

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT

COYOTE VALLEY GROUNDWATER BASIN 2022 MONITORING REPORT

May 2023



Hidden Valley Lake Community Services District

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**COYOTE VALLEY GROUNDWATER BASIN
2022 MONITORING REPORT**

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INTRODUCTION

The Hidden Valley Lake Community Services District (District) serves municipal water to the Hidden Valley Lake Subdivision, a 3,200-acre planned community situated in southeastern Lake County. The development consists of about 3,350 residential lots, an 18-hole public golf course, campgrounds, parks and open space. Treated wastewater from the District's wastewater treatment plant is used to supplement irrigation requirements for the golf course and parks.

The District water supply includes groundwater extracted from its Grange Road wells and its Agricultural Well located in the Coyote Valley Groundwater Basin (Basin) for municipal purposes within the Hidden Valley Lake Subdivision. Until recently, these wells were named as points of diversion in water right License 13527A and Permit 20770B, issued by the State Water Resources Control Board (SWRCB). Following a determination by the SWRCB that the water from these wells is not subject to the permitting authority of the SWRCB, the SWRCB issued an order on July 10, 2020 revoking water right License 13527A and Permit 20770B. Hence, the District is no longer subject to the terms and conditions of the water rights.

The conditions in Permit 20770 (predecessor to water right License 13527A and Permit 20770B) required the District to prepare a groundwater monitoring plan setting forth a program for construction of a series of dedicated monitoring wells and the collection and reporting of data pertinent to the seasonal groundwater levels within and surface water outflow from the Basin. This plan was submitted and subsequently approved by the State Water Resources Control Board on April 25, 1997. Conditions in License 13527A (hereinafter "License") and Permit 20770B (hereinafter "Permit") required the implementation of the groundwater monitoring plan. While the District is no longer subject to the requirements of the License and Permit, the District has elected to continue to carry out many of the monitoring activities described in the groundwater monitoring plan.

The District was also required to prepare annual reports documenting compliance with the terms and conditions of its License and Permit. While the District is no longer subject to the terms and conditions of the License and Permit, the District plans to continue with preparation of its annual groundwater basin monitoring reports. Hence, this report dated May 2023 is the annual report prepared based on the 1997 Coyote Valley Groundwater Basin Monitoring Plan and presents the groundwater data collected during calendar year 2022.¹ The following includes a discussion of groundwater basin monitoring activities of the District.

¹ Tables, figures, appendices, and Plate 3 of this report were prepared by District personnel.

DISTRICT GROUNDWATER MONITORING ACTIVITIES

REVOKED PERMIT CONDITION 11

“Permittee shall implement the provisions of the Groundwater Monitoring plan prepared by consultant James C. Hanson, dated February 1997, and approved by the Chief, Division of Water Rights by letter dated April 25, 1997. Permittee shall prepare an annual report summarizing the information collected under the plan and demonstrating compliance with the terms and conditions of this permit. The report shall display in tabular or graphical form daily flow records from the Guenoc gage (or twice monthly Putah Creek flows if this gage is discontinued), amount of supplemental water provided for each intervening period, and any instantaneous flow measurements made during periods when target flows are not achieved. The annual report shall also list static water levels at all points of diversion, as well as water levels in other monitoring wells or piezometers specified in the Groundwater Monitoring Plan. A copy of the annual report shall be submitted to the Chief of the Division of water Rights by December 31 of each year.”

The February 1997 Groundwater Monitoring Plan proposed the construction of eleven monitoring wells in the Coyote Valley Basin, four of which are located along a line generally parallel to Putah Creek and seven of which are located in the Crazy Creek drainage along a line perpendicular to Putah Creek. The monitoring wells are described in Table 1 and their locations shown on Plate 1.

Water level measurements for Grange Road wells GR1 and GR2 (Points of Diversion #1 and #2) were taken periodically beginning in 1984 and monthly since 1990. Monthly monitoring of Grange Road well GR3 (Point of Diversion #3) began in 1995. In October 2002, Grange Road well GR1 (Point of Diversion #1) failed and was immediately removed from service. In February 2003, the District installed Grange Road well GR4 at the same location to replace the failed GR1 well. GR4 was then considered as Point of Diversion #1 for purposes of diversion and reporting under the License and Permit. Monthly monitoring of GR4 began in July 2003.

The Agricultural Well (Point of Diversion #5) was added to the Permit and monthly monitoring began in February 1999. The District has not yet constructed the well named as Point of Diversion #4 in its Permit.

The District began monthly monitoring of wells TP 1, 2 & 3 in 1995, and wells MW 1, 2, 3 & 4 in 1996. Monitoring well MW-5 was constructed in June 1998 and has been monitored monthly since that time.

Monthly water surface elevations in the monitoring wells are tabulated on Table 2 and shown graphically on Plate 3. The geotechnical / drilling reports and boring logs for the Grange Road wells and the monitoring wells are contained in the Appendices to the 1997 Monitoring Plan, and in the 1998 and 2003 Annual Reports. They are also included as Appendix 1 of this report. Additionally, profiles of the 2022 spring and fall groundwater surface elevations at the monitoring wells (delineated on Plate 1 as Sections A-A' and B-B') are attached hereto as Plate 2.

REVOKED PERMIT CONDITION 13

“Permittee shall continue the joint funding agreement between permittee, Callayomi County Water District, and Solano County Water Agency for operation of the Putah Creek near Guenoc gaging station by the U.S. Geological Survey, posting of real time discharge measurements on the USGS Internet website, and publishing of data in the annual Water-Data Report.

In the event funding of this gaging station is no longer feasible, permittee shall either install and properly maintain a device, acceptable to the Chief of the Division of Water Rights, which is capable of measuring the flow of Putah Creek at the Guenoc gage site, or otherwise make instantaneous measurements of flow at this point. Such device or measurements shall employ instrumentation and methodology comparable with USGS streamflow measurement standards. Permittee shall make and record flow measurements twice a month, on or about the first and fifteenth of each month, starting on July 15 and ending on October 15 of each year.”

For the period 1993 through 1995, instantaneous discharge measurements of Putah Creek at the easterly end of Coyote Valley were made sporadically during the summer and early fall. In 1996 and 1997 instantaneous discharge measurements were made bimonthly. These measurements were made using a current meter or Parshall flume and are shown in Table 3 of the 2020 monitoring report.

In April 1998, the surface water gaging station “Putah Creek near Guenoc” (Station #11453500) was reestablished through a joint funding arrangement between Hidden Valley Lake

Community Services District, Callayomi County Water District and Solano County Water Agency. The gaging station is operated and maintained by the U.S. Geological Survey (USGS), and the data is published in its Annual Water Data Reports. The daily discharge data for the months July through October for the years 1998 through 2019 are shown on Table 4 of the 2020 monitoring report. Discharge measurements are posted on a real time basis on the Internet at the following address:

http://waterdata.usgs.gov/ca/nwis/uv/?site_no=11453500

REVOKED PERMIT CONDITION 14

“Permittee shall provide supplemental water downstream from the points of diversion to augment low flow in Putah Creek. ...For the period July 15 to October 31 of each year, permittee shall make-up the difference between actual discharge, as measured at the site of the former Guenoc USGS gaging station on Putah Creek...and the median daily discharge listed below:

Median Daily Discharge for Putah Creek at Guenoc, 1954-1975, (all amounts in cubic feet per second)

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>
4.7	1.7	0.9	0.6

Permittee shall not be required to provide supplemental water at a rate greater than two cubic feet per second. Permittee shall maintain a measuring device, acceptable to the Chief of the Division of Water Rights, which is capable of measuring both the instantaneous rate and the total amounts of supplemental water discharged to Putah Creek.”

The Grange Road wells (GR2, GR3 and GR4) and the Agricultural Well are equipped with in-line flow meters that are used to measure the instantaneous rate and total amount discharged. The Agricultural Well had been used in conjunction with the Grange Road wells to augment the flow of Putah Creek. In order to convey water to Putah Creek, the District acquired an easement from an adjoining landowner (Sutter Home Vineyards) and during 1998 and 1999 installed approximately 6,800 feet of permanent underground pipeline that begins at the Agricultural Well and terminates at the easterly boundary of the Sutter Home property (see Plate 1). A major portion of this pipeline was destroyed during the winter floods of 2005/2006 and was subsequently replaced in 2007. A temporary pipeline has been used to convey water from the end of the permanent line to the point of discharge in Putah Creek when supplemental water was

subsequently discharged to Putah Creek. Due to the revocation of the District's License and Permit, supplemental discharges to Putah Creek are no longer required.

1995-1997 SUPPLEMENTAL WATER

Table 3 of the 2020 monitoring report summarizes the measured flow of Putah Creek during the period of 1995 to 1997. No supplemental water was required to be delivered in 1995 and 1996, but approximately 200 acre-feet of supplemental water was discharged in 1997. The daily summary of the average rate of supplemental water discharged in 1997 is shown on Table 5 of the 2020 monitoring report.

1998-2005 SUPPLEMENTAL WATER

The average daily discharge of Putah Creek and the monthly summary of supplemental water discharged from 1998 to 2005 are shown in Table 4 of the 2020 monitoring report. The daily summary of the average rate of supplemental water discharged for this period is shown in Table 5 of the 2020 monitoring report.

2006-2007 SUPPLEMENTAL WATER

The winter storms of December 2005 and January 2006 destroyed approximately 800 feet of the permanent pipeline located on the Sutter Home Vineyards' property used to deliver supplemental water. To comply with the terms of its License and Permit, the District entered into an agreement with a neighboring landowner for the use of a groundwater well to deliver supplemental water during 2006. The permanent pipeline replacement was completed in September 2007. The District began delivery of supplemental water to Putah Creek on October 8, 2007. The daily summary of supplemental discharges for 2006 and 2007 is shown in Table 5 of the 2020 monitoring report.

2008-2011 SUPPLEMENTAL WATER

In 2008, the Agricultural Well was pumped continuously from July 2008 through October 2008 discharging at its maximum rate of about 450 gallons per minute. In August 2008, the District commenced use of Grange Road Well 3 to supplement the discharge to Putah Creek. Well 3 was run at its maximum capacity of about 450 gallons per minute, resulting in a total discharge

for the two wells of 900 gallons per minute to Putah Creek. In September and October 2008, Well 3 was offline due to a mechanical problem.

In 2009, discharging of supplemental water occurred from July 14, 2009 through October 13, 2009. From October 13, 2009 through the end of the supplemental water discharge period, the flow in Putah Creek rose and stayed above the minimum requirement.

In 2010, the District began discharging supplemental water from the Agricultural Well on July 26, 2010 as the flow in Putah Creek was below the minimum flow requirement. Discharging of supplemental water from the Agricultural Well was discontinued on October 7, 2010 in order to install a pressure release valve on Well 3 (which is interconnected with the Agricultural Well) as required by the Department of Health Services. Pumping from the Agricultural Well recommenced on October 11, 2010 after the repair of Well 3 was complete.

In 2011, the District began discharging supplemental water from the Agricultural Well and Grange Road Well 3 on September 6, 2011 when the flow in Putah Creek suddenly fell below the minimum flow requirement, apparently due to the onset of pumping from the Creek by a downstream diverter. Discharge of supplemental water from Well 3 was discontinued on September 7, 2011, and pumping from the Agricultural Well was discontinued on September 12, 2011.

Table 5 of the 2020 monitoring report includes a daily summary of 2008 through 2011 supplemental water discharge.

2012 SUPPLEMENTAL WATER

The District began discharging supplemental water on July 13, 2012. Supplemental water was discharged to Putah Creek from the Agricultural Well and Grange Road Well 3. On October 15, 2012 discharge from the Agricultural Well was discontinued. Discharge from Well 3 was discontinued on October 22, 2012. The daily summary of the average rate of supplemental water discharged for 2012 is shown in Table 5 of the 2020 monitoring report.

On April 19, 2012, the SWRCB issued an Administrative Civil Liability Complaint (ACL) and Draft Cease and Desist Order against the District for non-compliance with its Permit and License for insufficient supplemental water discharges to Putah Creek on certain days in 2010. In the ACL, the SWRCB did not consider all relevant circumstances surrounding the alleged violations, including unrefuted evidence submitted by the District about the causes of the non-compliance, nor did they provide any evidence of the extent of harm caused by the District's actions. The District entered into a Settlement Agreement with the SWRCB which was confirmed by SWRCB Order 2012-0014-EXEC. The Settlement Agreement and Order did not represent acquiescence by the District of any harm caused the environment due to any alleged non-compliance. The District has provided the SWRCB with evidence for many years of the impacts associated with the downstream landowner's diversions and the lack of tangible benefit of the supplemental water program (see Putah Creek Habitat Assessments in subsequent section).

2013 SUPPLEMENTAL WATER

The District began discharging supplemental water to Putah Creek on July 14, 2013 from the Agricultural Well and Grange Road Well 3. On August 27th, the District stopped pumping to Putah Creek from Grange Road Well 3 due to a declining rate of production and began pumping from Grange Road Well 2. The daily summary of the average rate of supplemental water discharged in 2013 is shown in Table 5 of the 2020 monitoring report.

On January 3, 2013, the District submitted Petitions for Change to the State Water Board. In addition to requesting changes to the authorized place of use and points of diversion named in Permit 20770B and License 13527A, the Petitions also sought removal of the supplemental discharge requirement and the requirement to prepare annual groundwater monitoring reports.

2014 SUPPLEMENTAL WATER

Due to drought conditions, the District became concerned about impacts to the adequacy of its potable water supply and water quality conditions. On April 1, 2014, the District filed Temporary Urgency Change Petitions (TUCPs) requesting temporary relief from the supplemental discharge term within License 13527A and Permit 20770B in order that the District might not be

required to pump groundwater from its municipal water supply (wells) to meet the flow requirement in Putah Creek during the summer months.

On May 27, 2014, the SWRCB issued a Notice of Unavailability of Water and Immediate Curtailment for post-1914 appropriative water right diversions located within the Sacramento-San Joaquin River Watershed, which included the diversions authorized by License 13527A and Permit 20770B. On June 24, 2014, the District submitted a request for exception to allow for continued diversion to meet the health and safety needs of its municipal service area residents. On July 11, 2014, SWRCB staff indicated that no action would be taken in response to the District's TUCPs. The District requested confirmation from SWRCB that the District would not be subject to the supplemental discharge requirement while its water rights were curtailed. On July 25, 2014, the SWRCB issued an order denying the TUCPs stating that the SWRCB cannot approve TUCPs for water rights that have been curtailed. The order denying the TUCP did not address the effect of the curtailment on the supplemental discharge requirement. The District continued to operate with the understanding that the supplemental discharge requirement was effectively suspended as a result of the curtailment. Hence, the District did not pump water into Putah Creek. The supplemental discharge requirement ended on October 31, 2014. On November 19, 2014, the State Water Board temporarily lifted the water right curtailment. The curtailment did not recommence prior to the end of 2014.

2015 SUPPLEMENTAL WATER

On May 1, 2015, the SWRCB issued a Notice of Unavailability of Water and Immediate Curtailment for post-1914 appropriative water right diversions located within the Sacramento-San Joaquin River Watershed, which includes the diversions authorized by License 13527A and Permit 20770B. The District submitted the required Curtailment Certification Compliance forms on May 8, 2015, indicating the need for continued diversion to meet the health and safety needs of its municipal service area residents. As it did during the curtailment period in 2014, the District continued to serve water to the subdivision with the understanding that the supplemental discharge requirement in its Permit and License was effectively suspended as a result of the curtailment. On November 2, 2015, the State Water Board temporarily lifted the water right curtailment through November 6, 2015. On November 6, 2015, the State Water Board lifted the water right curtailment

until further notice. The supplemental discharge requirements end on October 31, 2015; therefore, no supplemental water was delivered to Putah Creek in 2015. The curtailment did not recommence prior to the end of 2015.

As shown in Table 4 of the 2020 monitoring report, only minimal flow was recorded at the USGS Putah Creek gage during July 2015, with no measured flow recorded at the gage from August 1, 2015 to October 31, 2015. As in 2014, no water was pumped by the District to supplement Putah Creek flows in 2015, due to curtailment of water rights.

2016 SUPPLEMENTAL WATER

On July 22, 2016, the District submitted Temporary Urgency Change Petitions (TUCPs) for its License and Permit requesting temporary relief from the wasteful supplemental discharge requirement for the period of July 15, 2016 through October 31, 2016, based on concerns over potential water shortage and water quality issues in the upcoming year. The District's TUCPs cited the Governor's several drought declarations, emergency proclamations, and executive orders, which identify a need for conservation of water and the need to wisely use water due to expected continuing dry conditions. In keeping with the Governor's orders, the constitutional policy of the state that water resources not be wasted, and in anticipation of State Water Board approval of the TUCPs, the District did not pump water from its potable water supply in 2016 for delivery into Putah Creek.

By Order dated September 23, 2016, the State Water Board denied the TUCPs. The Order was received by the District September 26, 2016. On October 19, 2016, the District responded to the State Water Board Order to provide additional information and correct misstatements within the Order. The incorrect or misleading statements and omissions of relevant facts within the Order included suggestion that no real water shortage concerns were identified for the District, an implication that reduction in groundwater supply must be proven to increase contaminant concentrations in order to justify the requested change, an allegation that the District has not attempted to secure an alternate source of potable water, and a failure to address the years of habitat study reports demonstrating ecologically harmful effects and wastefulness of the supplemental discharge program.

2017 SUPPLEMENTAL WATER

As shown in Table 4 of the 2020 monitoring report, during 2017, average daily flows measured at the Putah Creek gage remained above the required flow levels from July 15 through October 31, and the District did not pump supplemental water into Putah Creek. During the 2017 water year, precipitation recorded at Middletown was well above the long-term average.

2018 SUPPLEMENTAL WATER

Table 4 of the 2020 monitoring report shows average daily flows measured at the Putah Creek gage for July through October. A hydrograph of Putah Creek discharge included as Appendix 1 also shows flows at the Putah Creek gage for the July 15 through October 31 supplemental discharge period in 2018. Putah Creek flows were below the required flow levels at times during the supplemental discharge period in 2018. The District did not pump supplemental water into Putah Creek due to inability to obtain permission from the neighboring landowner to access the supplemental discharge location on Putah Creek.

2019 SUPPLEMENTAL WATER

As shown in Table 4 of the 2020 monitoring report, during 2019, average daily flows measured at the Putah Creek gage remained above the required flow levels from July 15 through October 31, and the District did not pump supplemental water into Putah Creek. During the 2019 water year, precipitation recorded at Middletown was well above the long-term average.

TERMINATION OF SUPPLEMENTAL WATER REQUIREMENT

With the revocation of the water right License and Permit by SWRCB order on July 10, 2020, the District is no longer required to pump supplemental water into Putah Creek. Hence, supplemental water is no longer pumped into Putah Creek by the District, and subsequent reports will not include current-year supplemental discharge information.

SUSTAINABILITY

California passed the Sustainable Groundwater Management Act in 2014, requiring formation of local groundwater sustainability agencies (GSAs) and development, adoption and implementation of groundwater sustainability plans (GSPs) by the GSAs. Local agencies were

required to form a GSA by June 30, 2017 for groundwater basins designated as high and medium priority. Basins that were assigned a high or medium level of priority were required to adopt a GSP by January 31, 2020 or January 31, 2022 depending on the overdraft condition of the basin. The Coyote Valley Groundwater Basin is currently listed as a very low priority basin. Currently, development of a GSP is not required for the Coyote Valley Groundwater Basin. The District is currently engaged in discussions to advance the formation of a GSA. Information in the annual groundwater monitoring reports is expected to aid in the eventual development of a GSP.

The data collected by the District over the years demonstrates that the Coyote Valley Groundwater Basin is well-managed and is sustainable within the expectations of the Sustainable Groundwater Management Act of 2014. Management practices have resulted in stable groundwater supplies and a declining per capita water use within the District. Based on a comparison of 2022 to 2002 data, per capita water use within the District has declined about 39% since the year 2002. Annual groundwater monitoring reports have demonstrated no long-term negative effect on groundwater levels in the basin due to the extraction of water from the four wells operated by the District. As documented in the District's annual monitoring reports, monthly groundwater levels recover following periods of average, or better-than-average precipitation, and, in some cases, following periods of less than average precipitation as well.

The relationship between groundwater elevation recovery and precipitation in the basin is illustrated in the graphs of historical groundwater elevation and the graph of total annual precipitation over the same time period (refer to Plate 3). Plate 3 graphs show that groundwater levels at the District's production wells (Grange Road Wells 2, 3, 4 and the Agricultural Well) and monitoring wells in the vicinity of the production wells (Wells MW2A and MW2B) fall during the dry season each year and recover in years of average or above-average rainfall. For example, groundwater levels in Grange Road Well 4 recovered from an elevation of 922 feet to about 940 feet during the 2006 water year. The same well was at 911 feet in August 2014 and at 933 feet in March 2015.

Precipitation during eight of the past ten water years, including 2022, was less than average. However, precipitation during the 2017 and 2019 water years was well above average.

Water levels have tended to increase with average to above-average precipitation. Historically, fluctuations corresponding to seasonal precipitation have been observed, but groundwater levels have not shown a long-term downward trend. Water level fluctuation in recent years has been a function of precipitation, not over-use of the groundwater resource. Despite several recent years of less than average precipitation, groundwater surface elevations recovered to higher than average levels, indicating long-term sustainability within the groundwater basin.

PUTAH CREEK HABITAT ASSESSMENTS

Beginning in 2007, Aquatic Ecologist Mike Podlech conducted reconnaissance level aquatic habitat assessments of the Putah Creek channel in the vicinity of the USGS stream gage, with the most recent assessments being conducted in July and October of 2014. Copies of Mr. Podlech's 2014 habitat assessment reports were included in the 2014 Groundwater Basin Monitoring Report.

In his October 2014 assessment report, Mr. Podlech states that the supplemental water discharged by the District would have the effect of artificially creating "normal" water year conditions within the assessment reach during "below normal" water years. He states, "Non-native bullfrogs, a voracious predator of foothill yellow-legged frogs and other native amphibians, have routinely been observed in the pool containing the USGS gage and other areas of the assessment reach. Periodic natural drying of the assessment reach may help suppress local bullfrog populations through elimination of some tadpoles." Mr. Podlech's reports suggest that the supplemental water program may have been ecologically detrimental, given that it maintained an unnatural condition that supported a largely non-native fishery and invasive bullfrogs. Because no supplemental water was delivered in 2014, natural dry conditions were allowed to develop in the stream below the supplemental discharge point for the first time in several years, yet Mr. Podlech still observed that surface water was present in the channel from the pool containing the USGS gage downstream to the end of the assessment reach.

SUPPLEMENTAL WATER SUMMARY

The total annual amount of water diverted by the District pursuant to its License and Permit as reported to the SWRCB in the annual "Progress Reports by Permittee" and "Report of Licensee"

and the annual amount of supplemental water discharged are as follows²:

<u>Year</u>	<u>Beneficial Use Reported to SWRCB under Permit & License (Acre-Feet)</u>	<u>Supplemental Water (Acre-Feet)</u>
1995	651	0
1996	766	0
1997	582	200
1998	505	0
1999	562	58
2000	537	153
2001	668	233
2002	916	0
2003	823	99
2004	998	60
2005	917	6
2006	860	2
2007	1,258	64
2008	1,261 ³	260
2009	1,155 ³	203
2010	922	185
2011	749	19
2012	1,208	414
2013	1,273	430
2014	857	0
2015	644	0
2016	829	0
2017	674	0
2018	840	0
2019	679	0

SUMMARY AND CONCLUSIONS

When License 13527A was issued in 2001, it was generally believed that the District’s extractions from the Coyote Valley groundwater basin could have a measurable impact on groundwater elevations in the vicinity of Putah Creek, and more specifically, the magnitude and duration of summer and fall surface stream flows downstream of the former USGS gaging station site on Putah Creek at Guenoc. During the summer and fall, the surface stream flow of Putah Creek in the vicinity of the USGS gage is derived from subsurface accretions (“rising” groundwater). Accordingly, the term that mandated supplemental stream flow releases, and the term that required the District to implement the 1997 groundwater monitoring plan, were incorporated into License 13527A and Permit 20770B as mitigation and on-going monitoring measures in the event that the District’s water diversions actually adversely impacted subsurface accretions.

² These amounts do not include reported use of reclaimed water.

³ This is an amendment to a previous report.

Groundwater elevation data compiled by the District and others since 1997, as well as riparian habitat surveys conducted on behalf of the District from 2007 through 2014, indicate that there has been no measurable impact to subsurface accretions or degradation of riparian vegetation as a result of the District's water diversions. Additionally, more abundant and dense riparian vegetation was found to be present during the more recent surveys of Putah Creek upstream of the supplemental discharge location compared with the area downstream of the gage, even though supplemental discharges had been released to downstream areas during the summer months almost every year from 1995 through 2013.

In its annual Progress Report by Permittee and Report of Licensee, the District consistently identified the water conservation efforts it implements for its municipal water use. These measures include continual use of dye tablets and use of advanced metering infrastructure to identify system leaks, re-reading of meters to verify any unusual use, water conservation incentive packages to users, rebates for low-flow toilets, shower heads, replacement of old meters, etc. As a result of these conservation efforts, the District's water use per capita has been significantly reduced over the past several years. The average annual use per connection has decreased by more than 39% since the year 2002 due to the District's aggressive water conservation program. Since 1997 the District delivered 2,386 acre-feet of supplemental water to Putah Creek pursuant to the terms of its License and Permit, and it expended over \$1.5 million for compliance with the terms of its License and Permit to achieve a better understanding of the Coyote Valley Basin.

