1,620 pounds of contaminants have been removed. During fiscal year 2012–13 the WNOU’s Shallow Zone Project ceased operation.

**WNOU Intermediate Zone Project.** The City of Whittier obtained a DDW permit to use the 6,000 gpm of treated intermediate-zone water for municipal use instead of producing water from its existing wells. During April 2013, the City of Whittier ceased taking treated intermediate-zone water. Subsequently, the treated intermediate-zone water has been delivered to Legg Lake, while DTSC negotiates with a municipal water supplier to accept additional treated intermediate-zone water. Since production began in late 2005, about 52,000 acre-feet of groundwater have been treated and about 1,800 pounds of contaminants removed, as shown in the table at the end of Appendix E.

## **AREA 3 OPERABLE UNIT**

### **AREA 3 BACKGROUND**

The Area 3 Operable Unit is located in the westerly portion of the Basin. It is generally bounded on the south by the I-10 Freeway, on the east by Rosemead Boulevard, on the north by Huntington Drive, and on the west by the boundary of the Main Basin (see Figure 11).

### **AREA 3 CURRENT AND UPCOMING ACTIVITIES**

USEPA has installed a series of monitoring wells to collect water quality data to supplement data collected from water supply wells and has initiated a Remedial Investigation and Feasibility Study to identify the extent of the contamination and to evaluate appropriate cleanup remedies.

In addition, Watermaster issued a permit during 2005–06 to the City of Alhambra to construct a treatment facility to remove VOCs from Wells No. 7, 8, 11, and 12. The treatment facility became operational in April 2009, prior to USEPA’s development of a final remedy, but is necessary for Alhambra to receive a reliable source of supply from the groundwater basin. The facility has treated about 25,700 acre-feet and has removed about 850 pounds of contaminants, as shown in the table at the end of Appendix E.

**APPENDIX E**

**SUMMARY OF TREATMENT FACILITY ACTIVITY  
IN THE MAIN SAN GABRIEL BASIN  
AS OF JUNE 30, 2018**

Operable Unit	Treatment Facility Owner	Treatment Facility(s)	Start Date 1/	Total Water Treated		Total Contaminants Removed	
				Fiscal Year 2017-18 (Acre-feet)	Accum. Total (Acre-feet)	Fiscal Year 2017-18 (Pounds)	Accum. Total (Pounds)
AREA 3							
BPOU	ALHAMBRA, CITY OF	Well No. 7	July 2001	—	7,582.35	—	130.1
		Well No. 7, 8, 11 & 12	April 2009	1,119.00	25,745.80	50.5	856.0
	CALIFORNIA DOMESTIC WATER COMPANY	Well No. 3, Well No. 5A Well No. 6, & Well No. 10	September 1993 April 1997	14,964.34	355,661.10	1,251.6	17,418.2
	LA PUENTE VALLEY COUNTY WATER DISTRICT	Well No. 2, 3 & 4 Well No. 2, 3 & 5 (BPOU)	August 1992 January 2000	— 3,636.69	11,493.13 60,218.53	— 297.6	826.9 11,166.6
	SAN GABRIEL VALLEY WATER COMPANY	Well B6C 5/ Well B6D 5/ Plant B5 (BPOU) Plant B6 (BPOU)	April 1994 April 1994 January 2007 September 2004	— — 9,403.11 10,709.40	5,194.17 14,526.27 114,946.11 112,424.24	— — 400.5 2,174.6	856.2 421.7 4,696.8 22,603.9
	VALLEY COUNTY WATER DISTRICT	Lante Lante, SA1-1 & SA1-2 (BPOU)	June 1984 December 2004	— 4,716.69	7,719.61 75,450.33	— 1,174.4	10,356.7 42,381.2
EMOU							
	ADAMS RANCH MUTUAL WATER COMPANY	Well No. 3 5/	November 2003	—	881.58	—	32.7
	HERMETIC SEAL CORPORATION	Hermetic Seal	May 2012	53.21	354.33	5.4	32.3
	GOULD AND JOHNSON CONTROLS	EMOU (Deep Zone) EMOU (Shallow Zone)	October 2015 October 2015	884.77 34.26	2,049.61 113.40	41.6 5.0	94.8 23.3
	GOLDEN STATE WATER COMPANY (SGV)	Encinita No. 1, 2 & 3	April 1998	1,967.52	28,169.76	48.5	670.1
PVOU	BDP - CARRIER	Carrier	April 1988	53.17	6,771.19	4.8	2,841.8
SEMOU							
	MONTEREY PARK, CITY OF	Well No. 5 Well No. 9 & 12, 15	September 1999 April 2002	524.66 5,429.63	18,241.17 78,552.12	24.6 1,035.3	1,338.7 13,312.9
	SAN GABRIEL VALLEY WATER COMPANY	Well 8B, 8C, 8D & 8E	August 2002	2,967.66	44,511.81	763.5	6,660.4
	GOLDEN STATE WATER COMPANY (SGV)	San Gabriel No.1 & 2	November 2001	1,502.21	21,163.63	38.2	615.3
WNOU							
	EPA	WNOU (Shallow Zone) 5/	December 1999	—	30,065.52	—	1,618.9
	SAN GABRIEL VALLEY WATER COMPANY	WNOU (Intermediate Zone) 2/	December 2005	2,390.96	52,020.09	14.8	1,798.1
PRODUCER FACILITY							
	ARCADIA, CITY OF	Longden 1 & 2	January 1985	23.44	70,242.88	0.1	740.0
	BOZUNG	Well B36, F38, F39 & BC34 3/	October 1994	—	233.00	—	131.3
	EL MONTE, CITY OF	Well No. 12 Well No. 10 5/ Well No. 2A	February 1997 May 2004 July 1999	253.15 — 772.96	16,054.30 6,380.82 10,386.57	45.0 — 10.3	1,082.8 43.4 147.6
	EPA	Richwood (North Well) 4/ Richwood (South Well) 4/	April 1990 April 1990	—	451.98	—	5.8
	GOLDEN STATE WATER COMPANY (SD)	Art 2 & 3, Base 3 & 4, Hwy 1	May 2005	1,119.18	19,482.26	23.2	365.0
	GOLDEN STATE WATER COMPANY (SGV)	Garvey No. 3	June 2016	656.96	1,279.25	5.3	10.6
	HEMLOCK MUTUAL WATER COMPANY	Hemlock (North Well) 5/ Hemlock (South Well) 5/	April 1986 April 1986	—	2,553.65	—	44.6
	MONROVIA, CITY OF	Wells No. 2 & 6 Wells No. 3, 4 & 5	March 1996 October 2007	2,216.86 2,243.28	47,517.36 19,657.39	63.9 23.5	952.9 182.8
	MONTEREY PARK, CITY OF	Well No. 1, 3, 10 & Fern	June 2004	1,499.53	28,625.89	33.3	1,700.6
	SAN GABRIEL VALLEY WATER COMPANY	Well 11B Well B11B Well B7C 6/ Well B4B & B4C Well G4A	March 1991 March 1993 March 1993 January 1999 December 2005	13.65 1,313.29 — — 247.25	44,897.38 48,450.33 46,711.28 24,093.04 4,411.21	0.0 54.9 — — 4.7	319.7 3,235.0 1,824.2 1,233.5 69.9
	SUBURBAN WATER SYSTEMS	Well No. 140W-4 5/	May 2001	—	2,247.59	—	16.2
	VALLEY COUNTY WATER DISTRICT	Maine East & West Nixon East & West	June 1990 January 2004	2,829.86 4,353.34	55,264.09 49,803.29	14.4 17.6	1,819.5 316.9
	WATER QUALITY AUTHORITY	Arrow (Project No. 1) 5/ Big Dalton (Project No. 2) 5/	February 1992 March 1997	— —	7,250.41 1,229.02	— —	17,423.0 82.5
		Whitmore Street	January 2008	14.61	312.69	8.9	179.3
		SEMOU	July 1999	—	3,885.19	—	1,558.5
		TOTAL		77,914.64	1,585,276.72	7,636.0	174,239.1

Footnotes:  
1/ From date of beginning of operation.  
2/ Previously operated by City of Whittier from December 2005 to May 2013.  
3/ Treatment facility has been permanently dismantled.  
4/ Wells destroyed in June 1999.  
5/ Wellfield no longer pumps to treatment facility.  
6/ Well destroyed in October 2016.