TABLES

TABLE 1**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING WELLS**

	<u>Well Designation</u>	<u>Location</u>	<u>Date Drilled</u>	<u>Measuring Point Elevation (MSL)</u>	<u>Depth of Well (ft)</u>	<u>Perforation Interval (ft)</u>
Treatment Plant	TP 1	11N/6W-30J	28-Oct-94	961.25	52	30-50
	TP 2	11N/6W-30Q	28-Oct-94	963.86	52	14-50
	TP 3	11N/6W-30Q	28-Oct-94	966.63	52	14-50
Grange Road	GR 1 ⁽¹⁾	11N/6W-29D	14-Jun-76	957.5	112	50-110
	GR 2	11N/6W-29D	15-May-85	959.36	292	70-115
	GR 3	11N/6W-29D	22-Oct-91	956.69	205	80-170
	GR 4	11N/6W-29D	26-Feb-03	956.89	231	50-110, 148-188
Spyglass #7	MW 1A	11N/6W-18P	05-Sep-96	978.82	100	74-79
	MW 1B	11N/6W-18P	05-Sep-96	978.82	100	40-45
Grange Road	MW 2A	11N/6W-20N	09-Sep-96	955.63	100	86-96
	MW 2B	11N/6W-20N	09-Sep-96	955.63	100	35-40
American Rock	MW 3A	11N/7W-13L	11-Sep-96	991.35	82	70-80
	MW 3B	11N/7W-13L	11-Sep-96	991.35	82	30-35
Golf Course-18th Tee	MW 4	11N/6W-20M	12-Jun-73	960.69	110	30-95
Luchetti	MW 5A	11N/6W-28J	01-Jun-98	942.15	100	90-100
	MW 5B	11N/6W-28J	01-Jun-98	942.14	100	30-40
Agricultural Well	AG 1	11N/6W-30A	1997 ⁽²⁾	957.87	90	63-83

(1) Grange Road Well # 1 (GR1) failed in 2002. Grange Road Well #4 (GR4) was installed in 2003 at the same location

(2) Agriculture Well was rehabilitated in 1997. Date of original drilling is estimated to be between 1930 and 1940

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}	Ag Well ⁵	
	GR 1 ⁷	GR 2	GR 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
02-Feb-90	934.42	935.44											
09-Mar-90	936.42	937.36											
12-Apr-90	933.50	935.11											
11-May-90	929.92	931.11											
11-Jun-90	932.50	934.36											
15-Jul-90		931.78											
20-Aug-90	926.25	925.28											
02-Oct-90	922.50	922.53											
07-Nov-90	923.67	925.11											
14-Dec-90	925.83	927.28											
14-Jan-91	927.08	928.53											
08-Feb-91	927.83	929.11											
08-Mar-91	931.17	932.61											
12-Apr-91	935.42	936.53											
13-May-91	935.42	936.53											
17-Jun-91	932.33	933.53											
18-Jul-91	931.00	932.19											
15-Aug-91	913.50	928.61											
13-Sep-91	925.08	926.69											
14-Oct-91	924.08	924.11											
27-Nov-91	921.17	923.11											
13-Dec-91	924.75	926.19											
10-Jan-92	927.25	928.53											
18-Feb-92	930.25	931.53											
18-Mar-92	933.75	935.19											
10-Apr-92	933.33	934.36											
13-Jun-92	925.50	927.36											
09-Jul-92	925.50	927.36											
14-Aug-92	923.92	926.03											
12-Oct-92	920.58	922.69											
11-Nov-92	922.75	924.36											
15-Dec-92	925.92	927.03											
16-Feb-93	940.83	941.19											
16-Mar-93	941.00	941.78											
10-May-93	935.80	936.66											
15-Jul-93	927.40	929.26											
19-Aug-93	927.40	927.76											
15-Oct-93	925.50	926.86											
30-Nov-93	928.30	929.66											
30-Dec-93	930.70	931.76											
20-Jan-94	930.90	931.76											
17-Feb-94	933.00	934.56											
15-Mar-94	934.50	935.16											

TABLE 2

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN**

**WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)**

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
29-Apr-94	931.50	933.06														
31-May-94	930.00	931.26														
24-Jun-94	926.20	927.56														
22-Jul-94	921.70	923.56														
12-Oct-94	916.50	918.56														
04-Jan-95	928.50	930.06														
03-Mar-95	940.50	941.06		954.75	957.36	961.13										
17-Mar-95	932.83	934.94														
14-Apr-95	941.00	941.86		954.75	957.44	962.30										
17-May-95	938.17	939.19	937.02													
13-Aug-95	926.25	926.19														
15-Sep-95	922.50	923.36														
19-Oct-95				952.58	957.36	960.96										
20-Oct-95	920.50	922.53														
15-Nov-95	923.58	924.84														
12-Jul-96	929.58	930.19	931.02													
15-Aug-96	926.08	927.36		948.75	954.44	957.21							941.36			
15-Sep-96	923.92	925.03	925.11	949.92	955.11	958.96	963.90	963.99	935.96	936.88	969.85	969.85				
15-Oct-96	921.83	924.53		945.08	954.53	958.55	963.74	963.74	936.05	937.46	969.27	969.18	941.69			
15-Nov-96	926.00	928.03		948.00	951.28	954.63	964.32	964.65	937.71	939.55	970.02	969.77	942.11			
15-Dec-96	930.00	931.61	932.02	949.17	955.53	959.96	966.32	966.82	938.80	940.46	971.85	971.60	945.19			
15-Jan-97	940.17	941.19	938.27	951.50	955.53	960.05	961.49	961.57	941.05	941.05	975.35	975.27	946.02			
12-Feb-97	941.75	942.86	939.19	951.92	955.44	959.96	960.49	960.57	940.96	940.71	973.77	973.68	945.94			
12-Mar-97	938.92	939.69	937.19	951.08	955.11	959.13	967.24	967.32	939.88	940.05	971.60	971.52	943.11			
18-Apr-97	934.67	935.78	934.69	950.67	954.86	958.30	965.90	965.99	939.30	939.96	971.68	971.43	942.02			
14-May-97	930.75	932.19	932.44	948.83	954.69	957.38	965.40	965.32	938.80	939.80	970.85	970.77	941.69			
17,18-Jun-97	935.83	934.94	931.69	946.00	952.44	954.80	964.40	964.49	937.88	939.05	969.85	969.77	941.44			
17-Jul-97	927.75	928.61	930.02	947.08	953.86	956.30	965.65	965.99	938.88	939.96	971.52	971.77	941.11			
21-Aug-97	920.33	922.94	926.86	944.08	952.11	954.46	963.99	963.99	935.30	935.46	971.18	971.18	945.52			
18-Sep-97	920.33	921.53	911.61	942.42	946.44	948.13	963.74	963.57	933.80	935.46	968.93	969.10	940.52			
20-Oct-97	924.25	921.28	923.77	939.25	953.36	955.55	960.15	960.65	932.63	935.63	970.93	970.89	941.94			
18-Nov-97	925.50	927.44	929.19	954.50	956.11	944.88	966.24	966.82	939.71	941.21	971.35	971.35	942.86			
17-Dec-97	931.42	932.78	933.11	949.67	955.19	959.55	968.32	968.57	939.30	940.21	971.60	971.68	945.69			
14-Jan-98	935.00	935.94	935.86	952.42	955.86	960.21	971.44	971.74	940.13	940.63	974.35	974.27	946.69			
18-Feb-98	945.33	946.11	942.19	953.42	955.94	960.63	973.82	974.78	942.25	941.30	977.52	977.43	947.69			
23-Mar-98	941.17	942.28	934.36	952.33	955.78	960.30	969.82	970.07	940.21	939.63	972.52	972.35	946.02			
15-Apr-98	937.58	938.69	937.02	951.67	955.11	959.55	969.07	968.82	939.63	940.05	971.85	971.68	945.94			
18-May-98	935.58	936.86	935.94	950.83	954.86	958.80	966.99	967.15	938.71	938.80	971.35	971.10	943.44			
17-Jun-98	937.00	938.03	935.94	950.75	954.03	958.63	967.32	967.49	938.63	938.80	971.35	971.18	943.11	923.98	924.22	
14-Jul-98	933.17	934.36	933.69	946.58	954.44	956.71	965.40	965.49	937.38	938.21	970.77	970.68	941.94	921.90	922.72	
14-Aug-98	930.83	932.53	932.02	947.67	954.36	958.05	964.49	964.65	937.05	937.80	971.60	971.52	941.44	921.07	922.39	
18-Sep-98	929.17	930.86	930.11	946.92	953.11	955.63	963.82	963.99	936.71	937.63	969.60	969.52	940.86	921.82	922.64	
16-Oct-98	929.00	930.36	929.69	945.42	952.19	954.80	963.74	963.99	936.80	937.71	969.43	969.27	941.02	922.15	922.47	

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
09-Nov-98	930.25	931.44	931.52	947.00	953.11	955.55	963.82	964.15	936.88	937.80	969.18	969.27	940.94	922.07	922.39	
15-Dec-98	933.25	934.44	931.77	949.42	954.61	958.63	966.57	966.90	937.88	938.21	970.52	970.52	943.11	923.65	923.81	
01-Jan-99	930.50	931.44	937.11	949.92	954.86	959.05	965.15	965.32	937.80	937.55	975.93	976.10	942.36	922.73	923.06	
19-Feb-99	935.50	936.78	936.19	952.17	955.69	960.47	972.49	972.90	939.71	939.88	975.02	974.93	946.61	926.73	926.64	937.87
19-Mar-99	938.50	939.44	936.94	951.58	955.19	959.71	970.40	970.57	939.13	938.88	972.85	973.02	945.86	925.98	926.06	939.87
21-Apr-99	938.92	939.94	937.52	951.17	955.03	959.38	969.15	969.32	939.13	938.80	972.27	972.18	945.11	925.07	925.22	941.29
14-May-99	935.42	936.44	934.77	950.92	954.86	958.80	966.90	967.07	937.88	938.05	971.35	971.18	942.52	922.40	922.39	937.12
18-Jun-99	929.50	931.11	931.44	950.50	954.61	957.55	965.07	965.24	936.71	937.46	970.52	970.60	941.52	922.82	922.39	931.62
16-Jul-99	929.17	930.44	930.19	949.67	954.44	956.30	964.24	964.57	936.17	937.21	969.68	969.77	941.11	922.15	923.31	930.29
16-Aug-99	926.92	928.28	930.27	951.08	954.03	952.30	963.90	964.15	935.96	935.80	974.02	974.43	940.77	921.32	922.72	931.04
16-Sep-99	925.25	927.19	928.61	946.58	953.86	956.46	963.57	963.90	935.05	935.96	969.27	969.18	940.61	920.32	921.14	927.04
16-Oct-99	925.83	926.86	927.69	945.67	952.69	954.96	963.49	963.57	935.80	936.71	969.10	968.85	940.61	920.73	921.97	927.87
15-Nov-99	928.67	929.78	930.11	944.00	951.36	953.80	963.57	963.90	936.13	937.13	969.18	968.52	940.69	921.23	921.56	930.54
16-Dec-99	930.92	932.28	931.69	944.42	952.78	956.05	963.82	964.24	937.05	937.38	969.27	969.43	940.86	921.82	921.64	932.70
19-Jan-00	932.33	933.28	933.11	948.08	954.86	959.30	964.32	964.99	937.96	938.63	970.35	970.52	943.11	922.90	922.06	934.04
15-Feb-00	936.75	937.78	936.44	955.17	955.86	958.30	971.90	972.15	940.46	940.71	976.10	975.60	947.02	927.15	926.89	938.79
16-Mar-00	936.08	941.69	934.11	951.92	955.11	959.96	971.90	972.15	939.63	939.30	974.02	974.18	946.27	926.48	926.89	943.04
15-Apr-00	934.75	935.78	934.02	950.25	954.94	959.05	967.40	967.74	937.46	937.80	971.43	971.60	942.61	923.48	923.89	937.12
15-May-00	932.25	933.03	932.69	950.08	954.69	957.71	965.82	966.07	936.80	937.21	970.68	970.43	941.86	922.82	923.22	933.29
14-Jun-00	926.50	929.78	930.52	949.67	954.36	962.30	964.57	964.90	936.38	937.05	972.27	972.52	941.61	921.07	922.64	930.45
14-Jul-00	923.75	926.03	927.77	948.08	954.44	955.13	963.99	964.24	935.71	936.21	969.60	969.68	940.94	920.15	920.89	924.37
15-Aug-00	927.42	924.28	926.52	948.08	954.11	955.30	963.82	964.24	934.55	935.38	970.68	970.93	940.52	922.57	922.97	921.87
14-Sep-00	920.83	920.19	926.69	944.50	951.86	953.96	963.74	963.90	934.46	935.63	969.18	969.06	940.52	921.07	921.89	923.87
16-Oct-00	920.17	921.86	925.11	942.92	951.04	953.13	963.40	963.65	934.71	936.38	969.02	968.93	940.27	919.82	921.47	919.95
15-Nov-00	925.92	927.44	928.94	941.33	950.86	952.96	963.82	964.07	935.80	937.13	968.93	968.85	940.19	921.40	921.31	927.62
13-Dec-00	928.67	930.19	930.44	940.75	950.78	952.63	963.74	963.90	936.30	937.05	969.10	969.10	940.61	921.40	921.39	930.54
17-Jan-01	930.50	931.69	931.69	946.46	954.40	958.38	965.15	965.57	937.55	938.13	969.77	969.77	942.52	922.48	921.89	932.12
15-Feb-01	932.00	933.19	933.11	949.83	954.94	959.30	967.44	967.78	937.63	938.21	970.97	970.85	945.31	923.07	922.93	932.95
15-Mar-01	936.50	937.57	936.15	950.92	955.03	959.71	965.82	966.07	938.30	938.38	975.27	975.60	941.11	924.82	924.97	938.45
17-Apr-01	929.37	930.78	932.36	950.00	954.69	958.92	967.07	967.36	937.09	937.55	971.43	971.39	942.56	923.07	923.31	932.62
17-May-01	929.00	930.28	930.61	950.00	954.61	958.38	965.40	965.57	936.38	937.13	970.77	970.81	942.61	921.02	921.72	929.70
19-Jun-01	922.92	925.15	928.61	951.50	954.61	956.05	954.49	954.74	938.05	938.30	969.60	969.77	941.36	922.15	922.39	926.04
18-Jul-01	920.17	921.61	926.27	948.25	954.44	958.55	964.07	964.28	934.05	933.84	969.27	969.18	940.81	918.27	921.26	957.87
20-Aug-01	911.37	912.69	916.11	944.79	952.19	954.30	959.24	958.78	931.92	933.92	968.72	968.18	938.90	922.57	922.01	917.08
18-Sep-01	910.04	917.73	912.86	946.21	952.61	954.50	960.61	960.74	933.88	934.00	968.06	967.77	941.94	918.23	918.01	909.49
16-Oct-01	908.08	911.11	918.36	940.04	950.53	952.63	961.24	963.40	931.84	932.71	968.35	968.18	940.31	917.77	920.56	912.62
16-Nov-01	917.33	919.19	923.81	934.75	951.94	954.55	960.90	960.69	934.88	934.63	971.77	971.89	943.11	923.52	923.39	919.12
18-Dec-01	926.25	928.53	930.86	949.67	955.28	959.80	968.99	969.32	937.46	937.55	971.93	971.97	943.06	923.40	923.22	925.08
16-Jan-02	936.17	937.11	936.69	952.17	955.78	960.55	972.24	972.40	939.55	939.13	975.27	975.10	946.27	926.07	926.56	938.29
19-Feb-02	933.42	934.11	934.61	950.33	955.19	959.80	961.57	961.82	937.88	938.05	972.60	972.27	943.11	923.48	923.89	934.29
15-Mar-02	933.00	934.44	934.02	950.50	955.57	958.71	961.07	960.57	935.71	935.55	970.73	971.27	941.94	922.19	921.97	935.50

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
18-Apr-02	931.13	932.44	932.36	950.42	954.99	959.05	965.53	965.90	937.05	937.63	970.85	970.73	942.11	922.32	922.97	934.45
16-May-02	929.67	932.36	928.52	949.67	955.11	958.05	959.90	959.74	936.01	935.88	971.27	971.35	941.11	923.36	923.14	930.70
18-Jun-02	930.08	931.61	931.44	949.83	954.53	956.71	964.65	964.74	936.21	937.05	970.77	970.68	941.27	921.32	921.47	
17-Jul-02	921.42	924.11	926.69	947.13	954.07	955.71	964.32	964.61	934.88	936.05	969.27	969.14	941.48	920.90	920.93	922.37
16-Aug-02	914.33	915.78	929.02	945.92	953.11	954.88	964.32	964.40	933.63	934.96	969.02	969.10	936.27	918.82	920.89	915.54
16-Sep-02	913.17	914.69	920.36	948.04	952.11	956.71	957.49	957.20	935.67	935.55	969.43	969.27	940.44	921.90	921.72	916.12
16-Oct-02	910.42	910.44	917.40	938.88	949.78	951.80	962.65	962.95	930.05	932.13	967.52	967.35	939.94	915.57	918.97	910.29
14-Nov-02		917.69	919.61	934.33	951.19	953.30	964.32	964.65	933.46	936.05	968.10	967.60	941.27	918.57	918.81	917.29
18-Dec-02		926.53	927.61	943.17	954.69	959.38	970.65	970.82	937.55	938.46	977.93	977.68	946.11	924.48	924.81	926.87
15-Jan-03		938.28	935.94	953.04	955.74	961.26	972.32	972.40	939.13	939.30	975.35	975.35	945.69	927.15	927.06	939.62
14-Feb-03		936.61	934.86	951.25	955.19	959.96	968.82	969.15	938.05	938.21	971.93	971.77	944.02	925.32	925.56	938.45
14-Mar-03		933.94	928.86	952.17	955.44	959.63	967.57	967.57	932.63	938.63	971.02	971.02	942.86	923.15	923.64	936.45
17-Apr-03		936.69	932.44	950.00	954.69	959.09	967.03	967.32	937.13	937.42	970.27	970.35	942.44	923.40	923.89	938.37
13-May-03		936.94	932.27	950.50	954.69	958.88	967.65	967.82	937.96	937.88	970.77	970.60	943.77	922.98	928.47	938.79
16-Jun-03		930.44	918.69	950.75	955.03	958.88	965.15	965.24	936.13	936.63	969.77	969.68	940.69	921.32	921.89	932.87
15-Jul-03	926.89	927.53	921.69	950.42	954.94	957.63	964.82	965.15	937.38	936.88	970.10	970.02	942.19	921.40	921.56	927.62
18-Aug-03	924.06	925.53	923.02	948.17	954.24	956.17	959.90	959.70	934.88	936.42	969.35	969.23	940.94	921.07	921.56	927.87
15-Sep-03	922.89	925.94	925.36	950.00	954.86	959.30	963.99	964.15	935.55	935.71	969.27	969.18	940.69	920.98	921.14	926.29
13-Oct-03	922.56	925.69	923.94	948.00	954.36	956.63	963.74	963.99	934.63	935.63	969.27	969.02	940.44	920.40	920.22	925.79
14-Nov-03	926.97		926.07	945.17	952.78	955.88	959.61	959.74	935.46	936.67	971.23	971.52	941.90	923.53	923.60	929.45
15-Dec-03	929.47		931.44	950.04	951.94	953.46	961.03	960.78	936.46	936.59	971.60	971.48	943.11	923.94	924.02	932.29
15-Jan-04	936.06	939.36	936.69	951.08	955.61	960.05	972.07	971.99	939.63	939.55	974.10	974.02	945.77	926.32	926.14	941.04
13-Feb-04	935.72	939.03	936.69	951.25	955.19	959.88	969.57	969.49	938.13	938.05	972.35	972.27	944.69	925.32	925.22	940.70
16-Mar-04		938.53	936.69	951.67	955.28	959.96	970.32	970.40	939.55	939.63	973.35	973.35	945.11	925.65	926.31	941.70
14-Apr-04	932.56	935.11	933.77	953.17	956.11	959.09	961.07	960.99	936.55	936.67	972.35	972.14	941.94	923.61	923.56	935.37
17-May-04	927.56	931.61	931.02	950.67	954.94	958.71	961.24	961.15	937.55	938.63	970.35	970.77	941.61	920.90	921.22	932.87
16-Jun-04	927.39	928.44	926.02	950.50	954.78	957.46	964.99	965.07	937.80	938.38	970.10	969.85	941.19	921.65	921.06	930.04
17-Jul-04	923.31	927.28	927.69	949.00	954.53	956.63	964.40	964.57	936.63	938.38	969.52	969.35	940.77	919.65	920.81	928.45
16-Aug-04	922.81	924.36	924.61	946.92	953.36	955.96	963.82	963.99	934.71	935.71	968.85	968.77	940.52	921.32	921.14	
16-Sep-04	920.56	924.28	925.19	944.25	952.11	953.55	963.24	963.65	933.05	934.46	968.10	968.06	940.40	919.48	920.06	
15-Oct-04	921.81	923.53	924.77	943.38	951.03	953.01	958.99	958.82	935.63	936.21	971.18	971.02	940.27	922.48	922.39	924.54
16-Nov-04	926.56		928.11	941.46	950.86	952.96	964.57	964.90	936.63	938.34	968.56	968.52	940.94	921.07	921.02	929.08
15-Dec-04	929.56		931.27	947.50	954.53	958.63	966.28	966.65	937.26	938.21	969.98	970.02	943.27	921.57	922.22	
18-Jan-05	935.43		936.36	952.94	956.07	959.44	963.74	963.84	939.98	939.92	975.27	975.18	946.27	925.53	925.56	938.79
15-Feb-05	936.64	938.69	936.36	951.96	954.92	957.59	961.92	961.88	938.03	938.11	974.02	974.06	944.23	924.98	924.85	940.12
15-Mar-05	937.72	939.61	937.02	950.92	954.94	959.46	969.36	969.53	938.92	938.88	972.06	971.93	944.77	924.82	925.31	941.29
15-Apr-05	931.56	934.78	934.61	949.42							970.60	970.77		921.82	921.77	936.70
16-May-05	933.02	934.28	934.02	950.46	955.11	959.51	968.03	968.15	937.88	938.46	971.27	971.18	943.19	923.40	923.97	934.45
15-Jun-05	931.97	934.86	931.69	950.33	954.86	959.30	966.65	966.74	937.05	938.13	970.35	970.27	942.19	921.90	922.22	936.54
18-Jul-05	926.31	930.61	929.69	945.60							971.31	971.43	941.19	922.44	922.39	933.12
16-Aug-05	922.64	927.94	926.94	947.58	954.11	956.55	964.57	964.57	936.42	936.42	969.52	969.35	940.44			929.12
16-Sep-05		927.94	927.69	946.25	953.36	955.21	964.07	964.07	936.13	937.51	968.93	968.85	940.69	920.86	920.81	928.37
18-Oct-05	924.72	926.03		948.75	951.53	949.63	963.82	963.90	936.13	937.71	968.77	968.60	940.61	920.65	921.14	928.29
16-Nov-05	928.56	930.36		948.00	950.69	948.96	964.49	964.74	937.21	938.55	969.27	969.10	940.52	921.15	921.39	

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
15-Dec-05	930.27	931.94	931.42	945.67	954.38	956.96	965.70	965.70	937.34	938.30	968.60	968.48	941.19	920.40	921.72	932.87
18-Jan-06	938.35	939.57	6	951.17	955.32	960.30	963.24	963.24	940.13	940.21	974.18	974.23	945.61	925.57	925.56	943.12
16-Feb-06	935.81	937.53	6	951.25	955.36	960.30	969.40	969.49	939.21	939.13	972.35	972.35	944.11	924.48	925.31	939.62
15-Mar-06	939.47	941.86	6	953.04	956.19	961.05	972.82	972.86	940.63	940.55	975.18	975.06	945.94	928.36	928.81	943.45
19-Apr-06	940.72	943.78	6	955.58	956.44	959.80	973.82	973.82	941.21	941.21	976.52	976.52	945.86	928.90	929.72	945.87
26-May-06	934.89	937.86	6	951.25	955.36	959.63	967.82	967.78	938.30	938.21	971.35	971.27	942.77	923.40	924.14	939.12
16-Jun-06	930.89	934.28	6	950.54	955.03	958.71	966.32	966.36	937.38	937.67	970.43	970.35	941.73	921.98	922.22	936.45
17-Jul-06	927.06	929.78	927.02	949.92	955.03	957.13	965.15	965.24	936.21	937.63	970.02	970.10	941.27	922.15	921.64	932.54
17-Aug-06	921.56	925.69	928.19	943.58	950.28	949.71	960.74	960.90	931.96	931.88	969.52	969.43	937.02	919.98	917.64	926.37
15-Sep-06	920.89	926.69	927.02	948.83	951.53	950.71	963.90	963.90	935.71	937.30	968.60	968.60	939.94	916.73	918.89	928.54
16-Oct-06	918.89	928.11	927.69	943.83	950.53	952.96	963.82	963.99	936.13	937.96	968.77	968.77	940.32	922.98	923.22	6
15-Nov-06	927.81	929.61	929.44	942.67	950.99	953.13	963.24	963.24	937.30	937.21	974.18	974.14	943.57	924.48	924.52	6
14-Dec-06	929.39	930.94	930.61	939.92	951.69	953.63	964.65	964.32	937.46	938.71	969.10	968.98	940.77	924.40	924.43	6
17-Jan-07	923.14	931.11	930.36	943.17	951.86	957.46	964.90	960.24	936.21	936.05	970.02	969.77	936.77	921.82	921.72	6
15-Feb-07	930.47	932.86	926.94	950.08	955.24	959.55	962.90	963.03	937.88	937.63	972.35	966.35	6	922.98	923.22	6
15-Mar-07	932.22	928.36	926.69	950.38	954.94	959.55	962.82	962.74	937.13	937.76	972.27	972.06	937.52	923.57	923.14	6
16-Apr-07	920.31	924.19	922.19	942.92	954.69	954.96	960.07	960.15	943.55	943.50	964.85	965.10	935.36	916.57	915.72	6
15-May-07	923.56	924.86	927.94	946.08	948.53	953.88	965.32	965.24	935.46	936.05	970.18	970.18	941.02	921.82	921.64	6
15-Jun-07	914.97	920.11	921.11	941.31	948.57	950.88	960.90	960.40	928.96	930.30	969.14	968.77	937.02	915.57	913.97	6
16-Jul-07	919.39	924.36	919.36	940.25	948.19	950.13	958.15	958.07	929.30	929.55	962.52	962.52	936.44	919.15	918.81	6
14-Aug-07	915.14	920.36	919.61	945.00	953.03	955.13	957.82	958.15	931.63	934.63	960.93	960.85	933.11	917.57	920.72	6
14-Sep-07	915.39	917.86	917.77	943.42	952.61	954.30	957.40	957.57	930.63	933.63	969.02	969.18	936.11	918.82	918.81	6
15-Oct-07	913.89	917.65	917.11	943.25	948.78	950.21	963.61	963.82	931.63	935.48	962.18	961.85	938.61	917.15	916.47	6
15-Nov-07	917.39	919.28	921.61	942.75	951.28	953.63	959.07	961.82	934.13	936.30	966.68	966.52	936.27	919.98	919.64	6
14-Dec-07	921.81	923.53	924.27	940.25	948.24	949.96	963.82	963.99	935.51	937.13	968.10	968.14	931.61	917.15	920.14	6
15-Jan-08	923.14	925.94	926.27	944.79	951.65	956.13	964.90	965.38	930.63	930.69	968.60	968.52	943.48	919.75	920.39	6
15-Feb-08	929.56	932.36	930.15	950.50	955.32	952.13	970.65	970.82	937.42	937.80	969.52	969.25	945.11	924.03	921.39	6
14-Mar-08	930.64	933.69	930.86	947.08	951.86	956.38	965.57	965.65	937.96	934.80	968.68	971.98	940.27	919.90	920.72	6
15-Apr-08	926.89	934.53	929.19	946.33	951.53	955.13	962.82	962.99	932.38	932.05	967.18	967.18	938.23	918.48	919.47	6
16-May-08	924.89	929.28	926.11	949.75	954.69	959.63	964.57	964.90	937.96	937.71	973.18	973.39	940.19	925.19	924.89	926.29
16-Jun-08	915.89	924.36	922.19	946.17	951.19	953.71	960.74	960.70	930.80	931.26	965.73	965.60	937.65	916.40	919.35	920.37
15-Jul-08	910.22	913.53	916.86	945.21	951.11	953.26	959.11	960.24	929.38	931.46	965.14	965.02	936.86	917.23	915.97	913.12
15-Aug-08	908.64	910.36	6	942.83	950.69	952.34	959.57	959.74	927.63	929.96	964.52	964.43	936.61	915.57	916.85	909.54
19-Sep-08	904.97	906.94	910.77	944.17	952.28	954.05	962.90	962.90	928.63	932.13	967.35	967.18	939.52	919.15	920.06	908.79
15-Oct-08	908.39	908.94	6	942.25	951.28	953.17	963.15	963.36	928.80	931.63	967.27	967.18	939.44	919.65	920.06	910.04
13-Nov-08	915.31	915.53	6	939.00	951.19	953.13	963.99	963.90	933.55	936.63	967.85	967.77	940.44	920.65	921.14	916.45
15-Dec-08	917.72	919.28	6	938.67	951.03	952.63	963.82	963.82	934.63	937.38	968.02	967.68	940.36	920.69	921.22	918.37
15-Jan-09	922.31	923.78	925.11	944.92	953.78	955.96	964.57	964.74	935.13	937.34	968.68	968.60	940.86	920.98	921.64	923.54
17-Feb-09	920.39	921.86	926.19	949.58	956.78	960.46	966.74	966.90	936.96	939.88	969.60	969.43	943.86	921.48	922.22	921.04
13-Mar-09	929.31	930.86	931.86	950.92	955.15	959.80	971.03	971.32	937.30	938.09	972.85	972.68	945.44	923.40	924.39	929.91
14-Apr-09	925.97	929.61	928.94	949.83	954.94	959.05	967.32	967.24	936.30	938.46	971.02	970.77	942.52	921.82	922.64	929.45
16-May-09	925.56	929.11	928.86	949.83	954.69	958.21	966.24	966.15	935.71	937.30	970.10	970.18	941.61	921.73	922.39	930.62
15-Jun-09	925.22	927.44	926.52	949.83	952.61	955.30	963.82	964.74	934.96	936.96	969.68	969.52	941.11	919.65	921.14	927.20