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## **APPENDIX F.**

**SIMULATED BASIN GROUNDWATER CONTOURS  
2017-18 AND 2022-23  
(FIGURES 14 AND 15),**

**SIMULATED GROUNDWATER ELEVATION  
CHANGES BETWEEN FY 2017-18 AND  
FY 2022-23 (FIGURE 16),**

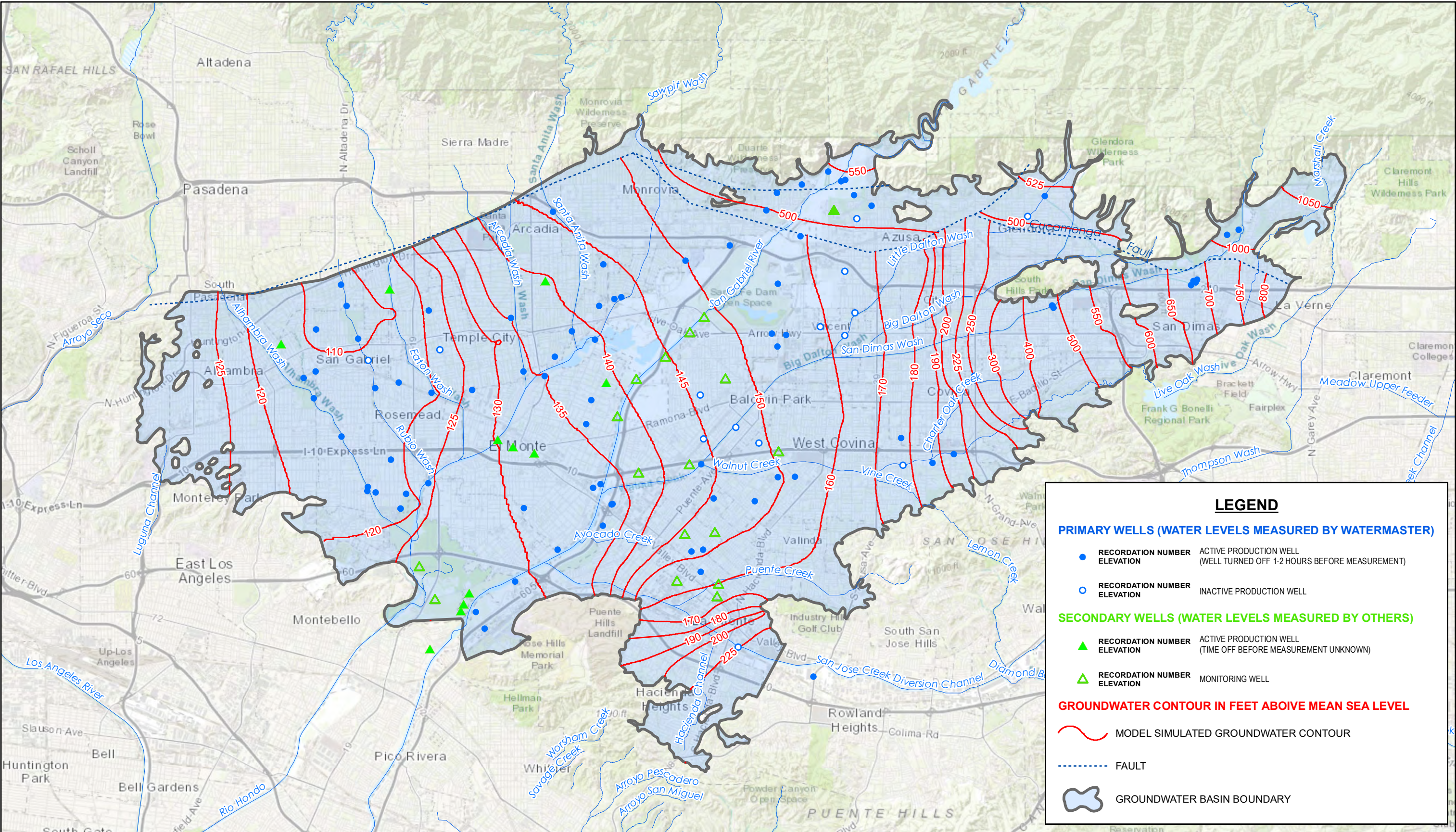
**VOC PLUME MAP IN BPOU AND  
PERCHLORATE PLUME MAP IN BPOU  
(FIGURES 17 AND 18)**