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
15-Jul-09	919.22		921.69	949.33	954.53	956.63	964.07	964.24	933.96	935.71	978.18	978.02	940.52	920.32	921.56	922.54
17-Aug-09	914.14		918.19	946.75	954.61	955.63	963.24	963.40	931.71	934.05	968.35	968.43	939.94	919.07	921.06	916.79
14-Sep-09	912.81		916.27	944.33	952.78	954.21	962.99	963.07	930.30	932.96	968.93	968.77	939.61	919.23	920.56	914.70
15-Oct-09	914.39		917.02	944.00	952.78	954.55	964.07	964.15	932.46	936.80	968.02	967.93	940.69	920.07	920.72	915.79
16-Nov-09	920.39		924.19	943.00	949.94	952.96	963.57	963.82	934.46	936.84	967.93	967.85	940.19	920.98	921.06	921.54
16-Dec-09	922.47		925.61	942.50	951.44	953.38	964.40	964.32	935.38	937.30	966.43	966.43	940.69	920.82	921.31	924.45
15-Jan-10	925.47	927.11	927.94	946.08	954.57	958.63	965.57	965.99	936.13	937.63	969.14	969.18	942.27	921.15	921.81	927.37
17-Feb-10	935.06	937.36	935.27	950.75	955.19	959.96	970.82	971.07	938.05	938.21	972.93	972.93	945.27	923.82	925.06	938.41
15-Mar-10	936.47	938.53	936.69	951.00	955.36	960.05	970.57	970.57	938.55	938.55	972.43	972.52	945.11	924.32	925.39	940.29
15-Apr-10	933.97	936.19	935.44	951.08	955.28	959.80	969.24	969.90	938.63	938.88	971.43	971.43	944.94	924.15	924.72	938.50
20-May-10	931.97	935.53	933.19	949.92	954.94	958.80	966.65	966.74	936.05	937.63	975.10	974.60	940.94	921.07	922.56	936.87
15-Jun-10	929.31	934.11	932.02	949.75	954.61	957.96	965.65	965.57	936.21	937.21	973.10	973.27	941.44	921.40	922.81	933.37
15-Jul-10	925.97	926.86	927.02	949.46	954.36	956.71	964.15	964.15	935.26	937.05	969.35	969.27	940.69	921.57	919.64	928.70
17-Aug-10	921.81	923.86	925.61	947.25	954.28	955.96	963.40	963.32	936.55	935.55	8	8	940.44	919.48	920.31	924.79
15-Sep-10	920.64	920.69	923.11	945.71	953.19	954.96	962.90	962.82	933.38	935.05	8	8	939.94	919.98	920.56	922.62
13-Oct-10	919.14	920.69	919.19	944.63	952.11	953.88	962.74	962.74	932.46	934.63	9	9	939.69	919.65	920.31	921.20
15-Nov-10	924.81	926.61	927.19	943.83	951.44	953.38	963.90	963.99	935.30	936.80	968.27	968.35	940.69	920.73	921.47	926.70
16-Dec-10	927.72	929.44	929.61	947.67	954.53	958.63	965.40	965.32	936.21	937.38	969.18	969.06	941.77	921.40	922.31	929.87
14-Jan-11	933.39	935.61	934.11	950.08	955.03	959.46	970.07	970.15	937.55	937.96	972.35	972.43	944.77	923.32	924.47	937.04
11-Feb-11	932.89	935.53	933.36	949.58	954.69	958.88	967.32	967.57	936.80	937.46	970.77	970.73	942.36	922.15	923.31	936.45
16-Mar-11	936.06	939.07	936.77	951.25	955.65	960.13	970.36	970.40	938.71	938.88	972.52	972.35	945.27	924.57	925.81	940.87
18-Apr-11	936.64	940.03	936.27	950.83	955.03	959.46	969.82	969.90	939.63	939.71	972.85	972.60	944.69	924.65	926.81	942.37
16-May-11	932.56	935.19	932.69	950.00	954.78	958.30	966.49	966.65	936.71	937.38	970.60	970.52	941.86	921.90	925.22	936.37
15-Jun-11	931.31	934.69	931.44	949.75	954.61	957.96	965.90	965.90	936.55	937.21	970.02	970.02	941.69	921.98	924.14	936.45
15-Jul-11	928.47	930.19	929.02	949.46	954.36	956.71	964.49	964.49	935.63	937.05	969.56	969.52	940.69	921.32	923.35	933.29
15-Aug-11	926.14	927.53	926.61	947.08	953.94	955.80	963.82	963.99	934.96	936.63	973.27	973.85	940.27	921.07	922.31	930.62
16-Sep-11	922.39	927.44	927.19	945.50	952.78	954.46	963.15	963.24	934.46	936.21	968.52	968.35	939.94	919.98	921.72	927.87
20-Oct-11	927.06	929.36	928.52	944.25	951.44	953.30	963.15	963.32	935.17	936.63	968.27	968.31	940.11	921.07	921.81	929.95
15-Nov-11	928.47	930.36	929.86	943.42	951.03	952.88	963.24	963.57	935.38	936.71	8	8	940.11	920.82	921.22	931.20
15-Dec-11	928.97	931.11	930.44	943.04	950.86	952.55	963.40	963.57	935.63	936.63	8	8	940.44	920.90	921.31	931.87
17-Jan-12	929.06	931.28	930.36	942.17	950.65	952.38	963.07	963.15	935.63	936.71	8	8	940.19	920.82	921.31	932.20
15-Feb-12	929.89		930.98	947.92	954.44	958.42	965.65	966.11	936.01	937.13	969.52	969.43	941.36	921.23	922.06	933.20
15-Mar-12	928.31	929.44	930.36	950.83	955.78	960.05	967.15	967.65	937.80	939.30	970.68	970.68	944.02	921.98	923.06	929.54
16-Apr-12	933.39	935.69	933.77	951.17	956.19	960.38	970.32	970.49	937.88	938.30	972.43	972.35	945.02	923.48	924.81	936.79
16-May-12	929.47	932.61	930.36	949.50	954.69	958.38	966.65	967.15	936.38	937.38	970.85	969.85	941.94	921.57	923.35	933.95
14-Jun-12	926.64	930.36	928.02	949.38	954.36	957.21	964.65	964.70	935.55	937.05	969.77	969.77	940.86	921.23	922.14	931.20
16-Jul-12	920.97	925.03	920.77	947.42	954.28	956.26	963.57	963.57	933.80	936.46	968.93	969.02	940.27	920.32	921.56	925.62
14-Aug-12	918.89	918.78	924.02	945.25	953.69	955.46	963.15	963.24	932.05	931.80	968.43	968.43	939.86	919.98	920.97	920.87
14-Sep-12	915.31	916.86	916.61	948.75	952.19	949.30	962.82	963.07	930.46	933.05	968.18	968.02	939.44	920.15	920.89	917.54
18-Oct-12	913.31	914.86	908.48	941.75	950.94	952.80	962.65	962.82	928.80	932.05	967.77	967.77	939.19	920.32	920.72	915.04
14-Nov-12	918.31	918.94	919.27	939.42	950.69	952.38	962.74	963.15	930.63	932.80	967.77	967.52	939.19	920.32	920.97	919.20
13-Dec-12	928.56	928.36	929.65	949.42	955.78	959.05	970.99	970.74	936.63	937.80	972.68	972.27	944.61	924.07	925.31	928.12
15-Jan-13	935.64	933.94	934.86	949.92	954.94	959.55	969.40	969.90	937.63	938.05	972.35	972.35	944.36	922.98	926.14	6

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵	
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1	
12-Feb-13	935.06	936.69	934.36	949.33	954.61	958.96	966.65	966.90	937.13	937.46	970.52	970.60	942.27	922.32	924.56	6	
12-Mar-13	932.97	935.44	932.44	949.42	954.61	958.80	965.90	965.99	936.80	937.46	970.27	970.10	941.69	922.07	923.64	6	
15-Apr-13	930.56	931.19	931.11	949.25	954.36	958.05	965.57	965.65	937.13	936.30	969.85	969.85	940.27	921.73	922.97	931.04	
14-May-13	926.39	926.69	926.69	948.08	954.19	956.63	964.40	964.65	935.30	936.71	969.43	969.35	940.69	921.65	922.81	928.37	
13-Jun-13	923.39	925.36	926.19	946.42	953.86	956.63	963.74	963.99	934.63	936.46	968.93	968.85	940.61	920.65	921.97	925.04	
15-Jul-13	920.56	922.69	922.69	945.67	953.36	955.13	963.49	963.15	933.38	935.13	968.85	968.77	939.86	920.98	921.89	923.37	
15-Aug-13	913.31	915.11	912.69	944.75	952.28	954.05	962.82	962.99	930.21	932.80	968.02	968.10	939.36	920.23	921.56	916.45	
16-Sep-13	909.72	907.61	912.19	942.42	950.86	952.63	962.40	963.65	928.30	931.38	967.52	967.52	938.94	920.65	920.97	909.29	
15-Oct-13	907.22	907.69	911.02	938.00	950.44	952.21	962.40	962.82	927.38	930.55	967.52	967.43	938.69	921.65	921.22	906.95	
14-Nov-13	910.06	911.53	912.44	933.17	950.28	951.88	962.49	962.82	927.05	929.80	967.52	967.52	938.61	920.65	921.14	911.95	
16-Dec-13	910.56	913.36	914.77	930.92	950.28	951.71	962.74	962.74	931.96	935.71	967.35	967.68	938.77	920.15	920.89	913.37	
15-Jan-14	914.14	917.19	919.52	931.00	950.36	951.71	962.82	963.24	933.63	941.30	967.93	967.98	939.36	919.98	920.64	917.29	
11-Feb-14	916.31	917.61	921.86	942.83	954.36	958.21	964.90	965.32	937.21	937.88	968.77	968.60	942.61	921.57	922.31	916.12	
13-Mar-14	920.06	921.36	924.44	948.42	954.74	958.63	966.40	966.74	935.55	937.46	969.43	969.43	942.94	922.15	923.31	919.62	
14-Apr-14	921.06	923.69	926.52	949.17	954.69	958.80	966.99	967.07	935.38	937.13	970.35	969.52	946.52	921.82	922.72	927.70	
13-May-14		922.86	924.36	948.92	954.36	957.38	965.32	965.24	934.63	936.63		8	8	940.86	922.15	921.22	922.37
16-Jun-14		920.53	922.94	948.17	954.36	957.55	964.15	963.99	936.96	937.38	968.77	968.68	940.36	920.57	921.56	921.12	
15-Jul-14	913.72		920.69	945.88	954.11	955.80	963.07	963.07	930.96	933.21	968.10	968.93	939.69	918.73	920.72	915.62	
29-Aug-14	910.72	912.69	916.44	945.00	953.53	955.21	962.65	962.74	935.13	931.96	967.52	967.43	939.19	917.07	919.39	913.70	
15-Sep-14	915.81	917.11	918.36	944.25	952.69	954.46	962.32	962.40	928.88	930.71	967.68	967.68	938.94	915.57	918.14	916.95	
13-Oct-14	915.97	916.53	917.52	943.67	951.86	953.63	962.32	962.40	928.13	929.96	966.85	966.85	938.69	917.07	916.31	917.70	
5-Nov-14	917.22	918.28	919.11	943.00	951.40	953.05	962.49	962.49	928.13	929.80	966.93	966.85	938.61	916.23	916.64	918.95	
9-Dec-14	919.81	921.69	920.86	945.75	954.86	958.63	964.40	964.82	934.63	938.80	967.68	967.77	942.11	919.07	919.06	919.79	
13-Jan-15	930.64	932.44	931.86	949.42	954.78	958.96	968.07	968.07	936.30	937.21	971.60	971.27	943.27	922.07	924.89	932.95	
11-Feb-15	930.97	933.36	932.02	949.33	954.69	958.88	966.32	966.49	936.21	936.96	970.27	970.35	941.77	921.57	923.97	934.29	
9-Mar-15	932.72	935.03	934.27	949.92	954.86	959.13	968.40	968.57	937.38	937.63	971.77	971.77	943.61	922.57	924.89	937.54	
7-Apr-15	930.31	932.36	931.77	949.50	954.53	958.05	965.49	965.57	936.21	936.80	970.10	970.02	941.44	921.23	923.14	934.54	
4-May-15	928.97	930.69	930.19	949.42	954.36	957.21	964.15	964.65	935.55	936.63	970.35	970.35	941.69	920.15	921.81	930.54	
5-Jun-15	927.81	929.53	929.27	948.00	954.36	956.46	963.99	964.15	935.30	936.21	969.02	968.85	940.52	920.90	921.64	929.95	
7-Jul-15	926.64	927.61	927.02	946.58	953.69	955.55	963.15	963.40	933.80	933.71	968.35	968.18	939.86	919.82	919.31	930.12	
11-Aug-15	923.22	926.28	925.36	945.17	952.44	954.21	962.90	962.99	931.88	932.88	967.93	967.68	939.44	918.32	918.89	927.20	
9-Sep-15		925.61	924.27	949.08	951.11	953.88	962.65	962.74	930.88	931.80	967.52	967.35	940.02	917.07	918.81	925.95	
20-Oct-15	923.47		10	942.25	950.44	952.21	963.24	963.15	930.38	931.30		10	10	939.19	917.40	913.89	10
5-Nov-15	923.14	924.94	10	940.75	950.28	951.80	962.99	962.99	930.13	931.05		10	10	939.11	917.57	918.31	10
7-Dec-15	923.97	925.53	925.69	938.33	950.44	951.88	962.90	963.07	934.46	936.46	967.35	967.52	939.52	918.89	918.89	10	
7-Jan-16	927.06	928.53	928.94	942.42	954.78	957.63	964.32	964.32	936.38	937.71	968.35	968.52	941.36	922.15	921.22	10	
18-Feb-16	932.22	933.94	933.11	949.33	954.78	958.88	968.15	968.32	937.05	937.55	971.27	971.35	943.44	922.48	924.47	934.87	
3-Mar-16	929.56	931.78	932.19	949.25	954.78	958.88	966.65	966.90	936.55	937.38	970.43	970.52	942.27	922.15	923.64	932.87	
5-Apr-16	934.64	935.86	935.02	950.33	955.19	959.80	970.07	970.07	937.80	937.88	973.60	973.68	944.36	923.65	923.47	936.70	
18-May-16	933.31	935.03	932.27	949.92	954.89	958.71	965.99	966.15	936.80	937.55	970.43	970.52	942.02	922.15	925.14	936.20	
14-Jun-16	930.22	931.11	930.86	949.75	954.69	957.88	964.32	964.40	937.30	937.21	971.02	971.10	941.19	920.73	923.47	931.20	
14-Jul-16	917.14	928.19	927.69	948.83	954.61	957.13	963.57	963.82	936.88	935.30	969.18	969.27	940.69	920.57	922.47	926.79	
9-Aug-16	923.39	928.44	927.19	947.00	954.44	956.38	963.24	963.07	935.05	936.71	969.02	968.93	940.44	920.23	922.14	929.29	
22-Sep-16	927.36	928.86	927.36	945.75	953.44	955.21	962.65	962.99	936.63	935.05	968.43	968.60	940.11	921.23	920.06	929.12	

TABLE 2

HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN

WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
18-Oct-16	927.64	929.28	929.44	944.67	952.24	954.42	962.99	963.24	935.55	936.88	968.43	968.35	940.02	920.73	920.97	930.12
15-Nov-16	929.39	930.94	930.36	948.75	954.53	957.88	964.74	965.15	937.21	936.13	969.27	969.35	941.44	921.40	922.72	931.54
21-Dec-16	931.22	934.03	933.19	950.58	955.61	958.88	969.82	970.24	936.30	937.13	973.35	973.43	945.44	924.98	925.64	932.62
31-Jan-17	935.99	927.28	930.60 ¹¹	953.33	956.78	960.96	974.57	974.82	942.63	942.55	980.27	980.43	948.52	930.90	930.39	945.46 ¹¹
14-Feb-17	931.58	946.53	933.39	952.75	956.19	960.80	973.82	973.90	942.80	941.88	978.10	978.10	947.61	928.90	930.47	948.29
14-Mar-17	929.20	925.43	934.52	951.42	954.44	959.96	971.07	971.07	940.13	939.55	973.35	973.43	945.61	925.65	927.14	944.37
21-Apr-17	931.04	941.03	935.44	951.00	955.61	959.63	970.40	970.15	935.88	935.80	972.10	972.02	945.44	925.23	926.22	941.45
16-May-17	933.10	939.11	935.44	950.25	955.11	958.88	967.40	967.65	936.88	937.05	970.85	970.77	942.61	923.15	924.39	939.70
20-Jun-17	932.05	936.11	932.19	949.92	954.94	957.88	965.57	965.65	936.55	937.13	973.10	973.02	941.52	922.15	923.14	936.62
31-Jul-17	929.75	931.86	935.62	946.17	952.94	954.88	963.49	963.74	936.63	935.63	969.10	969.10	940.69	921.15	922.14	933.29
16-Aug-17	925.60	931.11	934.53	945.25	952.19	954.13	963.15	963.40	935.21	935.13	968.85	968.93	940.69	921.32	922.14	932.62
8-Sep-17	921.88	930.11	934.13	944.25	951.36	953.30	962.99	963.24	935.21	936.45	968.60	968.77	940.69	921.40	922.39	928.54
25-Oct-17	926.97	929.86	925.72	942.25	950.69	952.55	962.65	962.99	935.30	935.71	968.18	968.35	940.27	921.90	920.81	929.04
20-Nov-17	929.39	931.94	931.69	940.92	950.94	952.63	964.07	963.82	936.13	937.96	968.68	968.60	937.44	921.48	922.14	931.62
21-Dec-17	930.14	931.36	931.30	947.00	950.53	945.71	963.65	964.07	936.55	935.80	968.35	968.60	940.61	922.15	921.47	932.62
1-Jan-18																
19-Feb-18	930.89	932.78	929.52	951.75	954.86	958.96	965.07	965.07	939.13	937.38	970.35	970.02	941.52	921.73	922.64	934.29
16-Mar-18	932.31	933.78	932.44	951.67	954.11	955.63	966.82	966.82	940.63	939.30	973.35	972.85	942.02	923.15	922.64	934.79
16-Apr-28	922.63	935.36	933.35	950.08	955.28	959.38	968.82	968.82	937.63	937.96	971.35	971.35	943.69	922.82	923.72	935.87
14-May-18	928.41	931.46	934.40	949.75	954.36	958.13	966.65	966.15	937.46	937.30	970.27	970.35	941.94	922.48	921.47	932.87
14-Jun-18	926.08	937.88	928.04	948.08	954.69	957.13	964.74	964.74	935.71	936.71	969.43	969.68	941.27	921.73	922.06	929.45
17-Jul-18	925.25	930.19	924.98	946.33	954.03	956.55	963.40	963.40	945.55	934.80	968.52	968.93	940.61	921.07	921.72	926.45
15-Aug-18	921.58	930.43	935.62	946.42	953.69	956.21	962.82	963.32	936.38	934.63	968.35	968.60	940.44	920.15	921.64	925.04
19-Sep-18	925.14	926.36	925.77	945.00	953.44	955.13	962.74	962.82	934.63	936.30	968.27	968.35	939.86	921.15	920.81	927.37
16-Oct-18	926.97	928.44	928.02	945.25	951.94	953.71	962.40	962.90	935.21	936.71	968.02	968.18	939.77	920.98	921.14	929.79
20-Nov-18	927.14	930.86	928.61	943.25	951.19	953.13	962.49	962.82	935.63	936.96	967.85	968.35	940.19	921.07	921.31	930.62
21-Dec-18	929.64	933.36	930.19	943.17	952.36	954.88	963.82	964.32	937.30	936.63	968.85	968.68	940.86	922.15	922.64	932.29
19-Jan-19	931.14	932.44	931.11	948.33	955.03	956.38	966.65	965.99	937.63	938.30	970.27	970.35	943.94	923.23	923.97	933.79
26-Feb-19	940.06	942.44	939.19	952.08	956.03	960.55	973.32	973.82	940.96	940.55	977.02	977.27	947.19	928.40	928.56	944.12
21-Mar-19	940.39	944.36	937.19	951.67	955.86	960.63	972.32	971.82	940.21	940.13	973.85	973.85	943.27	926.15	927.14	944.87
17-Apr-19	938.56	940.36	937.61	950.67	955.11	959.55	969.82	969.90	939.13	938.80	971.60	971.93	944.69	925.23	926.72	942.62
30-May-19	934.89	936.53	934.52	953.83	955.11	955.55	967.40	967.82	938.55	938.21	970.43	970.60	943.77	924.32	924.64	937.04
26-Jun-19	929.89	931.86	931.36	949.42	954.78	957.30	965.40	965.49	936.21	936.80	969.85	969.85	941.86	923.23	922.14	932.62
11-Jul-19	928.64	933.36	926.77	948.42	954.69	956.71	964.15	964.65	935.80	936.71	969.93	970.10	941.69	921.98	922.72	930.20
13-Aug-19	927.06	930.19	928.02	947.17	953.78	955.63	963.49	963.65	935.46	935.30	968.93	968.93	941.02	922.32	921.31	929.87
19-Sep-19	926.89	929.94	927.77	945.08	952.19	953.80	962.82	962.90	936.71	935.55	968.18	968.43	940.69	921.23	920.72	930.45
22-Oct-19	927.14	930.61	928.52	943.33	950.86	OOS	962.82	962.99	936.71	935.96	967.93	968.35	940.69	920.90	921.22	931.95
18-Nov-19	926.47	929.53	928.94	943.17	950.61	OOS	962.90	963.15	936.38	937.88	968.77	968.93	940.69	921.90	921.31	930.20
17-Dec-19	932.06	933.78	932.36	949.17	955.03	959.13	966.32	966.49	937.96	937.88	OOS	OOS	944.44	923.07	924.06	934.79
29-Jan-20	933.72	936.78	933.19	949.75	955.36	959.13	967.82	967.90	937.63	937.80	OOS	OOS	942.77	923.65	923.06	937.20
20-Feb-20	932.81	935.03	933.02	949.33	954.94	958.96	966.82	966.82	937.46	937.13	970.10	970.27	942.19	923.23	922.22	937.45
18-Mar-20		933.61	932.69	941.17	955.11	958.80	965.99	966.15	936.46	937.80	OOS	OOS	941.44	OOS	OOS	935.95
24-Apr-20	929.72	933.94	930.44	949.17	954.53	957.55	965.32	965.49	936.13	936.80	OOS	OOS	940.77	OOS	OOS	934.87
20-May-20		933.86	930.11	951.08	954.19	951.71	964.99	965.15	936.71	937.63	OOS	OOS	940.69	922.65	922.31	933.87
16-Jun-20	926.81	929.53	927.44	949.42	952.61	950.38	963.99	964.40	935.30	936.30	OOS	OOS	940.61	922.73	921.72	929.70
16-Jul-20	922.47	924.36	925.44	948.25	951.53	949.21	962.90	962.90	935.30	936.96	OOS	OOS	940.27	922.57	921.47	926.79
13-Aug-20	921.81	922.03	923.61	943.33	951.36	953.46	962.82	963.15	933.88	933.46	OOS	OOS	940.11	921.73	919.31	924.12
16-Sep-20	919.47	921.53	922.19	940.33	951.03	952.80	962.57	962.90	932.46	934.21	OOS	OOS	939.94	920.82	919.14	922.04
15-Oct-20	918.81	920.36	921.52	938.33	950.69	952.21	962.49	962.07	933.55	931.80	OOS	OOS	939.61	919.73	916.81	920.62

TABLE 2

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
COYOTE VALLEY GROUNDWATER BASIN MONITORING PLAN**

**WATER SURFACE EVELVATIONS
(all amounts in feet above mean sea level)**

Date	Grange Road Wells ¹			Treatment Plant Wells ²			Spyglass #7 ³		Grange Road ³		American Rock ³		Golf Course	Luchetti ^{3, 4}		Ag Well ⁵
	GR 1 ⁷	GR 2	GR 3	TP 1	TP 2	TP 3	MW 1A	MW 1B	MW 2A	MW 2B	MW 3A	MW 3B	MW 4	MW 5A	MW 5B	AG 1
17-Nov-20	919.22	921.03	922.27	938.50	950.78	952.21	962.07	962.49	933.80	936.05	OOS	OOS	939.69	919.40	919.39	920.87
15-Dec-20	924.06	925.53	926.86	947.50	951.28	946.13	962.74	963.07	935.71	937.63	OOS	OOS	939.69	921.48	921.06	926.12
15-Jan-21	926.64	929.44	927.86	941.33	950.69	952.46	962.74	963.32	935.55	936.80	OOS	OOS	940.19	920.32	920.72	929.12
17-Feb-21	927.47	931.28	929.77	944.08	952.44	954.38	963.90	964.32	936.55	937.21	OOS	OOS	940.86	922.48	921.72	931.20
15-Mar-21	927.39	931.28	930.69	944.17	952.44	953.96	963.82	962.90	937.38	936.05	OOS	OOS	940.77	921.15	922.06	931.54
22-Apr-21	924.06	924.11	926.02	950.25	953.78	950.88	963.82	963.99	935.71	937.46	OOS	OOS	940.86	921.15	921.39	925.37
14-May-21	923.89	926.36	926.36	946.17	954.28	956.30	962.74	963.74	934.55	937.21	OOS	OOS	940.52	922.90	921.89	924.45
17-Jun-21	922.72	924.69	923.77	945.42	953.78	955.30	961.99	962.15	933.71	935.46	OOS	OOS	939.27	920.90	919.31	925.04
16-Jul-21	919.89	922.86	911.77	945.42	952.03	953.63	962.07	961.82	933.63	932.13	OOS	OOS	939.69	917.23	920.31	922.12
17-Aug-21	913.06	915.36	916.94	944.25	950.69	947.63	960.32	961.32	929.96	931.96	OOS	OOS	939.36	919.32	915.31	915.70
15-Sep-21	915.89	916.03	918.52	938.25	949.78	951.96	961.65	961.82	926.55	931.63	OOS	OOS	939.19	919.07	913.56	916.87
14-Oct-21	914.56	914.11	916.36	946.33	950.53	940.46	961.24	961.49	928.38	930.21	OOS	OOS	939.02	914.82	918.06	916.29
12-Nov-21	921.64	922.78	925.44	954.00	955.44	954.30	965.57	966.24	936.30	938.05	OOS	OOS	942.94	922.15	921.64	922.70
15-Dec-21	926.14	929.03	936.61	950.00	956.11	960.05	966.40	966.99	938.96	937.38	OOS	OOS	943.52	921.73	922.56	927.62
13-Jan-22	931.81	934.36	933.11	950.92	955.69	960.21	970.07	970.32	938.38	938.13	OOS	OOS	950.44	924.73	923.64	934.29
15-Feb-22	931.89	934.86	932.44	950.25	955.44	959.46	967.15	967.49	936.96	937.55	OOS	OOS	941.19	923.15	922.39	934.79
15-Mar-22	931.31	934.19	932.02	950.17	955.19	958.63	965.57	966.15	936.63	937.46	OOS	OOS	941.69	921.82	922.64	934.37
11-Apr-22	926.72	929.36	929.19	949.50	955.11	957.96	965.49	965.74	936.13	942.21	969.77	970.10	941.36	922.48	921.14	929.29
11-May-22	925.56	928.11	928.11	947.92	955.11	957.88	965.15	965.40	936.13	937.30	OOS	OOS	941.44	922.65	921.72	928.62
8-Jun-22	922.64	926.36	925.94	951.75	954.61	957.13	964.57	964.65	935.63	937.13	OOS	OOS	941.19	921.48	920.97	925.37
5-Jul-22	921.47	922.36	924.52	950.08	953.61	960.55	963.07	962.74	934.38	935.96	OOS	OOS	940.44	920.65	919.72	923.54
8-Aug-22	918.89	919.94	921.94	945.00	952.44	954.55	962.74	963.07	933.05	934.88	OOS	OOS	940.02	918.90	919.81	920.20
13-Sep-22	917.56	918.78	920.69	945.42	950.78	952.46	962.15	962.49	932.38	930.55	OOS	OOS	939.27	918.73	918.47	918.29
11-Oct-22	916.89	919.19	920.11	945.58	951.11	952.55	962.32	962.32	932.63	930.63	OOS	OOS	939.44	918.65	918.72	917.45
7-Nov-22	916.31	918.11	919.27	939.25	951.19	952.96	962.65	963.07	931.55	933.63	OOS	OOS	939.61	919.98	919.72	916.54
7-Dec-22	918.31	920.19	922.44	937.83	951.28	952.96	963.24	963.40	934.05	934.46	OOS	OOS	940.94	919.98	919.72	918.87

Notes:

1. Grange Road Well #3 (GR 3) well casing shifted after installation resulting in the inability to make measurement in some months.
2. Treatment Plant wells were installed in October 1994.
3. A = Deeper Completion, B = Shallow Completion
4. Luchetti Monitoring Well was installed in May 1998.
5. Agricultural Well rehabilitated in 1997.
6. Pump out of service.
7. Grange Road Well #1 failed in 2002. Grange Road Well #4 was installed in 2003 at the same location to replace it.
8. Data is not available.
9. Measurement made incorrectly and excluded from the record.
10. Valley Fire damaged pumps
11. SWRCB new measurement requirement - hourly data logging
12. Static measuring tool (solenus) failure

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2021-2022

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	
3	0.00	0.01	0.00	0.51	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.30	0.00	0.63	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.24	0.02	0.00	0.00	
6	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	
7	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	
9	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
10	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	2.02	0.00	0.00	0.01	0.36	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.02	0.00	0.01	0.00	0.75	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	2.20	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
18	0.10	0.00	0.00	0.00	0.00	0.02	0.42	0.00	0.00	0.00	0.00	0.30	
19	0.30	0.21	0.02	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	1.32	
20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	
21	0.42	0.00	0.06	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.06	
22	2.10	0.00	1.23	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.03	
23	0.20	0.00	0.51	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	4.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	6.42	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.04	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.01	0.00	0.30	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.01	0.00	0.00	0.00		0.03	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.01	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.02		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	14.45	2.35	11.61	1.60	0.06	0.87	3.40	0.15	0.26	0.02	0.03	1.95	36.75
Average	0.47	0.08	0.37	0.05	0.00	0.03	0.11	0.00	0.01	0.00	0.00	0.07	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	6.42	1.50	2.20	0.63	0.03	0.75	1.02	0.08	0.24	0.02	0.02	1.32	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2020-2021													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.10	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.10	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	1.44	0.30	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.20	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.60	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.15	0.90	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.10	0.06	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.08
10	0.01	0.00	0.00	0.20	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	0.00	0.05	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.70	0.00	0.60	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.70	0.40	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.45	0.00	0.30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.84	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.15	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	1.23	0.00	0.00	0.05	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.07
19	0.00	0.00	0.00	0.00	0.20	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.03	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.93	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.06	1.90	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
31	0.00		0.00	0.00		0.00		0.00		0.00			
Total	0.01	2.09	3.60	7.34	4.31	3.35	0.35	0.02	0.00	0.00	0.00	0.16	21.23
Average	0.00	0.07	0.12	0.24	0.15	0.11	0.01	0.00	0.00	0.00	0.00	0.01	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.01	1.23	0.93	1.90	1.80	0.67	0.30	0.02	0.00	0.00	0.00	0.08	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2019-2020

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	3.10	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.90	0.00	0.03	0.03	0.00	0.01	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.40	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	2.10	0.36	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.60	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.25	0.10	0.00	0.00	0.12	0.69	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.60	0.00	0.14	0.00	0.03	0.02	0.00	0.00	0.00	
15	0.00	0.00	0.30	0.15	0.00	0.69	0.00	0.01	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	1.05	0.00	0.18	0.00	0.03	0.00	0.00	0.04	0.00	
17	0.00	0.00	0.00	0.12	0.00	0.06	0.00	0.35	0.00	0.00	0.03	0.00	
18	0.00	0.00	0.80	0.62	0.00	0.02	0.00	1.11	0.01	0.00	0.00	0.00	
19	0.00	0.00	0.90	0.08	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.02	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	-	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.10	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.40	0.08	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.78	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.30	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.60	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.30	0.10	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.20	1.60	0.00		0.08	0.00	0.03	0.00	0.00	0.00	0.00	
31	0.00		0.00	0.00		0.00		0.05		0.00	0.00		
Total	0.00	1.50	12.97	7.16	0.05	2.34	2.31	2.82	0.03	0.00	0.07	0.00	29.25
Average	0.00	0.05	0.43	0.23	0.00	0.08	0.08	0.09	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.00	1.30	3.10	1.20	0.03	0.69	1.20	1.11	0.02	0.00	0.04	0.00	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2018-2019

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.72	0.00	0.35	0.00	0.01	0.06	0.25	0.00	0.00	0.00	0.00	0.00	
2	0.30	0.00	0.05	0.00	2.00	0.03	0.20	0.00	0.00	0.00	0.00	0.00	
3	0.02	0.00	0.00	0.00	0.80	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.90	0.06	0.70	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.38	0.25	0.60	0.08	0.60	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.10	1.25	0.10	1.70	0.40	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.10	2.40	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.35	0.00	0.01	0.30	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.01	1.35	0.60	0.06	0.30	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.02	0.06	0.01	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
13	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.45	2.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.36	0.25	0.01	0.00	0.00	2.40	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.36	1.41	0.00	0.00	0.30	1.36	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.42	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.01	0.60	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.04
19	0.00	0.00	0.02	0.30	0.00	0.80	0.00	0.60	0.00	0.00	0.00	0.00	
20	0.00	0.05	0.12	0.60	0.00	0.10	0.00	0.20	0.00	0.00	0.00	0.00	
21	0.00	1.00	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	
22	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.70	0.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	-	0.36	0.00	0.01	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.06	0.00	0.03	0.70	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.30	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	1.70	0.00	0.00	9.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00		0.00	0.00	0.02	0.00	0.00	0.00	0.00	
30	0.00	0.15	0.00	0.00		0.00	0.00	0.03	0.00	0.00	0.00	0.00	
31	0.00		0.00	0.00		0.00		0.00		0.00	0.00		
Total	1.04	5.40	4.99	11.31	20.10	5.42	3.15	5.47	0.00	0.00	0.00	0.06	56.94
Average	0.03	0.19	0.16	0.36	0.72	0.17	0.11	0.18	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.72	1.70	1.42	2.40	9.00	1.70	0.70	2.40	0.00	0.00	0.00	0.04	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2017-2018													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
4	0.00	0.30	0.00	0.85	0.00	-	-	-	0.00	0.00	0.00	0.00	
5	0.00	0.05	0.00	0.32	0.00	-	-	-	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.37	0.00	-	-	-	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.75	0.00	-	-	-	0.00	0.00	0.00	0.00	
9	0.00	3.15	0.00	4.01	0.00	-	-	-	0.00	0.00	0.00	0.00	
10	0.00	0.18	0.00	0.35	0.00	-	-	-	0.00	0.00	0.00	0.00	
11	0.00	0.23	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
12	0.00	0.35	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
13	0.00	0.20	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
14	0.00	0.10	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
16	0.00	1.30	0.00	0.12	0.00	-	-	-	0.00	0.00	0.00	0.00	
17	0.00	0.05	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.35	0.00	-	-	-	0.00	0.00	0.00	0.00	
19	0.33	0.13	0.00	0.10	0.00	-	-	-	0.00	0.00	0.00	0.00	
20	0.00	0.21	0.50	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.90	0.00	-	-	-	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.71	-	-	-	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.75	0.00	-	-	-	0.00	0.00	0.00	0.00	
26	0.00	0.50	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
27	0.00	0.60	0.00	0.05	0.00	-	-	-	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00		-	-	-	0.00	0.00	0.00	0.12	
30	0.00	0.00	0.00	0.00		-	-	-	0.00	0.00	0.00	0.09	
31	0.00		0.00	0.00		-		-		0.00	0.00		
Total	0.33	7.35	0.50	8.92	0.71	-	-	-	0.00	0.00	0.00	0.21	18.02
Average	0.01	0.25	0.02	0.29	0.03	-	-	-	0.00	0.00	0.00	0.01	
Min	0.00	0.00	0.00	0.00	0.00	-	-	-	0.00	0.00	0.00	0.00	
Max	0.33	3.15	0.50	4.01	0.71	-	-	-	0.00	0.00	0.00	0.12	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2016-2017													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.60	0.00	0.07	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.05	0.00	0.00	0.27	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.10	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	2.64	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	1.74	3.70	0.23	0.30	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.53	0.18	2.40	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	1.08	4.01	0.80	0.00	0.41	0.00	0.16	0.00	0.00	0.00	0.00
9	0.00	0.00	2.60	0.70	2.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00
10	0.00	0.00	1.80	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.75	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	3.58	0.00	0.00	0.23	0.00	0.21	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	1.80	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00
14	0.79	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.17	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	1.20	0.00	2.00	0.00	1.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
17	0.90	0.00	0.00	0.00	0.45	0.00	2.08	0.00	0.00	0.00	0.00	0.00	0.00
18	-	0.00	0.00	0.15	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	1.30	0.00	3.85	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.72	0.00	0.73	0.49	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.08	0.00	1.99	1.55	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.73	0.00	0.00	2.02	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.83	0.38	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.28	0.05	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	2.32	0.72	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.75	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.98	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		0.00		0.00		0.00	0.00		
Total	9.32	4.15	10.76	28.60	19.90	3.92	7.51	0.00	0.37	0.00	0.00	0.00	84.53
Average	0.31	0.14	0.35	0.92	0.71	0.13	0.25	0.00	0.01	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	2.32	1.30	2.60	4.89	3.70	1.08	2.40	0.00	0.21	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2015-2016													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.67	0.15	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.32	1.04	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.50	0.08	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.40	1.40	0.00	2.50	0.00	0.13	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.27	1.40	0.00	1.25	0.00	0.05	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	1.15	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.23	0.00	0.03	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
9	0.00	0.22	0.08	0.35	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	1.21	0.20	0.00	2.30	0.18	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.42	0.05	0.00	0.78	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	1.04	0.94	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.30	0.00	0.51	0.00	0.93	0.20	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.38	0.48	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.03	0.00	0.75	0.54	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.15	0.90	0.16	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	1.27	0.50	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.08	0.00	0.53	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.15	0.11	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.05	0.20		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		0.00		0.00		0.00	0.00		
Total	0.72	2.00	7.80	12.95	1.85	13.55	1.10	0.63	0.00	0.00	0.00	0.00	40.60
Average	0.02	0.07	0.25	0.42	0.06	0.44	0.04	0.02	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.67	0.55	1.27	1.78	1.13	2.50	0.38	0.45	0.00	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2014-2015													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.17	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.91	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	3.50	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	1.25	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.09	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.15	0.10	0.00	0.00	0.00
11	0.00	0.00	3.40	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.59	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.25	0.38	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	1.90	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.78	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.48	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.05	0.86	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.71	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.57	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.33		0.00	0.00		0.00		0.00		0.00	0.00		
Total	1.00	4.87	15.58	0.25	6.59	0.28	2.11	0.00	0.15	0.10	0.00	0.00	30.93
Average	0.03	0.16	0.50	0.01	0.24	0.01	0.07	0.00	0.01	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.33	0.86	3.40	0.10	3.50	0.20	1.25	0.00	0.15	0.10	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2013-2014													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.00	0.00	0.90	1.08	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.37	0.23	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.93	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.45	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.30	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
19	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.06	0.45	0.30	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	2.20	0.21	0.06	0.00	0.00	0.00	0.00	0.00	0.27
28	0.00	0.00	0.00	0.00	0.93	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
30	0.00	0.00	0.00	0.05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		1.60		0.00		0.00	0.00		
Total	0.00	0.67	0.45	0.10	10.91	5.28	1.82	0.00	0.00	0.00	0.00	0.46	19.69
Average	0.00	0.02	0.01	0.00	0.39	0.17	0.06	0.00	0.00	0.00	0.00	0.02	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.00	0.39	0.45	0.05	3.50	1.60	1.08	0.00	0.00	0.00	0.00	0.27	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2012-2013													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.68	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	-	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	-	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	-	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	-	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	-	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.08	-	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
11	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	1.90	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	1.08	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	-	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.50	-	0.00	0.02	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.16
21	0.00	1.33	-	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.36
22	0.80	4.02	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.45	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.22	0.00	-	0.50	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.05	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
27	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
28	0.00	0.30	-	0.45	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
29	0.00	1.30	-	0.40		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	1.48	-	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
31	0.00		-	0.00		0.75		0.00		0.00	0.00		
Total	1.52	12.67	-	1.35	1.57	3.23	0.95	0.08	0.68	0.00	0.00	0.59	-
Average	0.05	0.42	-	0.04	0.06	0.10	0.03	0.00	0.02	0.00	0.00	0.02	
Min	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.80	4.02	-	0.50	1.35	1.40	0.50	0.08	0.25	0.00	0.00	0.36	

Source: National Climatic Data Center (NCDC), <http://www.ncdc.noaa.gov/cdo-web/search>

Note: There is no data for December; therefore, the December total and the annual total are not provided.

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2011-2012													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.00	0.00	0.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
5	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.14	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.10	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.10	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.05	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.05	0.40	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.22	0.05	0.00	0.00	1.15	1.10	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.15	0.00	0.00	0.06	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.03	4.25	0.08	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.13	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.78	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	3.51	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	3.15	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.78	0.00	0.00	0.00	1.50	0.05	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.03	0.00	0.45	0.05	0.05	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.25	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	1.30	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00		0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		1.25		0.00		0.00	0.00		
Total	2.09	3.29	0.18	7.39	2.74	15.01	3.20	0.30	0.04	0.00	0.00	0.00	34.24
Average	0.07	0.11	0.01	0.24	0.09	0.48	0.11	0.01	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.23	0.78	0.13	3.51	1.30	4.25	1.12	0.25	0.04	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2010-2011													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.08	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
3	0.00	0.00	0.28	0.15	0.00	0.13	0.00	0.00	0.38	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
5	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
6	0.00	0.75	1.85	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.18	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.32	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.02	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.20	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.33	0.00	0.48	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.47	0.15	0.00	0.18	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	2.20	1.29	0.00	0.18	0.00	0.00	0.00	0.00	0.00
17	0.30	0.00	0.15	0.00	2.30	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	1.41	0.00	1.10	0.23	0.00	0.61	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	1.08	0.00	0.90	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.32	1.32	0.00	0.06	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	1.32	0.32	0.00	0.00	0.30	0.25	0.00	0.00	0.00	0.00	0.00	0.00
22	0.12	0.22	0.81	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.15	0.00	0.18	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	1.65	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	0.00	0.00
25	1.71	0.00	0.00	0.00	0.97	2.00	0.05	0.45	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	1.14	0.00	0.03	1.25	0.00	0.13	0.42	0.00	0.00	0.00	0.00
27	0.00	0.43	0.00	0.00	0.00	0.20	0.00	0.00	0.05	0.00	0.00	0.00	0.00
28	0.00	0.03	0.00	0.00	0.06	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.55	0.00	0.38	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.35	0.00	0.08	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		2.00	0.00		0.00		0.14		0.00	0.00		
Total	4.83	3.37	12.01	0.73	8.57	14.67	0.48	2.44	2.49	0.00	0.00	0.00	49.59
Average	0.16	0.11	0.39	0.02	0.31	0.47	0.02	0.08	0.08	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.71	1.32	2.00	0.38	2.30	3.00	0.25	0.75	1.03	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2009-2010													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.06	0.03	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.23	0.00	0.25	0.07	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	1.10	0.42	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.03	0.00	0.00	1.78	0.08	1.60	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.15	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.10	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.40	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.40	0.00	0.06	0.00	2.30	0.05	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.86	1.20	0.17	0.05	0.44	0.48	0.00	0.00	0.00	0.00	0.00
13	0.60	0.00	1.18	0.86	0.00	1.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00
14	3.90	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.45	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.25	0.11	0.05	0.21	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.03	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.06	0.00	0.00	2.83	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
20	0.00	0.92	0.00	3.12	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.13	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.14	0.90	0.00	0.00	0.07	0.28	0.00	0.00	0.00	0.00	0.00
23	0.00	0.10	0.00	0.50	0.00	0.00	0.24	0.02	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.07	1.89	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	1.50	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	2.02	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	-	0.22	0.10	1.13	0.00	0.35	0.38	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.08	0.00	0.10	0.40	0.70	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.03		0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00		0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.34	0.00		0.00		0.00		0.00	0.00		
Total	5.44	1.41	4.02	16.76	6.57	4.00	6.67	2.66	0.00	0.00	0.00	0.00	47.53
Average	0.18	0.05	0.13	0.54	0.23	0.13	0.22	0.09	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	3.90	0.92	1.18	3.12	1.89	1.10	2.30	0.70	0.00	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://wlf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2008-2009													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	2.10	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	1.02	0.00	0.00	0.00	1.70	0.00	0.87	0.06	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.05	0.00	1.20	0.00	0.48	0.00	0.00	0.00	0.00	
4	1.80	0.00	0.00	0.00	0.00	0.64	0.00	0.12	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.10	0.12	0.05	0.00	0.90	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.07	0.35	0.05	0.00	0.05	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.04	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
15	0.00	0.00	0.60	0.00	1.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.10	0.00	1.90	0.15	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	1.20	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.78	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.36	0.20	1.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.50	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.63	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.53		0.02	0.00		0.00		0.00		0.00	0.00		
Total	2.96	4.67	4.50	0.58	11.18	4.74	0.41	2.44	0.06	0.00	0.00	0.07	31.61
Average	0.10	0.16	0.15	0.02	0.40	0.15	0.01	0.08	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.80	2.10	1.90	0.20	2.20	1.70	0.30	0.90	0.06	0.00	0.00	0.07	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2007-2008													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.73	3.30	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.06	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.04	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.92	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	1.02	0.00	1.13	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.50	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.15	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.73	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.13	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.05	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.03	0.08	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.18	0.00	0.00	0.00	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.40	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.27	1.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.28	2.10	0.00	0.04	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.78	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.38	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.22	0.18	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.06	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	-	0.00	0.08	-	0.00	-	0.00	-	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.00	0.00		0.00		0.00		0.00	0.00		
Total	2.30	0.63	5.93	16.52	3.90	0.09	0.21	0.02	0.00	0.00	0.00	0.00	29.60
Average	0.07	0.02	0.19	0.53	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.02	0.50	1.13	4.30	2.10	0.07	0.17	0.02	0.00	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2006-2007													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	-	-	0.00	-	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.30	-	0.00	-	-	0.00	0.15	0.00	0.00	0.00	0.00	0.00
3	0.00	1.07	-	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.08	0.04	-	0.05	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.16	-	-	0.02	-	-	0.00	0.41	0.00	0.00	0.00	0.00	0.00
6	-	0.02	-	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	-	-	-	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	-	-	-	0.00	0.75	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	-	-	0.75	0.00	1.96	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	-	-	1.00	0.03	1.35	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	-	0.43	0.12	0.00	1.00	-	0.08	0.00	0.00	0.00	0.00	0.00	0.00
12	-	0.22	0.80	0.00	0.11	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	-	0.33	0.12	0.00	0.40	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	-	0.28	0.05	0.00	-	-	0.15	0.00	0.00	0.00	0.00	0.00	0.00
15	-	0.05	0.15	0.00	-	-	0.20	0.00	0.00	0.00	0.00	0.00	0.00
16	-	0.00	-	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	-	0.03	-	0.05	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	-	-	-	0.00	-	-	0.00	0.00	0.00	0.03	0.00	0.00	0.00
19	-	-	-	0.00	-	-	0.34	0.00	0.00	0.00	0.00	0.00	0.00
20	-	-	0.03	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.07
21	-	-	0.06	0.00	-	-	0.02	0.00	0.00	0.00	0.00	0.00	0.05
22	-	0.09	1.25	0.00	1.10	-	0.82	0.00	0.00	0.00	0.00	0.00	0.07
23	-	0.18	0.02	0.00	0.17	-	0.10	0.00	0.00	0.00	0.00	0.00	0.00
24	-	-	-	0.00	1.15	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	-	0.04	-	0.00	0.60	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	-	-	0.02	0.00	0.87	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	-	0.69	2.70	0.04	0.45	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	-	0.11	-	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	-	0.02	-	0.02	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	-	0.00	0.03	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.04	-	0.00	0.00	-	0.00	-	0.00	-	0.00	-	-	-
Total	-	-	-	0.23	-	-	1.71	0.56	0.00	0.03	0.00	0.19	-
Average	-	-	-	0.01	-	-	0.06	0.02	0.00	0.00	0.00	0.01	-
Min	-	-	-	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	-
Max	-	-	-	0.05	-	-	0.82	0.41	0.00	0.03	0.00	0.07	-

Source: National Climatic Data Center (NCDC), <http://wlf.ncdc.noaa.gov/oa/ncdc.html>

Note: A significant amount of data was missing for 2006-2007 therefore monthly and annual totals were not able to be determined.