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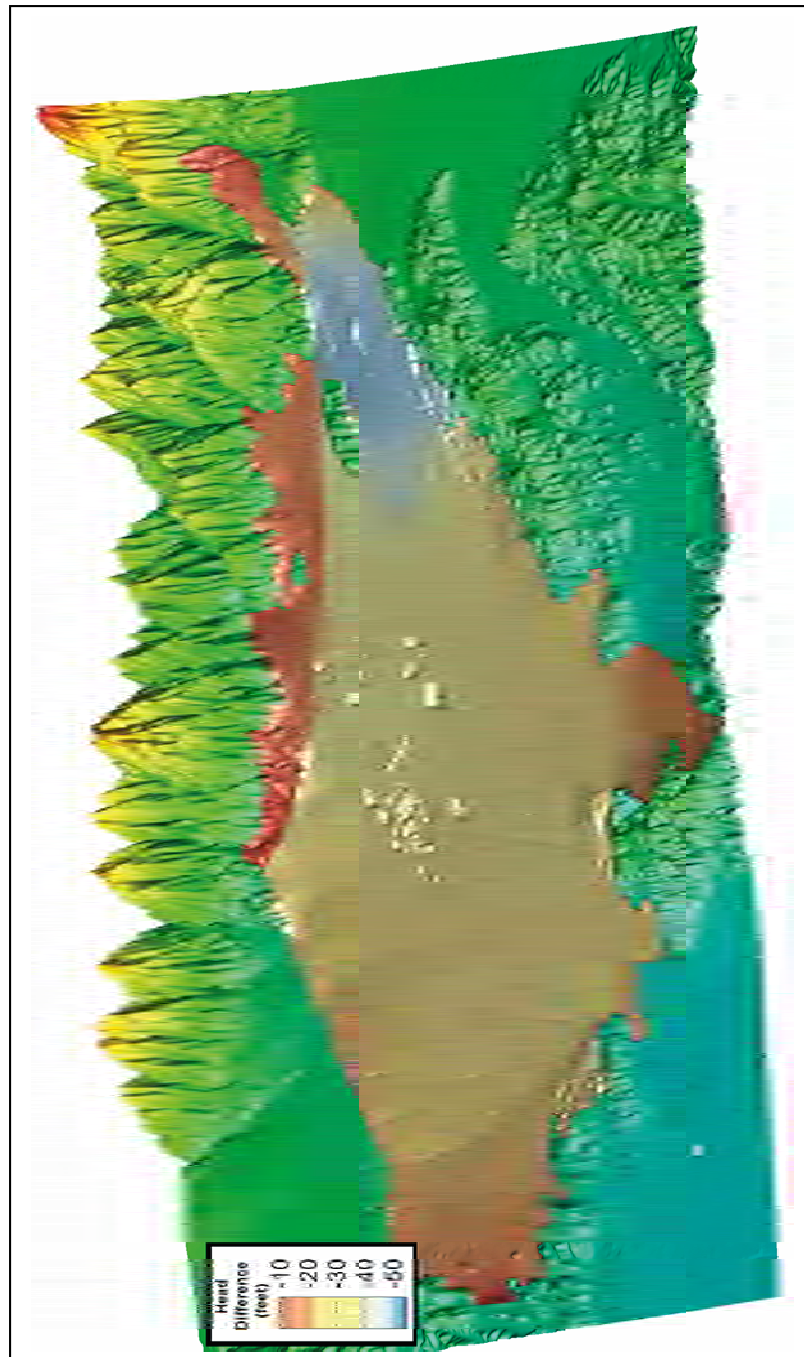
**MAIN SAN GABRIEL BASIN WATERMASTER**

**SIMULATED 2022-23 BASIN GROUNDWATER CONTOURS**  
**(DRY HYDROLOGIC CONDITIONS WITH WATER RESOURCE DEVELOPMENT ASSESSMENT)**