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2005-2006													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	-	-	1.15	0.64	0.08	0.32	1.09	-	0.00	0.00	0.00	-	-
2	-	-	2.11	2.13	0.12	0.64	0.10	-	0.00	0.00	0.00	-	-
3	-	-	-	0.30	0.02	0.05	1.62	-	0.00	0.00	0.00	-	-
4	-	0.50	-	0.82	0.17	0.17	0.06	-	0.00	0.00	0.00	-	-
5	-	-	-	0.07	-	0.36	0.52	-	0.00	0.00	0.00	-	-
6	-	-	-	0.03	-	2.85	0.02	-	0.00	0.00	0.00	-	-
7	-	0.14	-	0.02	-	0.70	-	-	0.00	0.00	0.00	-	-
8	-	1.20	0.04	-	-	0.02	0.55	-	0.00	0.00	0.00	-	-
9	-	-	-	-	-	-	0.03	-	0.00	0.00	0.00	-	-
10	-	-	-	-	-	0.07	0.15	-	0.00	0.00	0.00	-	-
11	-	-	-	0.07	-	0.13	0.50	-	0.00	0.00	0.00	-	-
12	-	-	-	-	-	0.05	2.50	-	0.00	0.00	0.00	-	-
13	-	-	-	-	-	0.27	0.49	-	0.00	0.00	0.00	-	-
14	-	-	-	0.29	-	1.46	0.04	-	0.00	0.00	0.00	-	-
15	0.06	-	-	0.29	-	0.18	-	-	0.00	0.00	0.00	-	-
16	-	-	-	-	-	0.24	0.71	-	0.00	0.00	0.00	-	-
17	-	-	-	-	-	0.72	0.21	-	0.00	0.00	0.00	-	-
18	-	-	2.93	0.67	0.18	-	-	-	0.00	0.00	0.00	-	-
19	-	-	2.26	0.21	0.07	-	-	-	0.00	0.00	0.00	-	-
20	-	-	-	-	-	-	-	0.25	0.00	0.00	0.00	-	-
21	-	-	1.00	0.08	-	0.33	-	-	0.00	0.00	0.00	-	-
22	-	-	1.16	-	-	-	0.02	0.62	0.00	0.00	0.00	-	-
23	-	-	0.87	-	-	-	0.00	0.06	0.00	0.00	0.00	-	-
24	-	-	0.02	-	-	0.36	0.00	0.05	0.00	0.00	0.00	-	-
25	-	-	0.08	-	-	0.62	0.00	0.00	0.00	0.00	0.00	-	-
26	0.16	0.11	1.37	0.06	-	0.16	0.00	0.00	0.00	0.00	0.00	-	-
27	0.02	-	0.04	0.22	2.27	0.00	0.00	0.00	0.00	0.00	0.00	-	-
28	0.28	0.09	2.30	-	2.28	0.42	0.00	0.00	0.00	0.00	0.00	-	-
29	0.75	0.99	0.26	0.63	-	0.91	0.00	0.00	0.00	0.00	0.00	-	-
30	0.02	0.00	0.26	0.07	-	0.20	0.00	0.00	0.00	0.00	0.00	-	-
31	0.00	-	5.90	0.42	-	0.22	-	0.00	-	0.00	0.00	-	-
Total	-	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-
Average	-	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-
Min	-	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-
Max	-	-	-	-	-	-	-	-	0.00	0.00	0.00	-	-

Source: National Climatic Data Center (NCDC), <http://wlf.ncdc.noaa.gov/oa/ncdc.html>

Note: A significant amount of data was missing for 2005-2006 therefore monthly and annual totals were not able to be determined.

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2004-2005													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	-	0.78	-	0.04	-	-	-	-	0.00	0.00	
2	-	0.00	-	0.48	-	0.51	-	-	-	-	0.00	0.00	
3	-	0.00	-	0.78	-	0.34	-	-	-	-	0.00	0.00	
4	-	0.06	-	0.15	-	0.16	0.84	-	-	-	0.00	0.00	
5	-	0.02	-	0.02	-	0.05	-	0.85	-	-	0.00	0.00	
6	-	-	-	0.09	-	-	-	0.06	-	-	0.00	0.00	
7	-	-	2.96	0.77	0.02	-	0.28	0.06	-	-	0.00	0.00	
8	-	-	2.62	0.95	-	-	0.16	0.28	0.02	-	0.00	0.00	
9	-	-	0.32	0.53	-	-	0.52	1.55	0.08	-	0.00	0.00	
10	-	0.50	0.03	0.02	-	-	-	0.17	-	-	0.00	0.00	
11	-	0.29	-	1.51	-	-	-	0.02	-	-	0.00	0.00	
12	-	0.77	-	0.07	-	-	-	-	-	-	0.00	0.00	
13	-	0.04	0.07	-	0.03	-	-	-	-	-	0.00	0.00	
14	-	0.03	0.02	-	0.02	-	-	-	-	-	0.00	0.00	
15	-	-	-	-	0.04	-	-	-	-	-	0.00	0.00	
16	-	-	0.03	-	0.84	-	-	-	-	-	0.00	0.00	
17	0.29	-	-	-	0.16	-	-	-	0.20	-	0.00	0.00	
18	0.65	-	-	-	0.32	-	-	0.78	0.21	-	0.00	0.00	
19	1.50	-	-	-	0.50	1.37	-	1.81	0.03	-	0.00	0.00	
20	0.79	-	-	-	0.60	1.11	-	0.00	0.00	-	0.00	0.00	
21	0.01	-	-	-	1.07	0.60	-	0.00	0.00	-	0.00	0.00	
22	-	-	-	-	0.37	1.73	-	0.00	0.00	-	0.00	0.00	
23	-	-	-	-	-	0.20	0.20	0.00	0.00	-	0.00	0.00	
24	0.06	-	-	-	-	-	0.04	0.00	0.00	-	0.00	0.00	
25	0.00	-	-	-	-	-	0.00	0.00	0.00	-	0.00	0.00	
26	1.14	-	0.05	0.76	0.02	-	0.00	0.00	0.00	-	0.00	0.00	
27	0.01	1.12	3.67	0.28	0.20	-	0.00	0.00	0.00	-	0.00	0.00	
28	0.00	0.00	1.67	0.88	1.24	1.34	0.00	0.00	0.00	-	0.00	0.00	
29	0.00	0.00	0.55	0.15	-	0.07	0.00	0.00	0.00	-	0.00	0.00	
30	0.00	0.00	1.52	0.00	-	-	0.00	0.00	0.00	-	0.00	0.00	
31	0.00	-	0.51	0.00	-	0.04	-	0.00	-	-	0.00	-	
Total	-	-	-	-	-	-	-	-	-	-	0.00	0.00	-
Average	-	-	-	-	-	-	-	-	-	-	0.00	0.00	-
Min	-	-	-	-	-	-	-	-	-	-	0.00	0.00	-
Max	-	-	-	-	-	-	-	-	-	-	0.00	0.00	-

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

Note: A significant amount of data was missing for 2004-2005 therefore monthly and annual totals were not able to be determined.

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2003-2004													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	1.34	1.85	0.04	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	1.33	0.43	0.75	0.21	0.00	-	-	0.00	0.00	0.00	0.00
3	0.00	0.33	0.00	0.21	0.84	0.00	0.00	-	-	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00
5	0.00	0.08	0.55	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00
6	0.00	0.22	0.21	0.00	0.00	0.02	0.00	-	-	0.00	0.00	0.00	0.00
7	0.00	0.11	1.38	0.39	0.10	0.00	0.00	-	-	0.00	0.00	0.00	0.00
8	0.00	0.57	0.00	0.24	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00
9	0.00	1.52	0.00	0.14	0.00	0.00	0.00	-	0.01	0.00	0.00	0.00	0.00
10	0.00	0.17	2.16	0.64	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
11	0.00	0.01	0.44	0.01	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.31	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	1.49	0.00	0.09	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
15	0.00	0.23	0.00	0.15	0.01	0.00	0.03	-	0.00	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.02	0.68	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	3.36	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	3.48	0.00	0.08	-	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.04	-	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	1.21	0.00	0.00	0.00	0.39	-	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	1.15	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.31	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	2.57	0.25	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.15	0.00	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.54	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.30	0.20	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.15	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.22	2.66	0.04		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.00		0.02		0.00		0.00	0.00		
Total	0.00	3.62	19.14	4.84	13.70	1.66	0.61	-	-	0.00	0.00	0.00	43.57
Average	0.00	0.12	0.62	0.16	0.47	0.05	0.02	-	-	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	
Max	0.00	1.52	2.66	1.85	3.48	1.15	0.39	-	-	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2002-2003													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.85	0.00	0.00	0.00	0.00	0.02
4	0.00	0.00	0.00	0.00	0.00	0.01	0.61	0.23	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
8	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.35	0.43	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.55	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.04	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.02	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.05	1.55	1.14	1.40	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	5.50	0.01	0.10	1.22	0.21	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	3.71	0.06	0.00	2.42	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	4.59	0.01	1.02	0.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.83	0.00	0.00	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.90	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.04	0.41	0.00	0.00	0.05	0.00	0.00	0.00	0.51	0.00	0.00
23	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.03	0.00	0.08	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.68	0.00	0.00	0.01	0.59	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	1.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.63	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	1.36	0.00		0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.02	0.00		0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		1.57	0.00		0.00		0.00		0.00	0.00		
Total	0.00	4.61	25.33	4.73	2.56	3.95	7.34	1.27	0.00	0.00	0.51	0.02	50.32
Average	0.00	0.15	0.82	0.15	0.09	0.13	0.24	0.04	0.00	0.00	0.02	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.00	2.92	5.50	1.25	1.40	2.42	1.85	0.85	0.00	0.00	0.51	0.02	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 2001-2002													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	-	0.00	1.11	0.32	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
2	-	0.00	3.06	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	-	0.00	0.65	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	-	0.00	0.15	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	-	0.00	0.15	1.85	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	-	0.00	0.01	0.03	0.05	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	-	0.00	0.00	0.00	0.60	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	-	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	-	0.00	0.00	0.00	0.00	0.66	0.03	0.00	0.00	0.00	0.00	0.00	0.00
11	-	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	-	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	-	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	-	0.07	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	-	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	-	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	-	0.12	0.72	0.00	0.40	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
18	-	0.02	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
19	-	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	-	0.07	0.42	0.00	0.12	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00
21	-	0.15	1.22	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
22	-	0.97	0.68	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	-	0.00	0.36	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	-	1.64	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	-	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	-	0.00	0.25	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	-	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	-	0.09	0.39	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	-	1.97	2.12	0.00		0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
30	-	0.01	0.42	0.00		0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
31	-		0.96	0.00		0.00		0.00		0.00	0.00		
Total	-	8.99	14.17	6.13	1.40	2.51	0.44	1.38	0.00	0.00	0.00	0.00	35.02
Average	-	0.30	0.46	0.20	0.05	0.08	0.01	0.04	0.00	0.00	0.00	0.00	
Min	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	-	1.97	3.06	2.52	0.60	0.90	0.21	0.70	0.00	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 1998-1999													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.36	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.01	0.57	0.00	0.00	0.00	0.01	0.00	0.29	0.00	0.00	0.00	0.00
4	0.00	0.01	0.01	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00
5	0.00	0.00	0.49	0.00	0.02	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.14	0.00	0.01	3.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	1.03	0.09	0.00	1.78	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.24	0.13	0.00	2.18	0.06	0.42	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.01	0.00	0.00	2.26	1.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.22	0.00	0.00	0.00	-	0.04	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.01	0.23	0.00	0.14	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.01	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.03	0.00	0.26	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.15	0.00	0.04	1.78	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.21	0.00	1.18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.26	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.01	0.00	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.52	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	1.15	0.40	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	1.25	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	1.50	0.00	0.01	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.11	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.31	0.00	0.08	0.02	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.03	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	1.08	0.01	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.05	2.65	0.00	0.20		-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00		0.00	0.57		0.57		0.00		0.00	0.00		
Total	1.20	8.09	1.91	6.14	15.05	4.02	1.22	0.00	0.29	0.00	0.00	0.00	37.92
Average	0.04	0.27	0.06	0.20	0.54	0.14	0.04	0.00	0.01	0.00	0.00	0.00	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.15	2.65	0.57	1.61	3.00	1.87	0.47	0.00	0.29	0.00	0.00	0.00	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 1997-1998

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.02	0.00	0.00	0.00	0.60	0.33	0.00	0.00	0.00	0.00	
2	0.29	0.00	-	0.00	0.00	0.07	0.01	0.23	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	2.01	2.00	0.01	0.47	0.01	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.46	1.47	0.20	0.00	0.39	0.12	0.00	0.00	0.00	-	
5	0.00	0.00	0.53	0.00	1.21	0.20	0.00	0.02	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.25	0.16	0.09	0.01	0.14	0.02	0.00	0.00	0.00	0.00	
7	0.00	0.09	0.77	0.00	1.53	0.12	0.12	0.01	0.00	0.00	0.00	0.00	
8	0.05	0.00	0.61	0.00	4.92	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
9	1.34	0.00	0.02	0.13	0.19	0.00	0.31	0.00	0.00	0.00	0.00	0.00	
10	-	0.37	-	1.60	0.21	0.00	0.16	0.00	0.00	0.00	0.00	0.00	
11	0.00	-	-	0.25	0.46	0.00	0.00	0.14	0.00	0.00	0.00	0.00	
12	0.00	0.33	0.00	2.01	0.52	0.71	0.00	0.45	0.05	0.00	0.00	0.00	
13	-	0.42	0.00	0.60	0.20	0.18	0.79	0.01	0.00	0.00	0.00	0.00	
14	0.00	0.43	0.00	0.69	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	
15	0.00	1.11	0.00	1.01	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.73	0.00	0.00	0.00	0.00	0.16	0.01	0.00	0.00	0.00	0.00	
17	0.00	0.73	0.08	0.50	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	
18	0.00	-	0.00	1.26	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.74	0.00	0.01	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.04	0.00	-	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	-	0.00	-	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.16	0.00	-	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.24	0.00	0.04	0.00	0.02	-	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.05	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.49	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.06	0.00	1.50	0.00	0.05	0.00	0.06	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.13	
28	0.00	0.63	0.00	-	0.03	0.15	0.00	2.40	0.00	0.00	0.00	0.05	
29	0.00	-	-	1.50		-	0.00	1.28	0.00	0.00	0.00	0.00	
30	0.00	1.19	0.00	0.02		-	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.00	0.00		0.40		0.00		0.00	0.00	0.00	
Total	1.68	8.81	2.74	14.77	16.27	3.46	3.48	5.47	0.05	0.00	0.00	0.18	56.91
Average	0.06	0.34	0.10	0.55	0.58	0.12	0.12	0.18	0.00	0.00	0.00	0.01	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	1.34	1.19	0.77	2.01	4.92	0.73	0.79	2.40	0.05	0.00	0.00	0.13	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

TABLE 3

**HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
MIDDLETOWN PRECIPITATION STATION
DAILY PRECIPITATION (inches)**

Water Year 1996-1997													
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1	0.00	0.00	0.00	4.59	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	1.98	0.00	-	-	0.00	0.00	0.52	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.14	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	3.30	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00
15	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
16	0.00	0.00	-	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	-	0.00	-	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	1.67	-	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.25	1.50	-	0.00	0.00	0.03	0.95	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	-	-	-	0.00	0.04	0.00	0.00	0.00	0.69	0.00	0.00
21	0.00	0.00	-	1.99	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	1.41	-	-	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	-	2.45	0.00	0.00	0.45	0.24	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	-	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	-	0.11	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.50	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.15	0.76	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	14.75	0.04	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.91	5.34	22.13	16.82	0.00	2.34	1.52	0.44	0.52	0.00	0.69	0.30	51.01
Average	0.03	0.18	2.01	0.62	0.00	0.08	0.05	0.01	0.02	0.00	0.02	0.01	
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Max	0.50	1.67	14.75	5.95	0.00	1.86	0.95	0.24	0.52	0.00	0.69	0.30	

Source: National Climatic Data Center (NCDC), <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

FIGURES

FIGURE 1
HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
HISTORICAL WATER SURFACE ELEVATIONS - GRANGE ROAD WELL NO. 1 (GR 1)

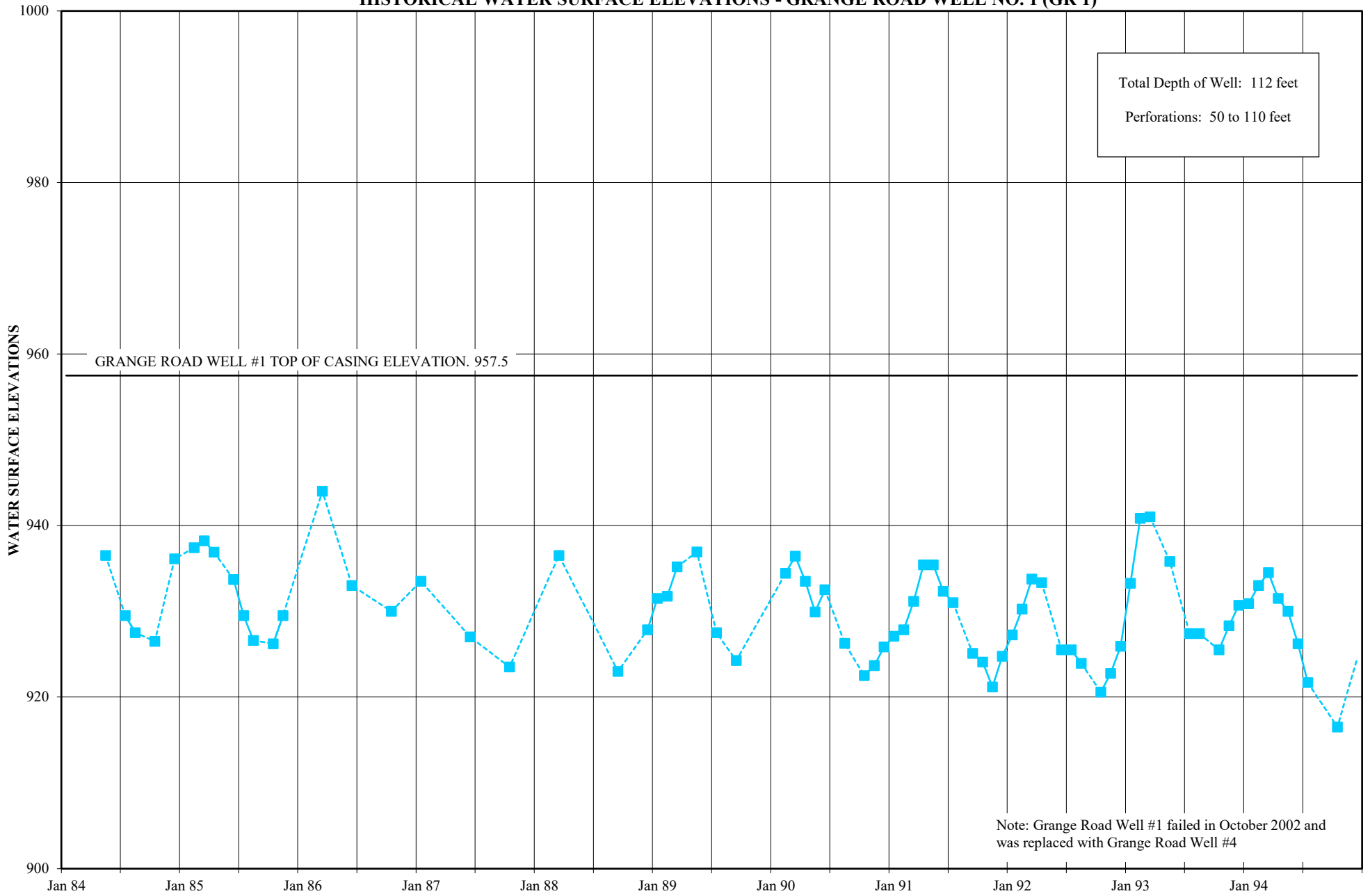


FIGURE 1
HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT
HISTORICAL WATER SURFACE ELEVATIONS - GRANGE ROAD WELL NO. 2 (GR 2)

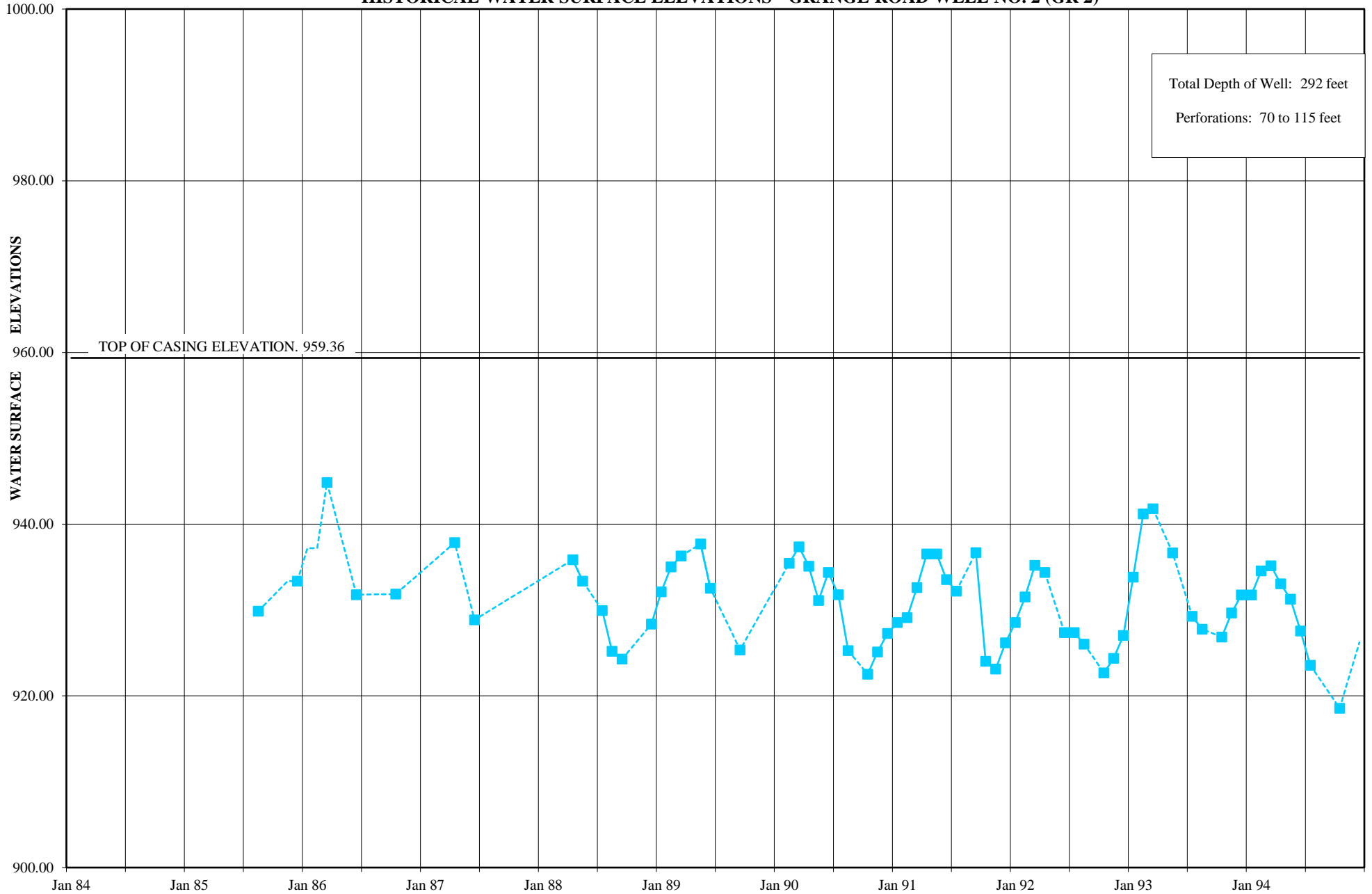
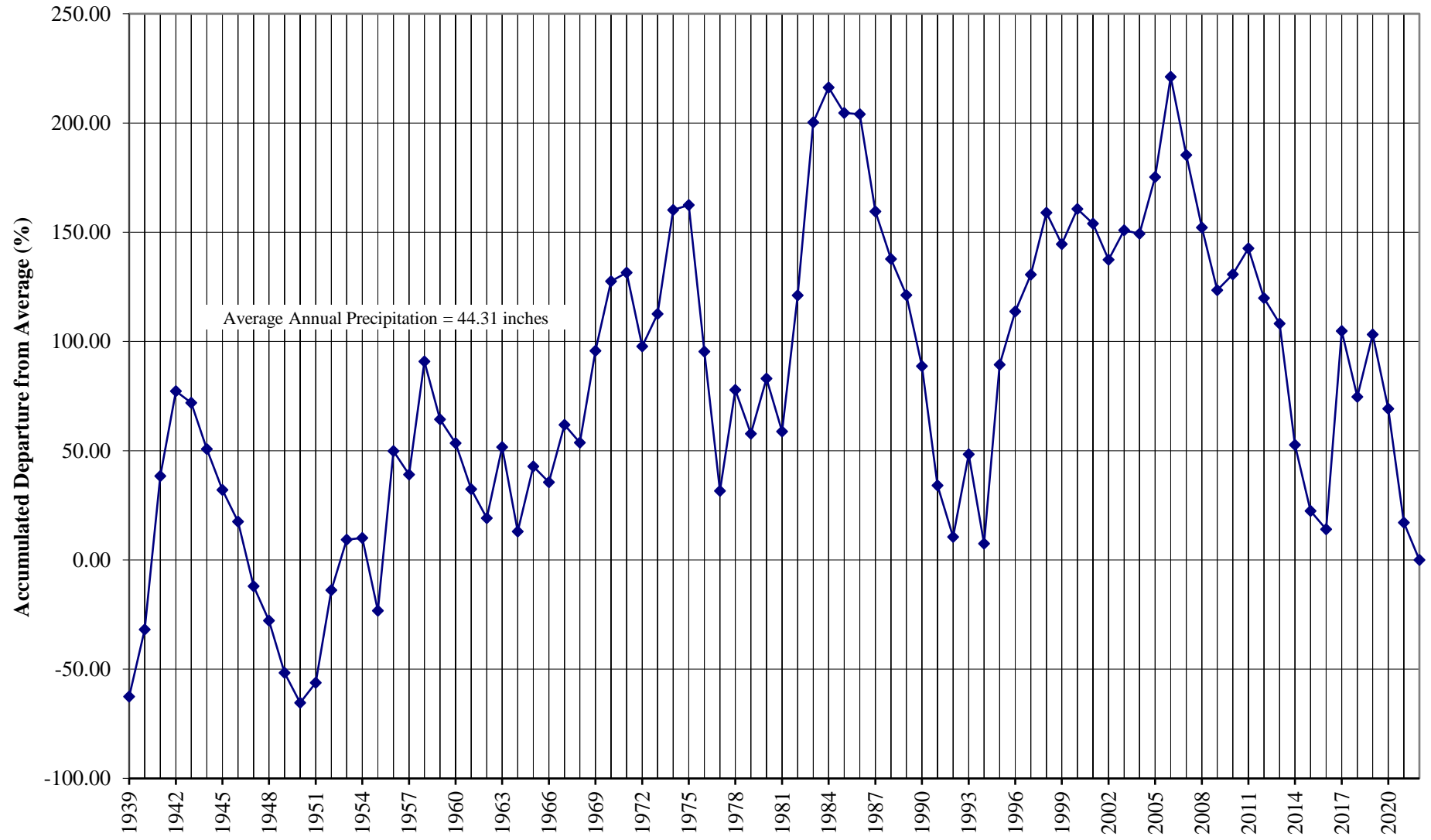


FIGURE 2
Hidden Valley Lake Community Services District
Accumulated Departure from Average Annual Precipitation Measured at the Middletown Station^(1,2)
Water Years 1939 - 2022



(1) Annual precipitation data for the years 2002, 2004-2007, and 2013 was estimated using data reported for the Calistoga station
(2) Annual precipitation data for the year 2018 was estimated using data reported for the Angwin PUC station.