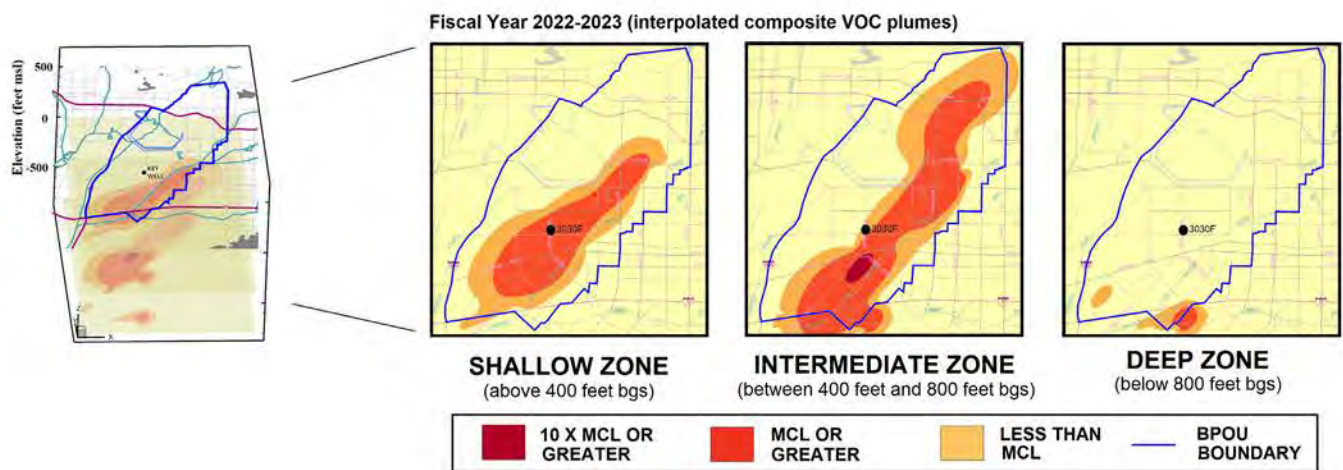
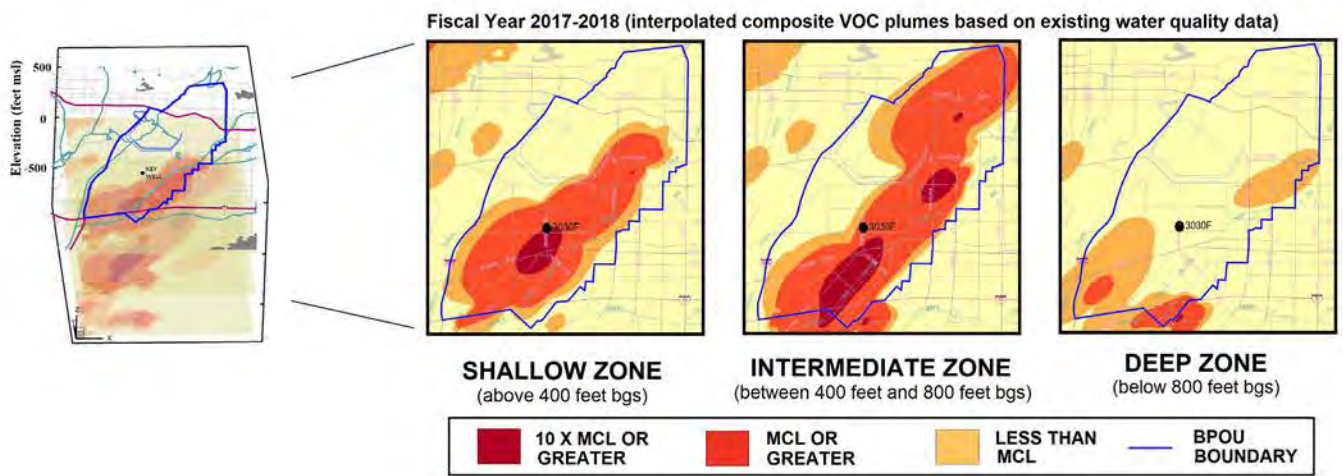
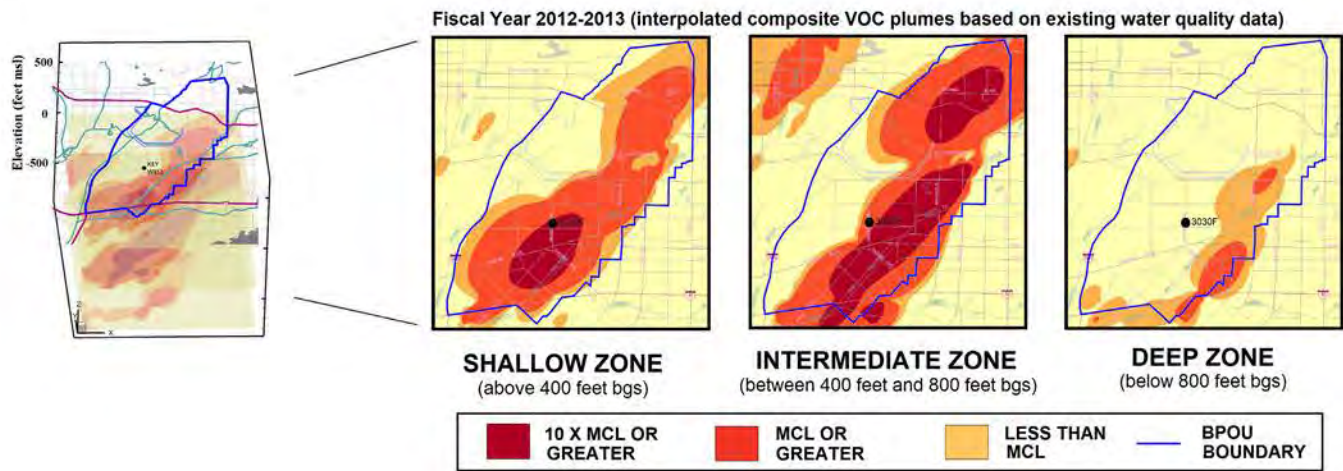