APPENDICES

APPENDIX-1

**Grange Road Wells and Monitoring Wells
Geotechnical Reports and Boring Logs**

GRANGE ROAD WELL LOG

(GR-4)

- TOP OF CASING
ELEV 956.89

RECEIVED MAR 1 0 2003

Grange Road #2
Well #4

TRIPPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **769936**

DWR USE ONLY -- DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1

Owner's Well No. Well #4 4

Date Work Began 1/23/2003, Ended 2/26/2003

Local Permit Agency Lake Co Environ Health

Permit No. WE-2201 Permit Date 1/29/2003

GEOLOGIC LOG

WELL OWNER

ORIENTATION (✓)		DRILLING METHOD		DESCRIPTION	
<input checked="" type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL	<input checked="" type="checkbox"/> MUD ROTARY	<input type="checkbox"/> FLUID	<u>Bentonite</u>	
ANGLE _____ (SPECIFY)		Describe material, grain, size, color, etc.			
0	12	Tan clay			
12	59	Sand and gravel, cobble and boulders			
59	72	Clay			
72	84	Sand and gravel			
84	87	Clay			
87	94	Sand and gravel			
94	95	Clay			
95	115	Sand and gravel and clay streaks			
115	135	Clay			
135	138	Sand and gravel			
138	147	Clay with embedded gravel			
147	167	Sand and gravel and streaks of clay			
167	180	Clay with streaks of sand and gravel			
180	189	Blue clay with embedded gravel and streaks of loose gravel			
189	199	Clay with embedded rock			
199	204	Hard serpentine			
204	231	Stiff clay			

Name Hidden Valley Com: Service District

Mailing Address 19400 Hartman Road

Middletown CA

CITY STATE ZIP

Address 18963 Grange Road

City Middletown CA

County Lake

APN Book 014 Page 270 Parcel 67

Township _____ Range _____ Section _____

Latitude _____

DEG. MIN. SEC. LOCATION SKETCH NORTH SOUTH

ACTIVITY (✓) NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING _____

TEST WELL _____

CATHODIC PROTECTION _____

HEAT EXCHANGE _____

DIRECT PUSH _____

INJECTION _____

VAPOR EXTRACTION _____

SPARGING _____

REMEDATION _____

OTHER (SPECIFY) _____

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

TOTAL DEPTH OF BORING 231 (Feet)

TOTAL DEPTH OF COMPLETED WELL 206 (Feet)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 22 (FL) & DATE MEASURED 2/26/2003

ESTIMATED YIELD 100 (GPM) & TEST TYPE BAILED

TEST LENGTH 1 (Hrs.) TOTAL DRAWDOWN 44 (FL)

May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)				INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE (Inches)
		TYPE (✓)						
FL to FL		BLANK	SCREEN	CON. DUCTOR	FILL PIPE	MATERIAL / GRADE		
0 to 231	7 7/8							
50 to 218	22							
+3 to 206			✓			STEEL	14	
0 to 50				✓		S. STEEL	24	
50 to 110			✓			S. STEEL		.050
148 to 188			✓			S. STEEL		.050

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
FL to FL	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 to 50	✓			sand grout
50 to 206			✓	8 x 16 sand

- ATTACHMENTS (✓)
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analysis
 - Other _____
- ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Weeks Drilling & Pump

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

P.O. Box 176 Sebastopol CA 95473

ADDRESS CITY STATE ZIP

Signed Melissa G. Lopez DATE SIGNED 03/05/03 177681 C-57 LICENSE NUMBER

WELL DRILLER/AUTHORIZED REPRESENTATIVE

LUCHETTI RANCH MONITORING WELL LOGS

(MW 5A, MW 5B)

Wells SA + SB



October 27, 1998
Job No. 108.07.01

James C. Hanson Consulting Civil Engineer
444 North Third Street, Suite 400
Sacramento, California 95814

SA SB

Monitoring Well Installation
MW-~~4A~~ and ~~4B~~, Luchetti Ranch
Hidden Valley Lake CSD
Lake County, California

Gentlemen:

This letter summarizes the drilling activities and transmits our geologic log associated with the installation of monitoring well MW-4A and -4B for the Hidden Valley Lake Community Services District in Lake County, California. The wells were drilled on the Luchetti property, north of Grange Road and about 2.53 miles southeast of Highway 29, at the location shown on the attached Location Map, Plate 1. Our scope of services consisted of logging the conditions encountered during drilling of the well boring, providing geologic input to the construction of the wells, and presenting the findings in this letter.

Field Activities

On June 1 and 2, 1998, our engineering geologist observed the drilling of the boring for wells MW-4A and 4B by Weeks Drilling and Pump Company of Sebastopol, California. The well boring was drilled to a total depth of 100 feet, using a truck-mounted Failing 1500 rotary wash drill rig, equipped with a 7-7/8 inch diameter bit. The subsurface conditions encountered were logged by observing the drill cuttings circulated out of the borehole. The lithologic log for the boring is attached as Plate 2. The alluvial soils encountered were classified according to the Unified Soil Classification System described on Plate 3.

At the completion of drilling, the boring was flushed with clean water and two monitoring well casings were installed. The well completion detail is presented on Plate 2. The wells were constructed of 2-inch diameter Schedule 40 PVC casing, with 0.020-inch machine-slotted well screens. The deeper well casing (MW-4A) was screened from a depth of 90 to 100 feet and the second, shallower well (MW-4B) was screened from a depth of 30 to 40 feet. The dual well completion was performed to allow measurement of slight differences in

water levels, as an indicator of vertical ground-water gradients. The static water level was obscured by the bentonite mud used to drill the boring and we were not able to measure a water level at the time of drilling.

The annular space around the screened interval of each well consists of Lonestar #3 sand. A bentonite seal was placed above the sandpack from a depth of 20 to 16 feet. A surface grout seal, consisting of cement with approximately 5% bentonite was placed under the observation of Mr. Manual Ramirez of the Lake County Department of Environmental Health. The well casings extend above grade and are housed within a locking steel well vault.

Interpretation of Subsurface Conditions

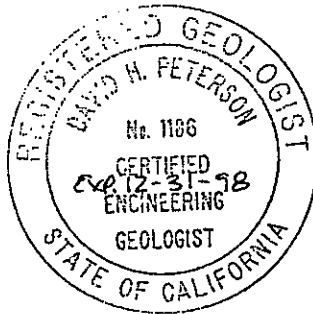
Wells MW-1 through MW-3, previously installed further west, encountered predominantly clean sands and gravels, indicative of stream channel deposits. The boring for MW-4A and 4B encountered interbedded sandy gravel, gravelly sand, clayey sand, and sandy clay alluvial strata to the depth explored. The clean sand and gravel units (soil symbols SP and GP) appear to represent stream channel deposits, possibly deposited as the main stream channel occasionally shifted across the valley bottom, or from tributaries. These strata are interbedded with finer grained materials that are more likely overbank and flood plain deposits, somewhat more removed from the main channel. We assume that ground water in the more permeable sand and gravel strata is at least partially confined.

We trust this letter provides the information you require. If you have questions about our findings, please call the undersigned at (707) 823-9290.

Very truly yours,
The Geoservices Group



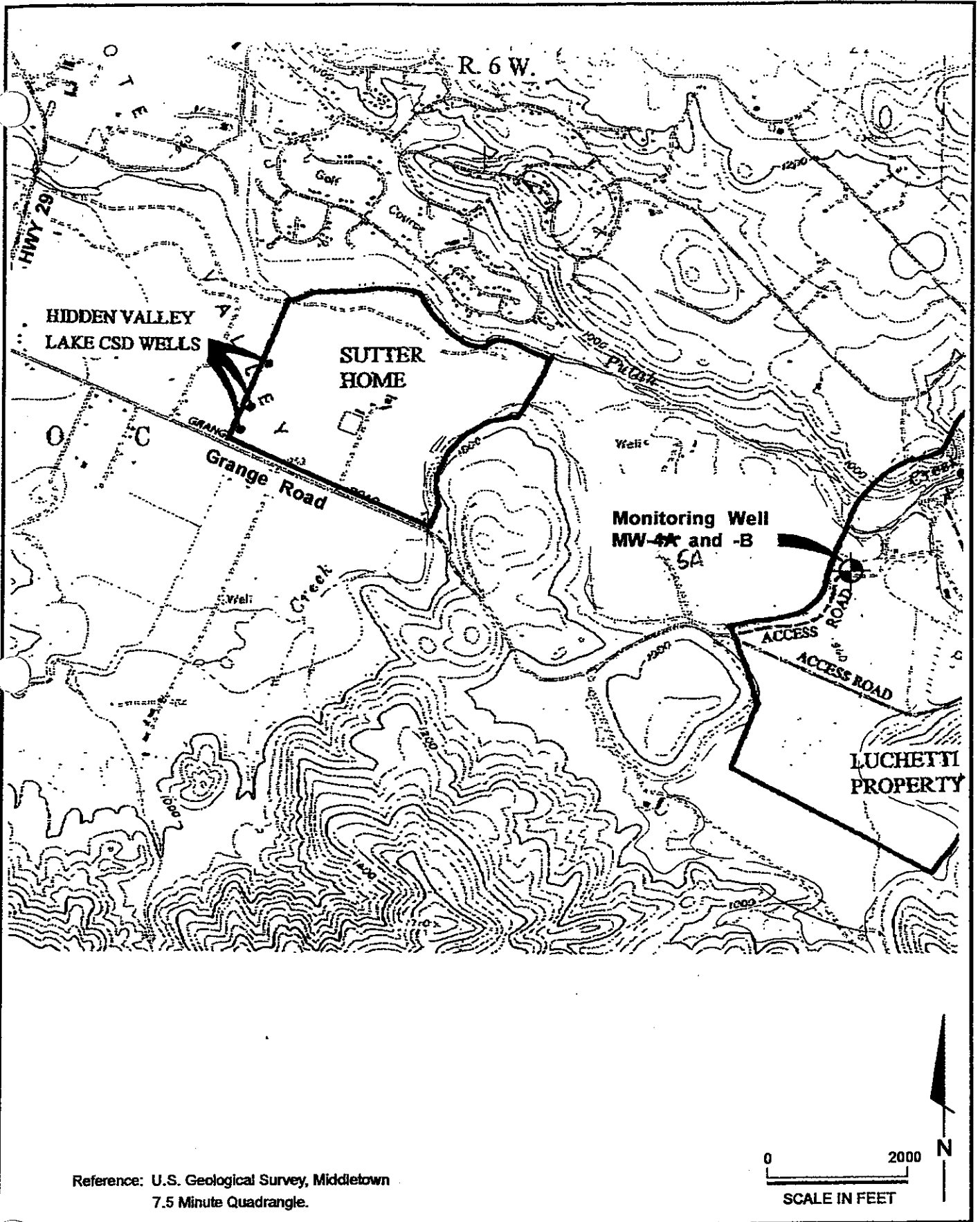
David H. Peterson
Engineering Geologist - 1186



Attachments: Location Map, Plate 1
 Log of Boring MW-4A and B, Plate 2
 Unified Soil Classification System, Plate 3

DHP:dhp\1080701.MWI

Original and two copies submitted



Reference: U.S. Geological Survey, Middletown
7.5 Minute Quadrangle.

0 2000 N
SCALE IN FEET

Log of Boring MW-4A and B

Job Number 108.07.01 Date Completed 6-1-98
 Drilling Method 7-7/8" Rotary Wash Depth 100 ft
 Logged by DHP Elevation _____
 Description

Laboratory Data

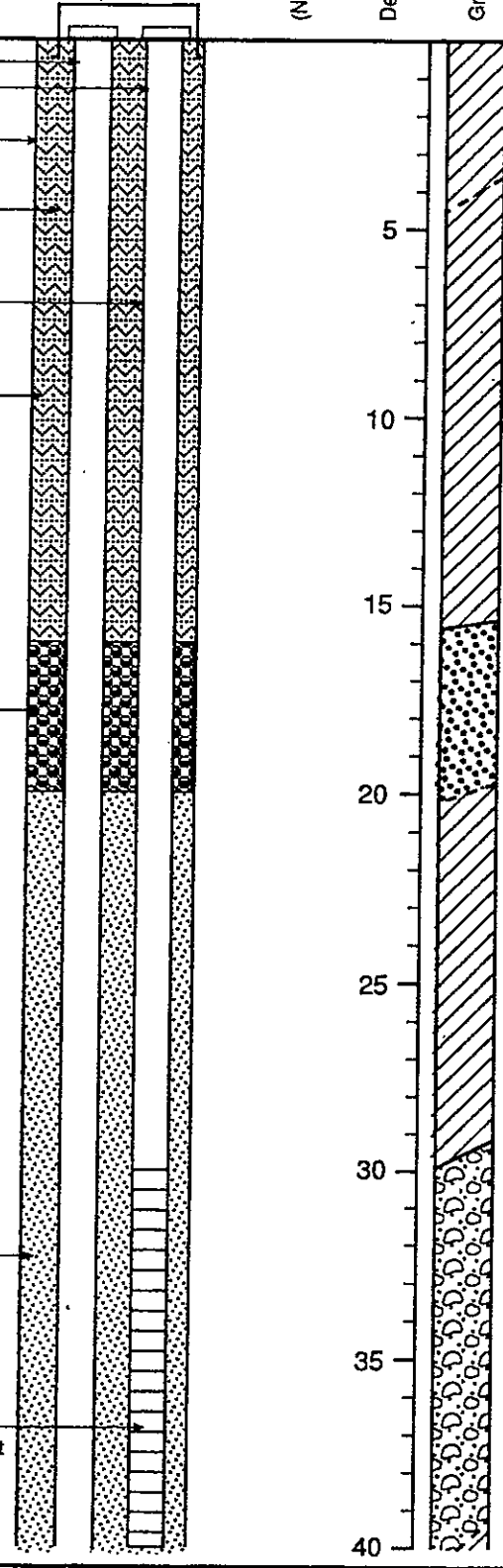
MW-4A
 MW-4B
 7-7/8 inch diameter borehole 0 to 100 ft
 2 inch diameter Sch 40 PVC Blank casing, 0 to 90.0 ft
 2 inch diameter Sch 40 PVC Blank casing, 0 to 30.0 ft
 Bentonite - cement seal 0 to 16.0 ft
 Bentonite pellet seal 16.0 to 20.0 ft
 Lonestar #3 sandpack, 20.0 to 100.0 ft
 2 inch diameter slotted 0.02 screen, 30.0 to 40.0 ft

Locking steel well vault

(N) Blows /ft.

Depth Feet

Graphic Log



BROWN SANDY CLAY (CL) stiff, wet
 GRAY-BROWN SANDY GRAVELLY CLAY (CL) stiff, rounded gravel to 1 inch diameter (Alluvium)
 same with occasional sandier strata
 GRAY GRAVELLY SAND (SP) medium dense, coarse grained sand
 BROWN SANDY CLAY (CL) stiff, with 30 to 40% sand, 10 to 15% fine sand
 increasing fine to medium sand (25-35%)
 DARK GRAY SANDY GRAVEL (GP) coarse sand and rounded gravel to 1/2 inch diameter
 (rig chatter at 33.0 ft)
 coarse sand and gravel to 1 inch diameter



Log of Boring MW-4A and B
 Hidden Valley Lake CSD
 Lake County, California

PLATE
2

Log of Boring MW-4A and B, cont.

Job Number 108.07.01 Date Completed 6-1-98
 Drilling Method 7-7/8" Rotary Wash Depth 100 ft.
 Logged by DHP Elevation _____

Laboratory Data

MW-4A

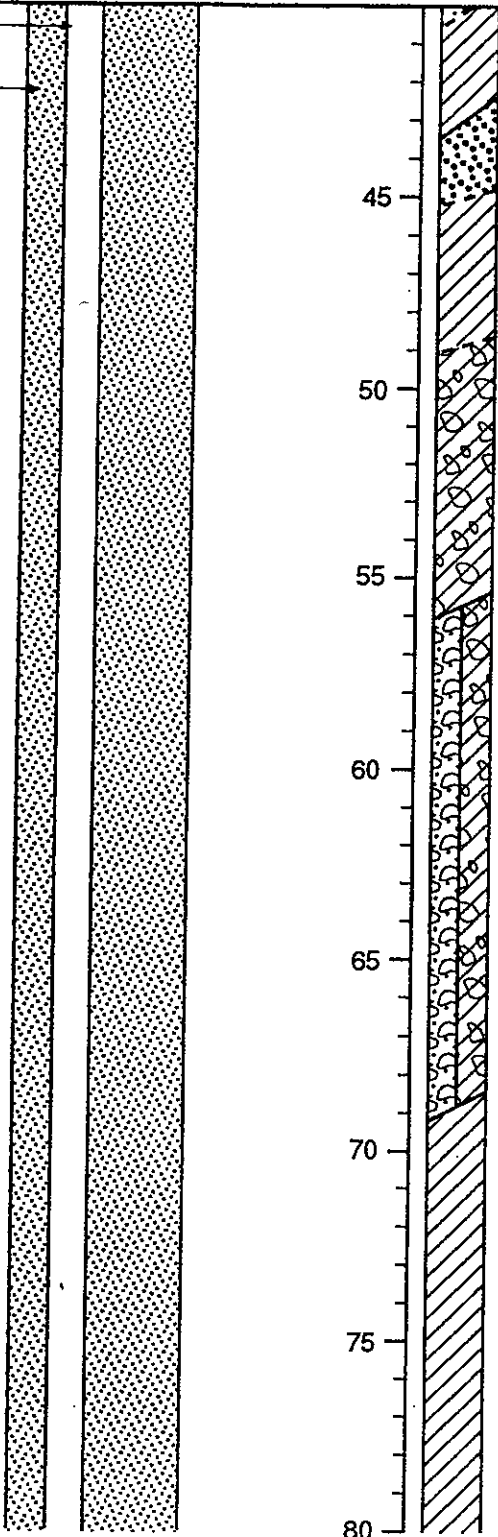
Lonestar #3 sandpack, 20.0 to 100.0 ft

(N) Blows /ft.*

Depth Feet

Graphic Log

Description



GRAY SANDY CLAY (CL) stiff
 DARK GRAY GREEN SAND (SP) coarse grained
 GRAY SANDY CLAY (CL) with 30 to 40% sand and occasional gravel
 increase in sand at 47.0 ft
 GRAY CLAYEY GRAVEL (GC) with gravel to about 1 inch diameter with interbedded GREEN GRAY CLAYEY SAND (SC) stiff, with 30 to 40% clay, medium grained sand
 GRAY SANDY GRAVEL (GP/GC) slightly clayey, coarse sand
 slightly sandier at 59.0 ft
 interbedded with GRAVELLY SAND (SP)
 GRAY SANDY CLAY (CL) medium stiff, fine to medium grained sand
 same cuttings to 82 ft



Log of Boring MW-4A and B, continued PLATE
 Hidden Valley Lake CSD 2
 Lake County, California

Log of Boring MW-4A and B, cont.

Job Number 108.07.01 Date Completed 6-1-98
 Drilling Method 7-7/8" Rotary Wash Depth 100 ft
 Logged by DHP Elevation _____

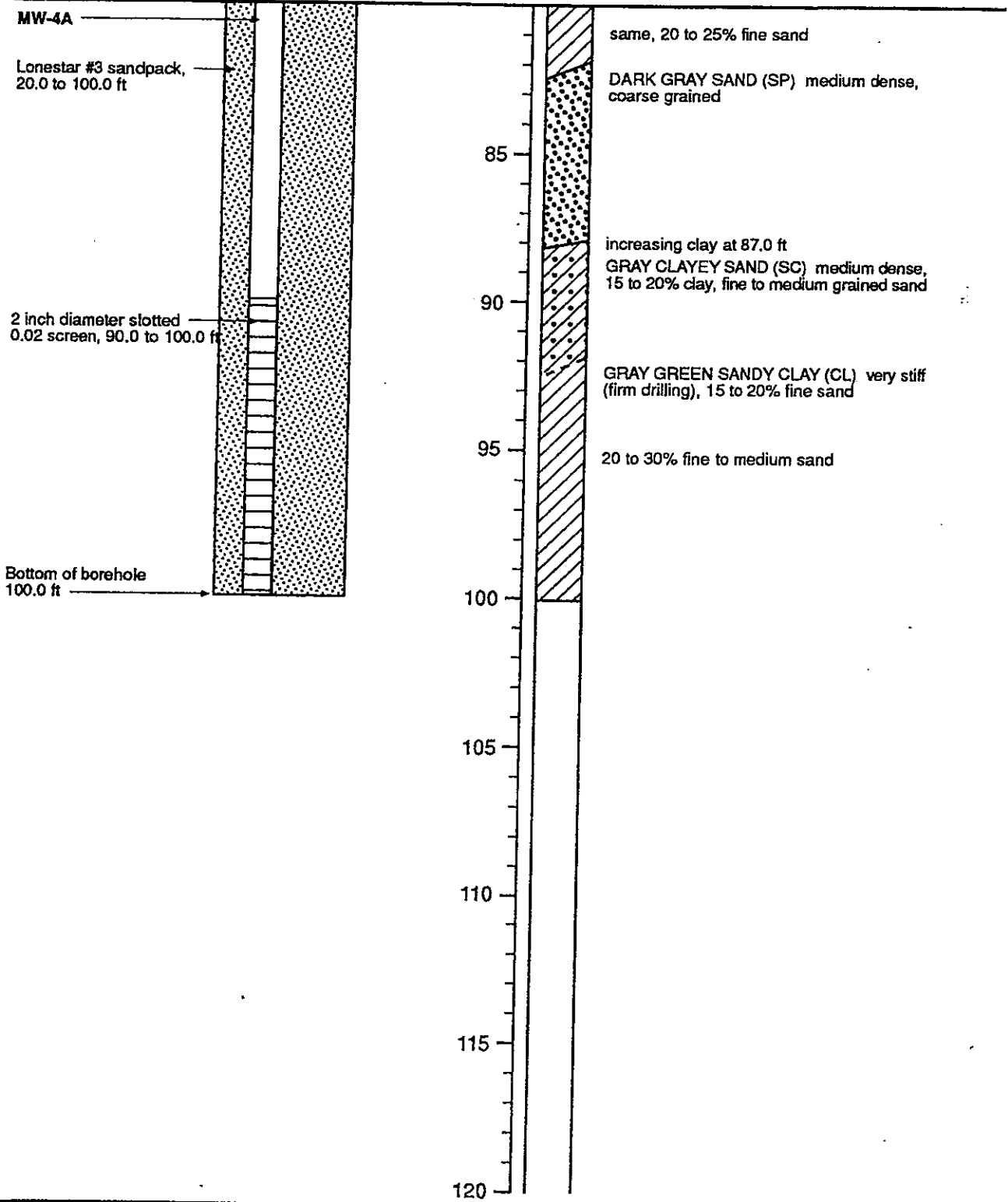
Laboratory Data

(N) Blows /ft.*

Depth Feet

Graphic Log

Description



MAJOR DIVISIONS			TYPICAL NAMES	
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS	CLEAN GRAVELS WITH LITTLE TO NO FINES	GW	WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, SILTY GRAVELS WITH SAND
			GC	CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS WITH OR WITHOUT GRAVEL
			SC	CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS	
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS	
		OL	ORGANIC SILTS OR CLAYS WITH LOW PLASTICITY	
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
		OH	ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY	
HIGHLY ORGANIC SOILS		Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

UNIFIED SOIL CLASSIFICATION - ASTM D2487-85

Perm	- Permeability	Shear Strength (psf)	Confining Pressure
Consol	- Consolidation	TxUU 3200 (2600) - Unconsolidated Undrained Triaxial Shear (FM) or (S)	
LL	- Liquid Limit (%)	TxCU 3200 (2600) - Consolidated Undrained Triaxial Shear (P)	
PI	- Plastic Index (%)	TxCD 3200 (2600) - Consolidated Drained Triaxial Shear	
G _s	- Specific Gravity	SSCU 3200 (2600) - Simple Shear Consolidated Undrained (P)	
MA	- Particle Size Analysis	SSCD 3200 (2600) - Simple Shear Consolidated Drained	
■	- "Undisturbed" Sample	DSCD 2700 (2000) - Consolidated Drained Direct Shear	
☒	- Bulk or Classification Sample	UC 470 - Unconfined Compression	
		LVS 700 - Laboratory Vane Shear	

KEY TO TEST DATA

Soil Classification Chart
and Key to Test Data
Hidden Valley Lake CSD
Lake County, California

PLATE

3

GRANGE ROAD WELL LOGS

(GR 1, GR 2, GR 3)

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTHWELL DATA (1) Place and Owner Stonehouse Mutual Water Company(2) Source of Information Larry Menzio, SuperintendentCollected by A. Dinos Date September 1, 1981