**Simulated Ground Water Elevation Changes  
Between FY 2017–18 and FY 2022–23**



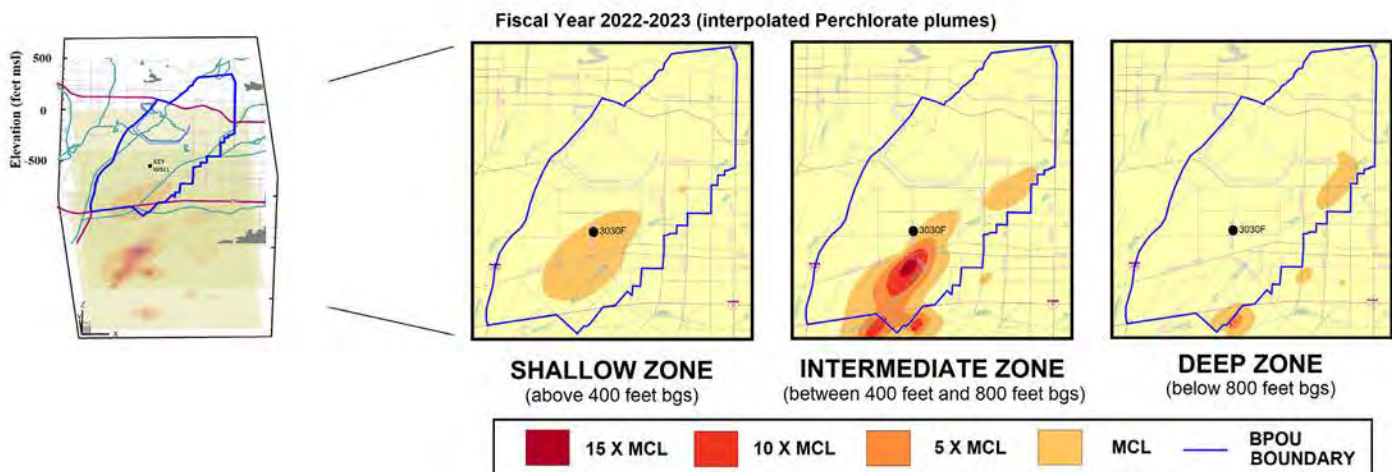
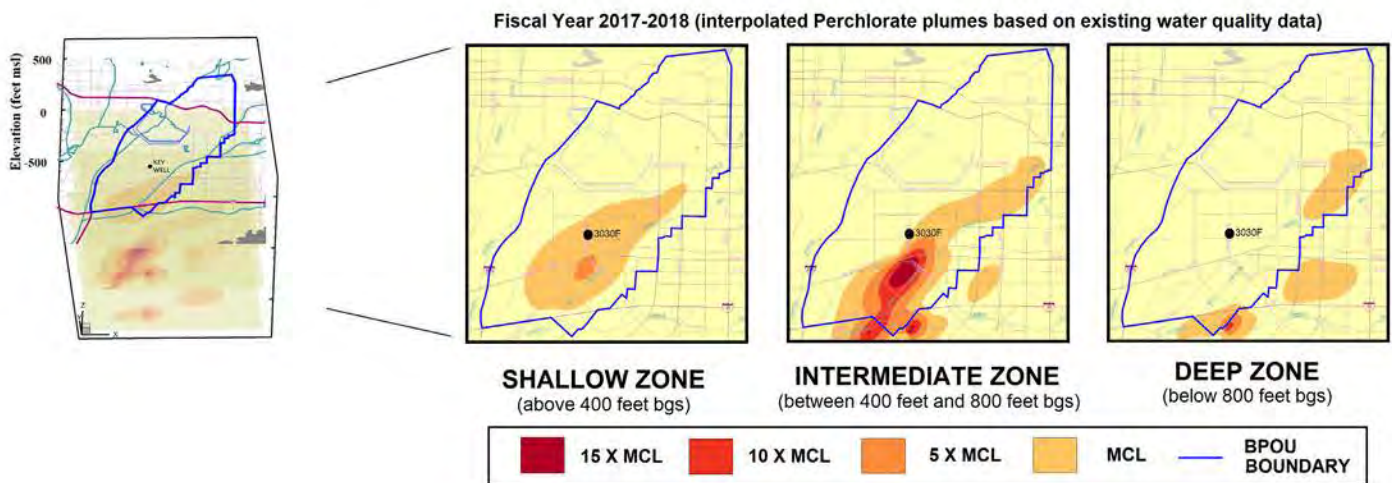
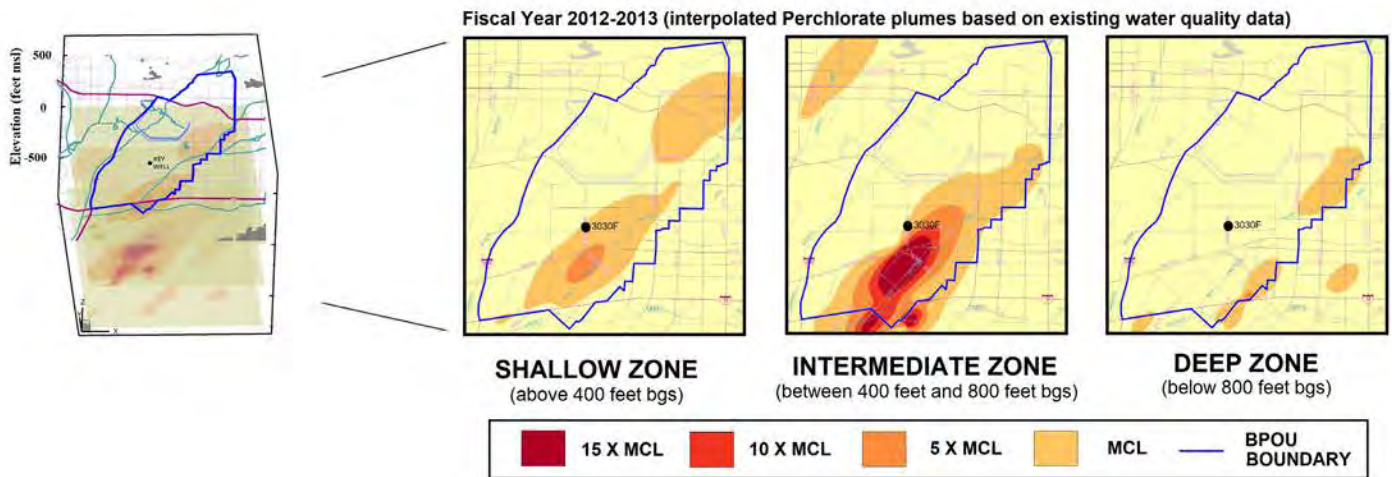


# VOC Plume Map in BPOU





# Perchlorate Plume Map in BPOU









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