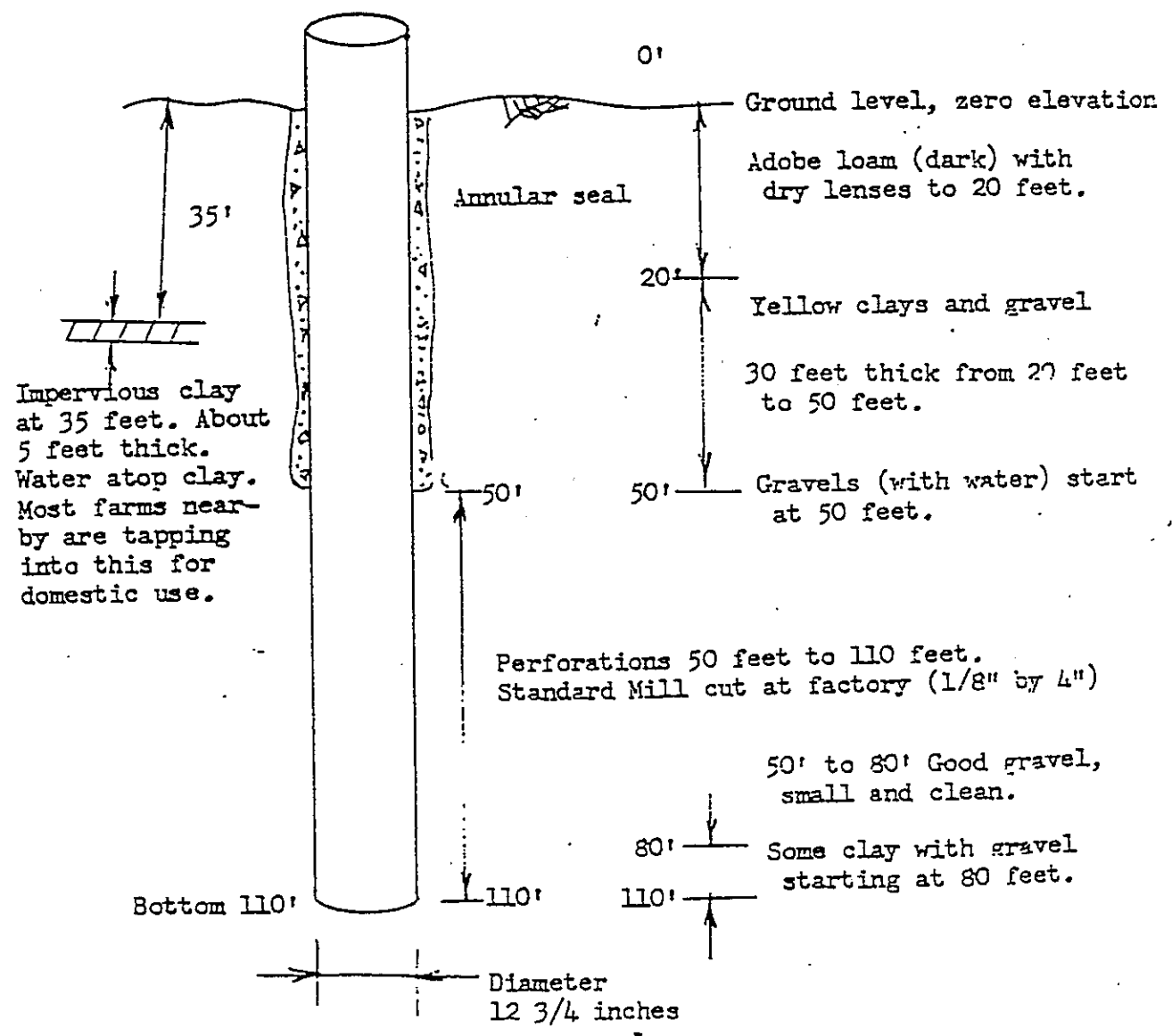
(3) Number or Name	Grange Road Well	
Date drilled	June 14, 1976	
(4) Location: Neighborhood	Northwest corner of a vineyard	
Size of lot	Multi-acred	
Distance to: Sewer	$\frac{1}{4}$ mile	
Sewage disposal	Ranch house septic system $\frac{1}{2}$ mile away	
Abandoned well	None	
Nearest property line	50 feet	
(5) Housing: Type	Wooden housing (3 sided)	
Condition	New	
Pit depth (if any)	None	
Floor (material)	Pedestal only, no floor	
Drainage	Natural, away, and minimal	
(6) Well Depth	112 feet	
(7) Casing: Depth	112 feet	
Diameter	12 $\frac{3}{4}$ inches	
Kind	Steel	
Height above floor	1 foot	
Distance to highest perforations	50 feet	
Surface sealed (yes or no)	Yes	
Gravel pack (yes or no)	No	
Second casing depth	None	
Second casing diameter	None	
Annular seal (depth)	Yes, to 50 feet	
(8) Impervious Strata: Penetrated	Thickness	5 feet (water atop the clay layer)
	Depth to	35 feet
(9) Water Levels: Depth to	Surface	35 feet (See above)
	Static	29 feet
	When pumping	6-inch drawdown at 300 GPM; or, 29 feet.
(10) Pump: Make	National	
Type	Deep well turbine	
Capacity, g.p.m.	500 GPM	
Lubrication	Oil	
Power	PGE 230/460 volts	
Auxiliary power	None	
Control	Automatic (clearwell tank level)	
Discharge location	above ground	
Discharge to	Water treatment plant $\frac{1}{2}$ miles away (mostly 8-inch pipe)	
(11) Frequency of Use	Daily	
(12) Flood Hazard	Minimal	
(13) Remarks and Defects	Driller: Lovisone of Lower Lake (Tele: 707 904-2612). Note: Dinos and Menzio interviewed Lovisone who was	

Well # 1 file

Grange Road Well Details and Geology.

Described verbally by the driller Lovisone in the field September 1, 1981 to Dinos and Menzio.

Lovisone was drilling another well on another property near the vineyard where the Grange Road Well is located.



Note: No scale.
No proportion.

TE
COPY

STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

GR-2

Do not fill in

No. 177233

State Well No. _____

Other Well No. _____

Date of Drilling _____

DRILLER'S Name Stonehouse Mutual Water Co.
William Hamann, P. O. Box 471
Letourneau, CA Zip 95461

(12) WELL LOG: Total depth 292 ft. Depth of completed well 20 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

LOCATION OF WELL (See instructions):
Name _____ Owner's Well Number #2
Different from above Grange Road
Letourneau Range _____ Section _____
cities, roads, railroads, fences, etc. _____

0 - 7 Topsoil
7 - 22 Conglomerate boulders and gravel
22 - 51 Conglomerate boulders, cobbles, and gravel
51 - 58 Conglomerate gravels, cobbles & traces of brown clay
58 - 74 Gravels and cobbles
74 - 113 Conglomerate boulders, cobbles, and gravels

RECEIVED
MAR - 7 1991
MES C. HANSON

(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in item 12)
(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Stock
Municipal
Other

113 - 117 Brown clay
117 - 150 Brown sandy clay with cemented gravel
150 - 160 Brown clay
160 - 178 Brown sandy clay with streaks of gravel
178 - 184 Brown clay & cemented boulders
184 - 192 Brown clay
192 - 205 Brown clay with streaks of gravel
205 - 208 Brown clay
208 - 219 Brown clay with seams of cemented gravel
219 - 248 Blue clay with layers of cemented gravel
248 - 260 Brown clay
260 - 263 Blue clay
263 - 265 Streaks of small blue gravel
265 - 282 Blue clay with streaks of cemented gravel
282 - 292 Cemented conglomerate

WELL LOCATION SKETCH

EQUIPMENT:
Reverse
Air
Bucket

(6) GRAVEL PACK: Monterey sand
Yes No Size 8 x 16
Diameter of bore 12 1/2 - 18"
Packed from 53 to 120 ft.

INSTALLATION:
Plastic Concrete

(8) PENETRATIONS:
Beston 1000 Super Flo
Type of penetration _____

To ft.	Dia. in.	Casing or Wall	From ft.	To ft.	Slot size
120	12 3/4	250	70	115	.050

SEAL:
Sanitary seal provided? Yes No If yes, to depth 53 ft.
Sealed against pollution? Yes No Interval _____ ft.
Sealing Sand grout on pack

Work started 5/11 1985 Completed 5/15 1985

WATER LEVELS:
Water, if known _____ ft.
Level after well completion 22 ft.

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

TESTS:
Test made? Yes No If yes, by whom? To be tested
Pump Bailor Air lift
At start of test 23 ft. At end of test 70 ft.
2 gal/min after 4 hours Water temperature Cool
Analysis made? Yes No If yes, by whom? _____
Log made? Yes No If yes, attach copy to this report

SIGNED Gerald C. Thompson, By: Ward Thompson
(Well Driller)
NAME WEEKS DRILLING AND PUMP COMPANY
(Person, firm, or corporation) (Typed or printed)
Address P. O. Box 176
City Sebastopol, CA Zip 95472
License No. C57-177681 Date of this report May 28, 1985

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
GR-3
File
Stonehouse

No. 375939

WELL #3

State Well No. _____
Other Well No. _____

No. _____
or Date WE 561

DRILLER: Name Stonehouse Mutual Water Company
Winzler & Kelly, 495 Tesconi Circle
Santa Rosa, CA ZIP 95401
LOCATION OF WELL (See instructions): 14-270-66
Lake _____ Owner's Well Number _____
as if different from above 18963 Grange Road
Middletown Range _____ Section _____
from cities, roads, railroads, fences, etc. _____

(12) WELL LOG: Total depth 205 ft Completed depth 180 ft

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	10	Brown sandy clay & sandy gravel with cobbles
10	115	Sandy gravel with conglomerate and boulders
115	120	Sand & gravel with conglomerate and boulders, small amounts of silty clay & sandy clay
120	165	Sandy & gravel with conglomerate and boulders
165	170	Conglomerate sand & gravel with boulders
170	180	Conglomerate brown clay with embedded rock
190	198	Brown clay
198	205	Tan sandy clay

(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in Item 12)
(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Municipal
Other Public
(Describe) _____

WELL LOCATION SKETCH

EQUIPMENT:
Pump Reverse
Air
Bucket

(6) GRAVEL PACK:
Yes No Size 1/2" x 3/8"
Diameter of bore 12" x 3/4"
Packed from 50 to 180

SCREENING INSTALLED:
Plastic Concrete

(8) PERFORATIONS:
Type of perforation S S Screen
Size of perforation _____

To ft.	Dia. in.	Gage or Wall	Frame ft.	To ft.	Slot size
180	12 3/4	025	80	198	.070

WELL SEAL:
Surface sanitary seal provided? Yes No If yes, to depth 50 ft
Annular space sealed against pollution? Yes No Interval _____ ft
Type of sealing Sand Grout On Pack

WATER LEVELS:
Depth of first water, if known _____ ft
Water level after well completion 29 ft

WELL TESTS:
Flow test made? Yes No If yes, by whom? _____ Weeks _____
Type of test Pump Bailor Air lift
Time at start of test 29 ft At end of test 123 ft
Flow rate 100 gal/min after 6 hours Water temperature 67°
Chemical analysis made? Yes No If yes, by whom? _____
Electric log made Yes No If yes, attach copy to this report

Work started 10-9 1991 Completed 10-22 1991

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed Ward Thompson (Well Driller)
NAME WEEKS DRILLING & PUMP CO.
(Person, firm, or corporation) (Typed or printed)
Address POB 176
City Sebastopol, CA ZIP 95473
License No. CS7-177681 Date of this report 11-14-91

RECEIVED
APR 23 1992
JAMES C. HANSON

DRILLER'S PUBLIC USE CODE SEC 13752

TREATMENT PLANT MONITORING WELL LOGS
(TP 1, TP 2, TP 3)

TP-1

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Copy

of 1 Well No. 1

No. 415770

Work Began 10/24/94, Ended 10/28/94

Permit Agency Lake County Public Health Dept.

Permit No. WE 1101 M Permit Date 08/04/94

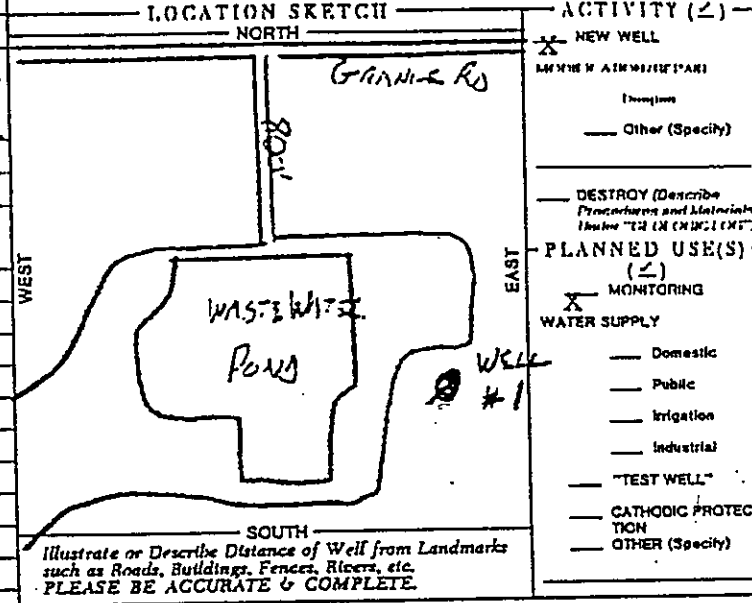
GEOLOGIC LOG

WELL OWNER

DEPTH FROM SURFACE		DESCRIPTION
to	Ft.	
0	1	Topsoil
1	3	Silty dark brown clay
3	4	Brown clays with sands and gravels
4	6	Sand and gravels
6	10	Silty light brown clays
10	15	Sand and gravel
15	20	Sand and gravel with brown clays
20	26	Sandy brown clays with embedded gravels
26	36	Sand and gravel with brown clays
36	40	Cemented sand and gravels with some clays
40	52	Fractured volcanic rock with some brown clays

Name Hidden Valley Lake C.S.D.
 Mailing Address c/o F & H Const., P.O. Box 55245
Stockton WELL LOCATION CA STATE 95213

Address 18896 Grange Road
 City Middletown, CA
 County Lake
 APN Book 014 Page 270 Parcel 10
 Township _____ Range _____ Section _____
 Latitude _____ Longitude _____



DRILLING METHOD Mud Rotary FLUID Bentonite
 WATER LEVEL & YIELD OF COMPLETED WELL
 DEPTH OF STATIC WATER LEVEL 23.9 (Ft.) & DATE MEASURED 10/28/94
 ESTIMATED YIELD 2 (GPM) & TEST TYPE Pump
 TEST LENGTH 2 (Hrs.) TOTAL DRAWDOWN 24 (Ft.)
 * May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 52 (Feet)
 TOTAL DEPTH OF COMPLETED WELL 50 (Feet)

DEPTH FROM SURFACE	CASING(S)							ANNULAR MATERIAL							
	FL	to	Ft.	BORE-HOLE DIA. (Inches)	TYPE (Z)			MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE			
					BLANK	SCREEN	CONDUIT					PIPE	FL	to	Ft.
0	30	8 3/4	X	F-480 PVC	4"	CL200		0	22.5	X					
30	50	8 3/4	X	F-480 PVC	4"	CL200	.020	22.5	52		X	#3 sand			

- ATTACHMENTS (Z)
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other _____
- ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME WEEKS DRILLING AND PUMP COMPANY by Ward Thompson
(PERSON, FIRM, OR CORPORATION) (PRINT OR TYPED)

ADDRESS P.O. Box 176 Sebastopol CA 95473
CITY STATE ZIP

Signed [Signature] DATE SIGNED 10/31/94 177681
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

Owner's Copy

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. 3

No. 415772

Date Work Began Oct. 24, 1994 Ended Oct 28, 1994

Local Permit Agency Lake County Public Health Department

Permit No. WE 1183-M Permit Date 08/04/94

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

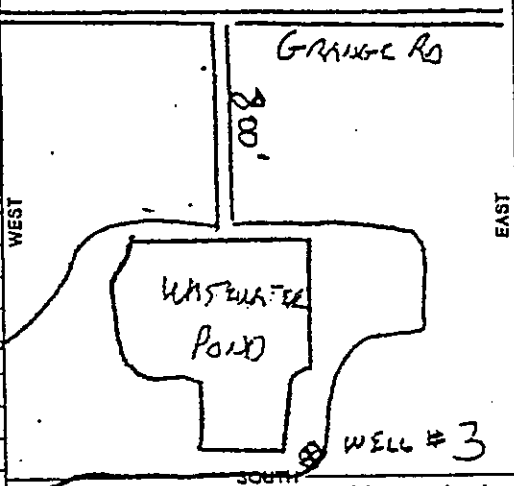
GEOLOGIC LOG

DEPTH FROM SURFACE		DESCRIPTION
FL.	to FL.	
0	1	Top soil
1	3	Silty brown clay
3	12	Sand and gravel
12	13	Multi-colored volcanics with brown clays
13	19	Fractured gray rock with some clays
19	37	Extremely hard gray rock with some gray clays
37	44	Extremely hard multi-colored volcanic rock with some clays
44	46	Gray clay and gray rock
46	52	Gray clay with embedded gray rock

Name HIDDEN VALLEY LAKE C.S.D.
 Mailing Address c/o F & H Const., P.O. 55245
Stockton WELL LOCATION STATE 95205

Address 18896 Grange Road
 City Middletown, CA
 County Lake
 APN Book 014 Page 280 Parcel 19
 Township _____ Range _____ Section _____
 Latitude _____ NORTH Longitude _____ WEST

LOCATION SKETCH NORTH



ACTIVITY ()

- NEW WELL
- MODIFICATION/REPAIR
 - Deepen
 - Other (Specify)
- DESTROY (Describe Prohibitions and Material Under "GEOLOGIC LOG")
- PLANNED USE(S) ()
 - MONITORING
 - WATER SUPPLY
 - Domestic
 - Public
 - Irrigation
 - Industrial
 - "TEST WELL"
 - CATHODIC PROTECTION
 - OTHER (Specify)

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD MUD ROTARY FLUID Bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 10.2 (Fl.) & DATE MEASURED 10/23/94

ESTIMATED YIELD 6 (GPM) & TEST TYPE Pump

TEST LENGTH 2 (Hrs.) TOTAL DRAWDOWN 37 (Fl.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 52 (Feet)

TOTAL DEPTH OF COMPLETED WELL 50 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						ANNULAR MATERIAL						
		FL.	to FL.	TYPE ()	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	FL.	to FL.	CEMENT ()	BENTONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	14	8 3/4	X		F-480 PVC	4"	CL200		0	10	X			
14	50	8 3/4	X		F-480 PVC	4"	CL200	.020	10	52			X	#3 sand

- ATTACHMENTS ()
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other
- ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME WEEKS DRILLING AND PUMP COMPANY by Ward Thompson
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS P.O. Box 176 Sebastopol CA 95473

Signed [Signature] DATE SIGNED 10/31/94 177001
 WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED 05/ CASE NUMBER

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Copy 1 of 1

Well No. 2 No. 415771
 Work Began 10/24/94 Ended 10/28/94
 Local Permit Agency Lake County Public Health Department
 Permit No. WE 1102-M Permit Date 8/4/94

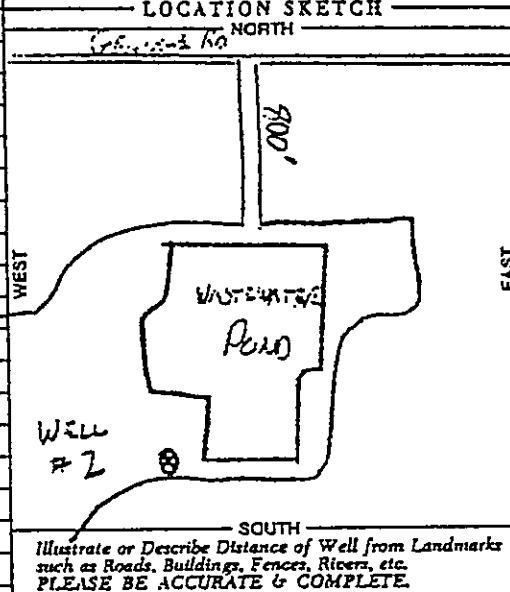
STATE WELL NO./STATION NO. _____
 LATITUDE _____ LONGITUDE _____
 APN/TRS/OTHER _____

GEOLOGIC LOG

DEPTH FROM SURFACE		DESCRIPTION
FL.	to FL.	
0	1	Top soil
1	9	Stiff brown clays with embedded rock
9	12	Volcanic conglomerate with brown clays
12	19	Fractured gray rock
19	25	Fractured gray rock with some gray clays
25	52	Gray clay with fractured gray rock

WELL OWNER

Name HIDDEN VALLEY LAKE C.S.D.
 Mailing Address c/o F & H Const., P.O. Box 55245
Stockton CA 95205
 CITY STATE ZIP
 WELL LOCATION
 Address 18896 Grange Road
 City Middletown, CA
 County LAKE
 APN Book 014 Page 280 Parcel 19
 Township _____ Range _____ Section _____
 Latitude _____ NORTH Longitude _____ WEST
 DEG. MIN. SEC. DEG. MIN. SEC.



ACTIVITY (✓)
 NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify) _____
 DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
 PLANNED USE(S) (✓)
 MONITORING
 WATER SUPPLY
 Domestic
 Public
 Irrigation
 Industrial
 "TEST WELL"
 CATHODIC PROTECTION
 OTHER (Specify) _____

DRILLING METHOD MUD ROTARY FLUID Bentonite
 WATER LEVEL & YIELD OF COMPLETED WELL
 DEPTH OF STATIC WATER LEVEL 11.5 (FL) & DATE MEASURED 10/28/94
 ESTIMATED YIELD 3.5 (GPM) & TEST TYPE Pump
 TEST LENGTH 2 (Hrs.) TOTAL DRAWDOWN 36 (FL)
 * May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)					DEPTH FROM SURFACE	ANNULAR MATERIAL								
		TYPE (✓)						TYPE								
FL.	to FL.	BLANK	SCREEN	COAK	DOUBLE	FULL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	FL.	to FL.	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	14						E-480 PVC	4"	CL200		0	11	X			
14	50		X				E-480 PVC	4"	CL200	.020	11	52			X	#3 Sand

ATTACHMENTS (✓)
 Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other _____

CERTIFICATION STATEMENT
 I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
 NAME WEEKS DRILLING AND PUMP COMPANY by Ward Thompson
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
P.O. Box 176 Sebastopol CA 95473
 ADDRESS CITY STATE ZIP
 Signed Ward Thompson 10/31/94 177681
 WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

GOLF COURSE 18TH TEE MONITORING WELL LOG

(MW 4)

ORIGINAL with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

No 20869

State Well No.

Other Well No. 11N/6W-20

30x607
150 BLUFF, Cal 96080

OWNER: HIDDEN VALLEY LAKE
Address: MIDDLETOWN CALIF 95461

(11) WELL LOG:
Total depth ft. Depth of completed well ft.

Formation: Describe by color, character, size of material and structure
0 TO 20' Brown top Soil
10 TO 30' Brown Clay with HEAVY ROCK
30 TO 100' Blue with BLUE ROCK

LOCATION OF WELL:
Name: LAKE
Owner's number, if any
Twp, Range, and Section
Distance from cities, roads, railroads, etc.

TYPE OF WORK (check):
New Well Deepening Reconditioning Destroying
Instruction, describe material and procedure in Item 11.

PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other
(5) EQUIPMENT:
Rotary
Cable
Other

CASING INSTALLED: STEEL: OTHER: SINGLE DOUBLE If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
110	123 1/4	12 3/4	250			

Size of those or well ring: 12 3/4 x 1/2 x 44
Describe joint: BUT WELD

PERFORATIONS OR SCREEN:
Type of perforation or name of screen: CENTRAL VALLEY MFG CO.

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
30'	95'			1/2

CONFIDENTIAL LOG
Water Code Sec. 13752

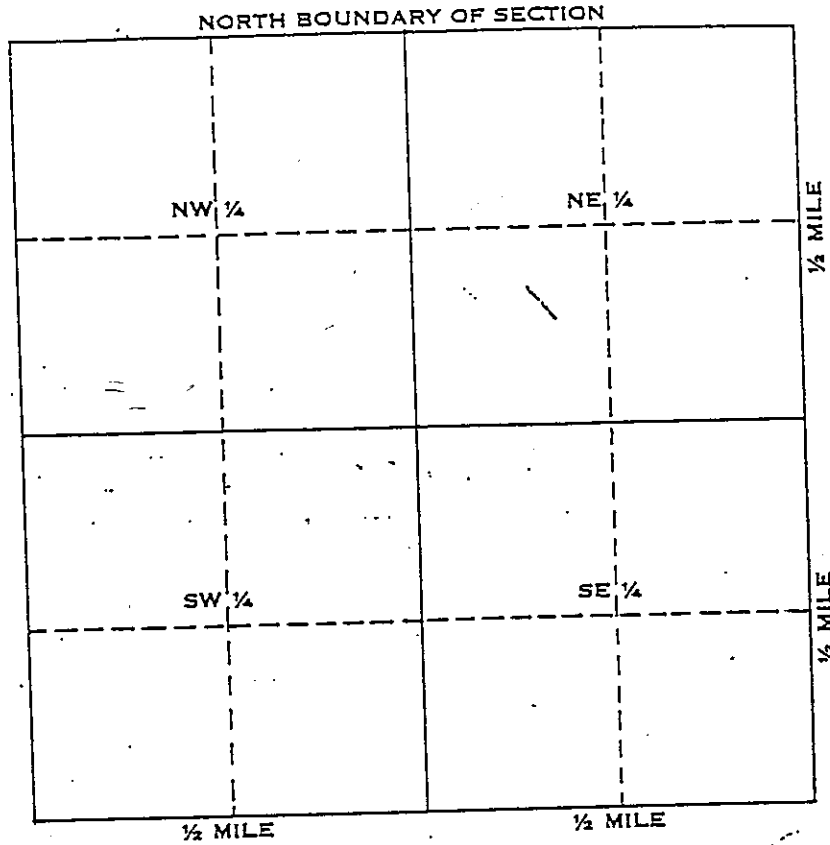
CONSTRUCTION:
Is a surface sanitary seal provided? Yes No To what depth ft.
Were any struts sealed against pollution? Yes No If yes, note depth of struts
ft. to ft.
ft. to ft.
Method of sealing

Work started 6-4-73, Completed 6-12-73

WATER LEVELS:
Depth at which water was first found, if known ft. 30
Static level before perforating, if known ft. 30
Static level after perforating and developing ft. 30
WELL TESTS:
Pump test made? Yes No If yes, by whom?
Is gal./min. with ft. drawdown after hrs.
Temperature of water Was a chemical analysis made? Yes No
Electric log made of well? Yes No If yes, attach copy

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME: EUGENE HOUSON
(Person, firm, or corporation) (Typed or printed)
Address: PO BOX 65
DOWNEY CALIF
(SIGNED) Eugene Houson
License No. 198290 Dated 6-18-73

WE: LOCATION SKETCH

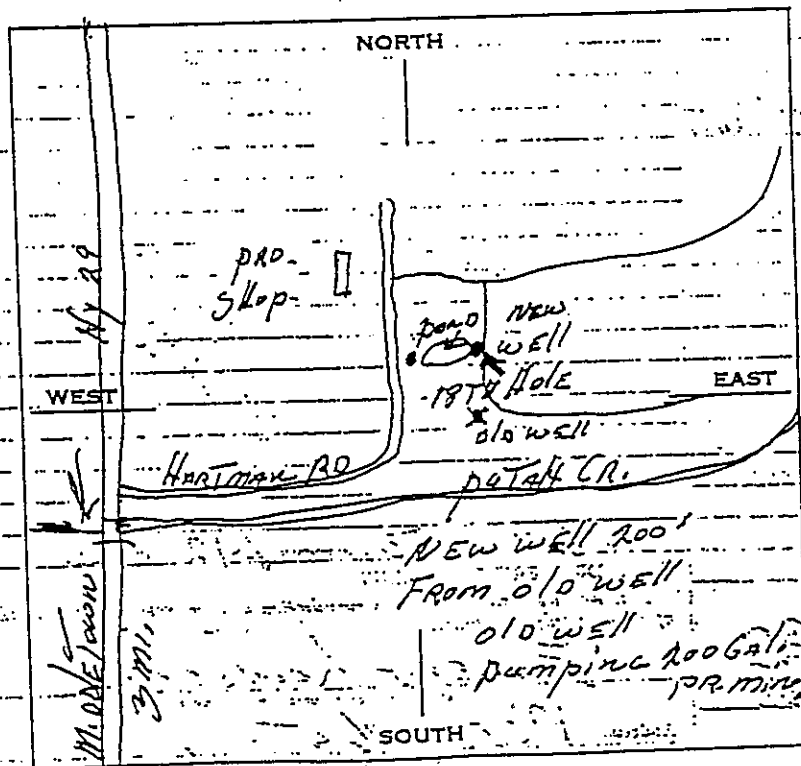


Township _____

Range _____

Section No. _____

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.
Sketch roads, railroads, streams, or other features as necessary.
Indicate distances.

DEDICATED MONITORING WELLS

GEOTECHNICAL REPORT

(MW 1, MW 2, MW 3)



TRANS TECH CONSULTANTS

ENVIRONMENTAL AND GEOTECHNICAL SERVICES

October 15, 1996
Job No. 4071.01.01

Mr. Robert Wagner
James C. Hanson Consulting Civil Engineer
444 N. Third, Suite 400
Sacramento, California 95814

Summary of Field Activities
Monitoring Well Installations
Hidden Valley Lake CSD
Lake County, California

Dear Mr. Wagner:

This letter describes the field investigation activities and transmits the logs for the installation of monitoring wells at three locations for the Hidden Valley Lake Community Services District (CSD), Lake County, California. The well locations are indicated on the attached Location Map, Plate 1. Our scope of services consisted of logging the subsurface conditions encountered during drilling of the borings, providing guidelines for construction of the wells, and summarizing our findings in this letter.

FIELD ACTIVITIES

Prior to the field work, we reviewed published geologic maps for the site and vicinity and a January 6, 1993 report *Geology and Ground Water in Coyote Valley* by Charles Van Alstine, Geological/Geotechnical Engineer. From September 3 to 11, 1996, our engineering geologist observed the drilling of wells MW-1A and B, MW-2A and B, and MW-3A and B by Weeks Drilling of Santa Rosa, California. The borings were drilled to depths ranging from 82 and 100 feet, using a truck-mounted Failing 1500 rotary wash drill rig, equipped with a 6 5/8-inch diameter bit.

Our engineering geologist logged the subsurface conditions by observing the drill cuttings circulated out of the borehole. Lithologic logs of the borings are attached as Plates 2 through 4. The soils encountered were classified using the Unified Soil Classification System described on Plate 5.

At the completion of drilling, the borings were circulated with clean water (provided by the CSD) to flush out the drilling mud and monitoring wells were installed. The well completion detail for each of the wells is shown on the attached boring logs. The wells were constructed of 2.0-inch diameter Schedule 40 PVC casing with machine slotted 0.020 well screens. In each boring, two wells were completed; one screened in the bottom 5 to 10 feet of the boring (designated as well "A" on each log), and a second well screened for 5 feet near the top of the estimated water table (designated well "B"). The purpose of the dual well completion was to allow measurement of slight differences in water levels, as a possible indicator of vertical ground-water gradients. Because the rotary wash method obscures the location of the water table during drilling, the depth to water was estimated from well logs of previously drilled production wells and by comparing the elevation difference between standing water in Putah Creek and the boring locations.

The annular space around the screened interval for each well was backfilled with either Lonestar #3 or #2/12 sand. Portions of the borings between screened intervals were backfilled with clean sand or gravel cuttings generated during drilling, or clean gravel obtained from American Rock Quarry. In well MW-2A and B, a clayey sand layer was encountered from 75 to 78 feet. During well construction, a bentonite pellet seal was placed across this interval to hydraulically isolate the deeper well screen from the shallower, in the event that the clayey sand acts as a confining layer. The upper 20.6 to 27.5 feet of the borings were backfilled with a cement-bentonite grout seal using the tremie method. The grout seals were placed under the observation of Mr. Manuel Ramirez of the Lake County Department of Environmental Health. The well casings extend about 2 feet above surrounding grade and are secured within locking steel well vaults.

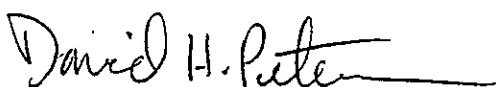
SUBSURFACE CONDITIONS

The borings encountered alluvium consisting predominantly of interbedded coarse sand and gravel with little or no fines (i.e., silt or clay). The gravels range in size from about 0.5 to 2 inches in diameter, although the drillers noted layers of boulders in boring MW-3A and B. Clayey sand strata were noted from a depth of 80 to 87 feet in boring MW-1A and B and from 75 to 78 feet in boring MW-2A and B. We do not have sufficient subsurface data to assess if this clayey sand stratum is continuous between the two borings. However, based on our field observations, the clayey sand appears to be moderately permeable. We consider it unlikely that the clayey sand stratum represents a confining layer between separate aquifers. Water level data from MW-2A and B will no doubt provide additional data about hydraulic connection across the clayey sand layer.

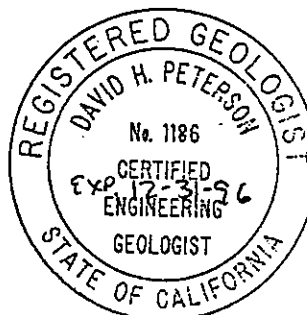
Based on the geologic conditions encountered, as well as review of well logs for the Grange Road Wellfield, it appears that ground water within the upper 100 feet of alluvium in the project area occurs within highly permeable strata and is largely unconfined, or locally semi-confined by thin layers of moderately permeable clayey sand.

I trust this provides the information you require. If you have questions about our findings, please call me at (707) 575-8622.

Very truly yours,
TRANS TECH CONSULTANTS



David H. Peterson
Engineering Geologist - 1186

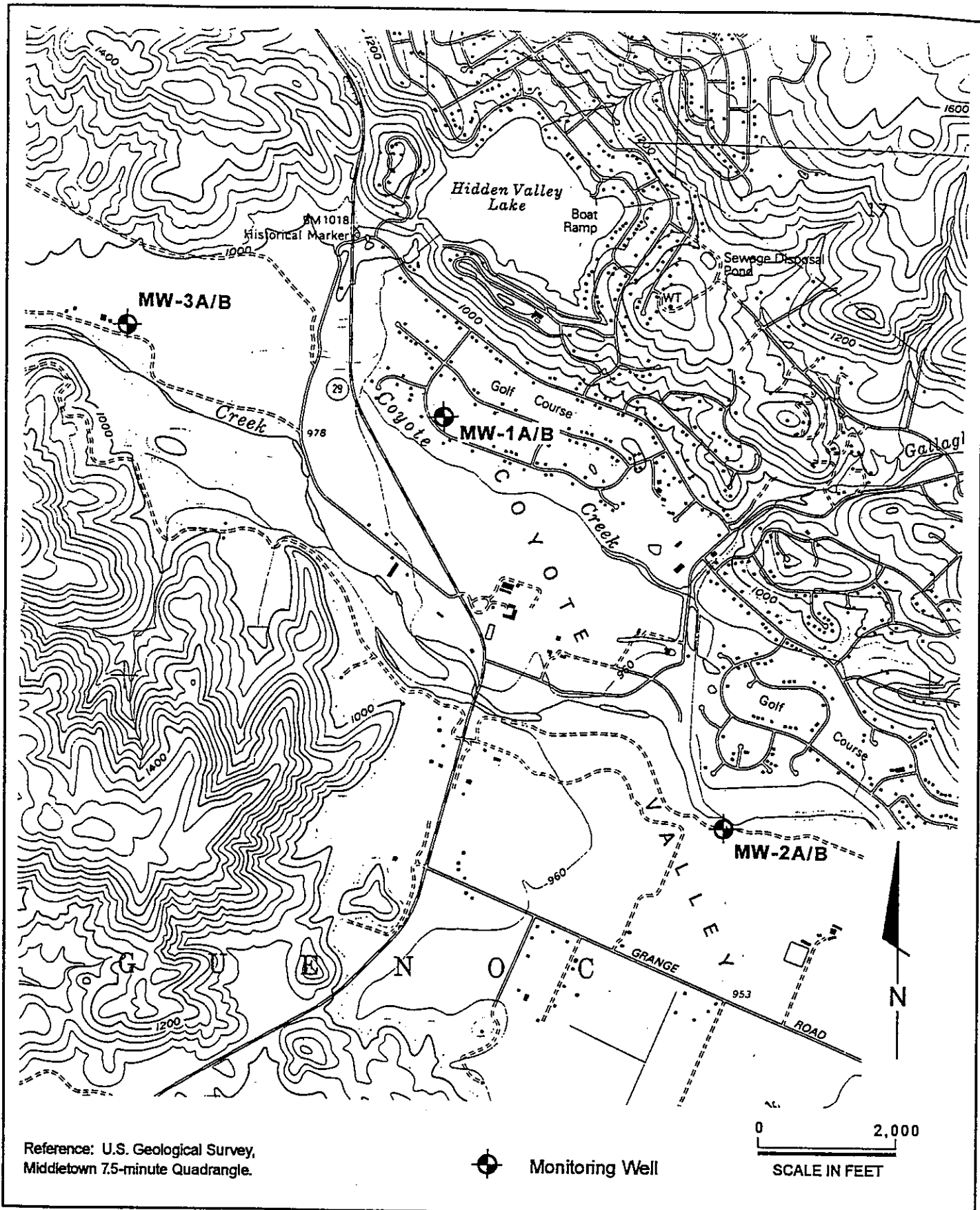


DHP\EMK:smc\01-01.lt1

Attachments: Location Map, Plate 1
Logs of Borings, Plates 2 through 4
Unified Soil Classification System, Plate 5

One original and two copies submitted





TRANS TECH CONSULTANTS
ENVIRONMENTAL AND GEOTECHNICAL SERVICES

Location Map
Hidden Valley Lake CSD
Lake County, California

PLATE

1

JOB NUMBER
4071.01.01

DRAWN
DHP

APPROVED
DHP

DATE
10/96

Log of Boring MW-1A and B

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-5-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

Description

MW-1A
MW-1B

6-5/8 inch diameter
borehole 0 to 100 ft

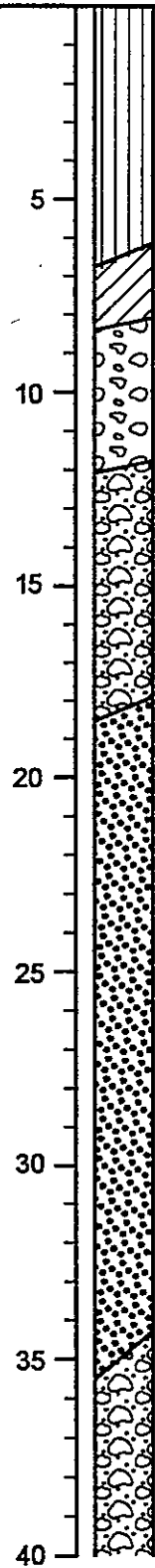
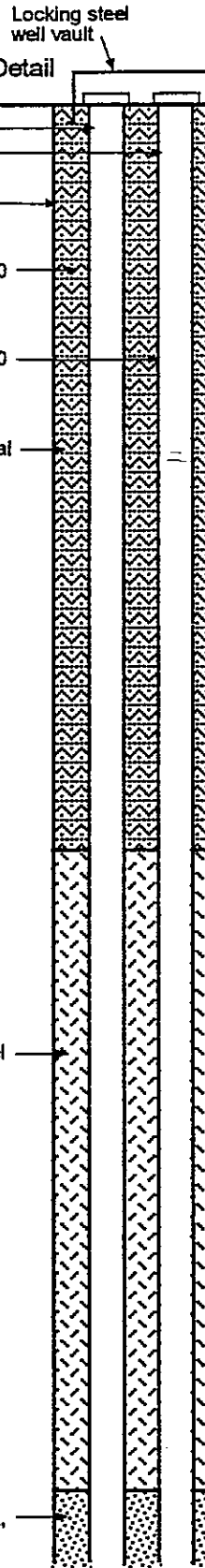
2 inch diameter Sch 40
PVC Blank casing,
0 to 74.0 ft

2 inch diameter Sch 40
PVC Blank casing,
0 to 40.0 ft

Bentonite - cement seal
0 to 20.6 ft

Native sand and gravel
backfill, 20.6 to 38.0 ft

Lonestar #3 sandpack,
38.0 to 46.5 ft



BROWN SANDY SILT (ML) stiff, moist,
with fine grained sand; slightly clayey

BROWN SANDY CLAY (CL) stiff, with fine
grained sand

BROWN CLAYEY SANDY GRAVEL (GC)
coarse sand, gravel to 2 inch diameter
(Alluvium)

GRAY BROWN SANDY GRAVEL (GP)
with 20-30% coarse sand

increasing coarse sand

GRAY GRAVELLY SAND (SP) well rounded
gravel to 0.5 inch diameter, 10-15% gravel
over 0.5 inch diameter, coarse sand

with occasional gravel interbeds

(circulation loss at 30.0 ft
loose, hole caving, coarse sand and

(continued caving)
GRAY GRAVEL (GP) well rounded, to 3 inches
diameter, minor sand



Log of Boring MW-1A and B
Hidden Valley Lake CSD
Lake County, California

PLATE

2

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DMP

DATE
10/96

Log of Boring MW-1A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-5-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

Description

MW-1A
MW-1B

2 inch diameter slotted
0.02 screen, 40.0 to 45.0 ft

Lonestar #3 sand,
38.0 to 46.5 ft

Native sand and gravel
backfill 46.5 to 70.5 ft

Bentonite pellet seal
70.5 to 71.0 ft

Lonestar #3 Sandpack
71.0 to 80.0 ft

2 inch diameter slotted
0.02 screen,
74.0 to 79.0 ft

Hole cleaned out to
80.0 ft

45

50

55

60

65

70

75

80

GRAY SAND (SP) loose, coarse grained,
with occasional gravel to 1 inch diameter

GRAY GRAVEL (GP) loose, well
rounded, to 2 inches diameter

GRAY SAND (SP) coarse grained

with 10-15% gravel to 1 inch diameter

medium to coarse grained sand

with gravel interbeds 1 to 3 ft thick

DARK GRAY GRAVEL (GP) with minor
coarse sand

GRAY SAND (SP) loose, coarse grained with
occasional interbedded gravel



Log of Boring MW-1A and B, continued
Hidden Valley Lake CSD
Lake County, California

PLATE

2

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DHP

DATE
10/96

Log of Boring MW-1A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-5-96

Well Completion Detail

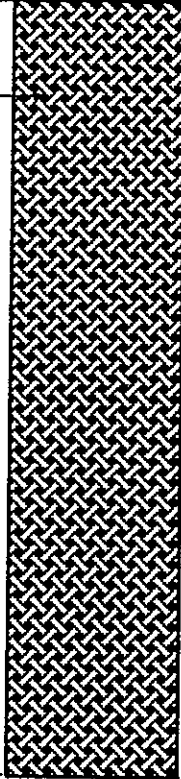
Blows / ft.

Depth (ft)

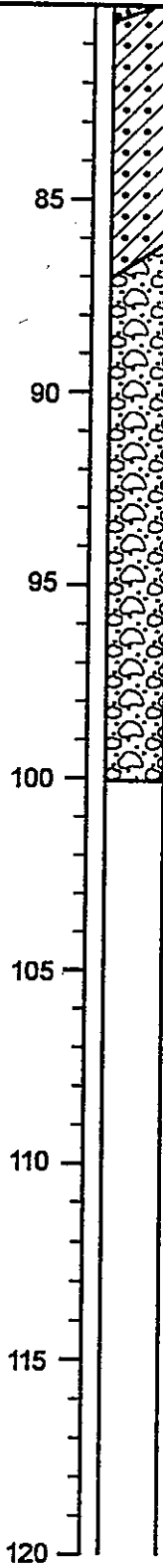
Sample

Description

Bentonite and native (caved) material



Bottom of borehole
100 ft



BROWN CLAYEY SAND (SC) medium dense, with 30-40% clay, fine to medium grained sand

GRAY GRAVEL (GP) loose to medium dense, well rounded, with gravels to 2 inch diameter, and interbedded coarse sand strata

interbedded gravel and coarse sand

Bottom of hole at 100.0 ft, caved to 80 ft

Log of Boring MW-2A and B

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-9-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

Description

MW-2A
MW-2B

6-5/8 inch diameter borehole 0 to 100 ft

2 inch diameter Sch 40 PVC Blank casing, 0 to 86.0 ft

2 inch diameter Sch 40 PVC Blank casing, 0 to 35.0 ft

Bentonite - cement seal 0 to 27.5 ft

Bentonite pellet seal 27.5 to 30.0 ft

Lonestar #3 sandpack, 30.0 to 45.0 ft

2 inch diameter slotted 0.02 screen, 35.0 to 40.0 ft

Locking steel well vault

BROWN SANDY SILT (ML) stiff, dry, voids in upper 1 ft, fine grained sand

GRAY BROWN SANDY GRAVEL (GP) loose to medium dense, well rounded, with coarse sand (Alluvium)

increasing sand

interbedded coarse sand and gravel strata

with gravel to 2 inches diameter, well rounded

predominantly well rounded gravel, 0.5 to 2 inches diameter, with occasional interbedded coarse sand

GRAY SAND (SP) coarse gravel, no fines

GRAY GRAVEL (GP) rounded to subangular, to 2-1/2 inches diameter



Log of Boring MW-2A and B
Hidden Valley Lake CSD
Lake County, California

PLATE

3

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DAP

DATE
10/96

Log of Boring MW-2A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-9-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

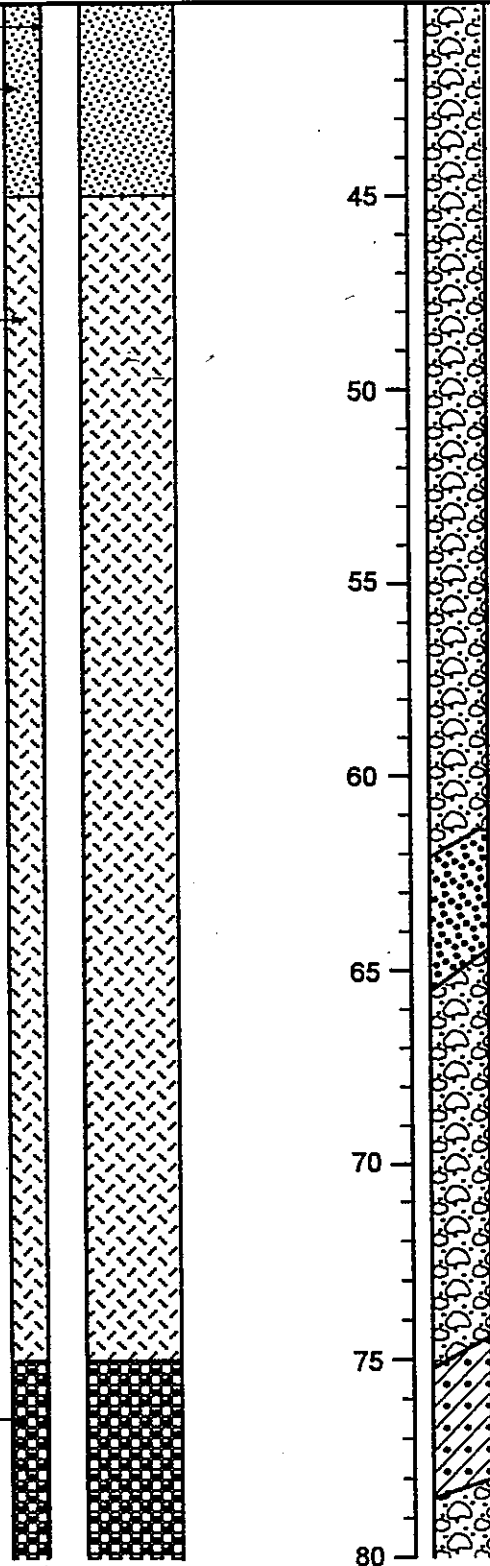
Description

MW-2A

Lonestar #3 sandpack,
30.0 to 45.0 ft

Native sand and gravel
backfill 45.0 to 75.0 ft

Bentonite pellet seal
75.0 to 81.0 ft



GRAY GRAVEL (GP) rounded to subangular, to 2-1/2 inches diameter

with sand interbeds

GRAY SAND (SP) coarse grained, with rounded gravel

GRAY GRAVEL (GP) well rounded, no fines

BROWN CLAYEY SAND (SC) medium dense, fine grained sand with 30-35% clay



Log of Boring MW-2A and B, continued
Hidden Valley Lake CSD
Lake County, California

PLATE

3

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DWP

DATE
10/96

Log of Boring MW-2A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-9-96

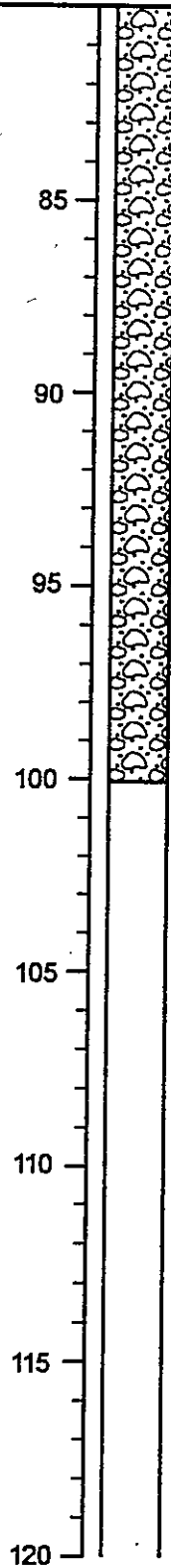
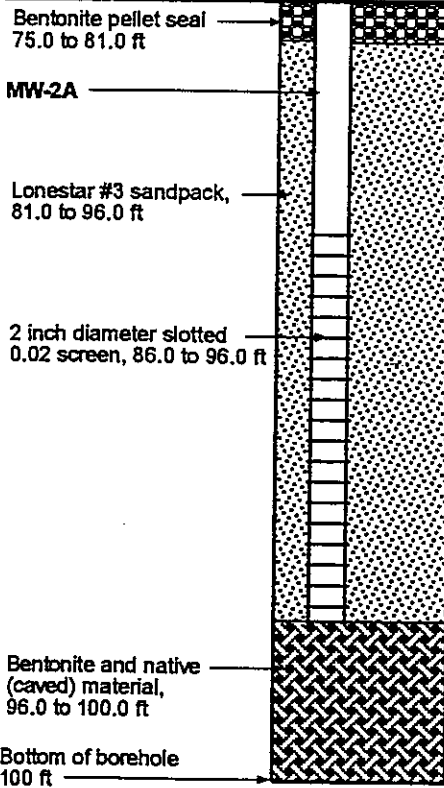
Well Completion Detail

Blows / ft.

Depth (ft)

Sample

Description



GRAY SANDY GRAVEL (GP) medium dense, rounded to subangular to 2 inches diameter, with coarse sand

with coarse sand interbeds

Bottom of hole at 100.0 ft, caved to 96.0 ft

Log of Boring MW-3A and B

Equipment Type: 6-5/8 Inch Rotary Wash

Elevation: _____ Date: 9-11-96

Well Completion Detail

MW-3A
MW-3B

6-5/8 inch diameter borehole 0 to 82.0 ft

2 inch diameter Sch 40 PVC Blank casing, 0 to 70.0 ft

2 inch diameter Sch 40 PVC Blank casing, 0 to 30.0 ft

Bentonite - cement seal 0 to 23.0 ft

Bentonite pellet seal 23.0 to 24.0 ft

Lonestar #2/12 sandpack, 24.0 to 35.0 ft

2 inch diameter slotted 0.02 screen, 30.0 to 35.0 ft

1 inch diameter gravel backfill, 35.0 to 67.0 ft

Blows / ft.

Depth (ft)

Sample

Description

BROWN SANDY SILT (ML) stiff, dry (Fill)

BROWN SANDY CLAY (CL) stiff, fine grained sand

GRAY BROWN SANDY GRAVEL (GP) well rounded gravel to 1/2 inch diameter, 15-20% coarse sand (Alluvium)

gravel size increasing to 2 inch diameter

GRAY GRAVELLY SAND (SP) coarse grained, with 10-15% well rounded gravel

with occasional interbeds of well rounded gravel

increasing gravel from 35 ft to 38 ft



Log of Boring MW-3A and B
Hidden Valley Lake CSD
Lake County, California

PLATE

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JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DWP

DATE
10/96

Log of Boring MW-3A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-11-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

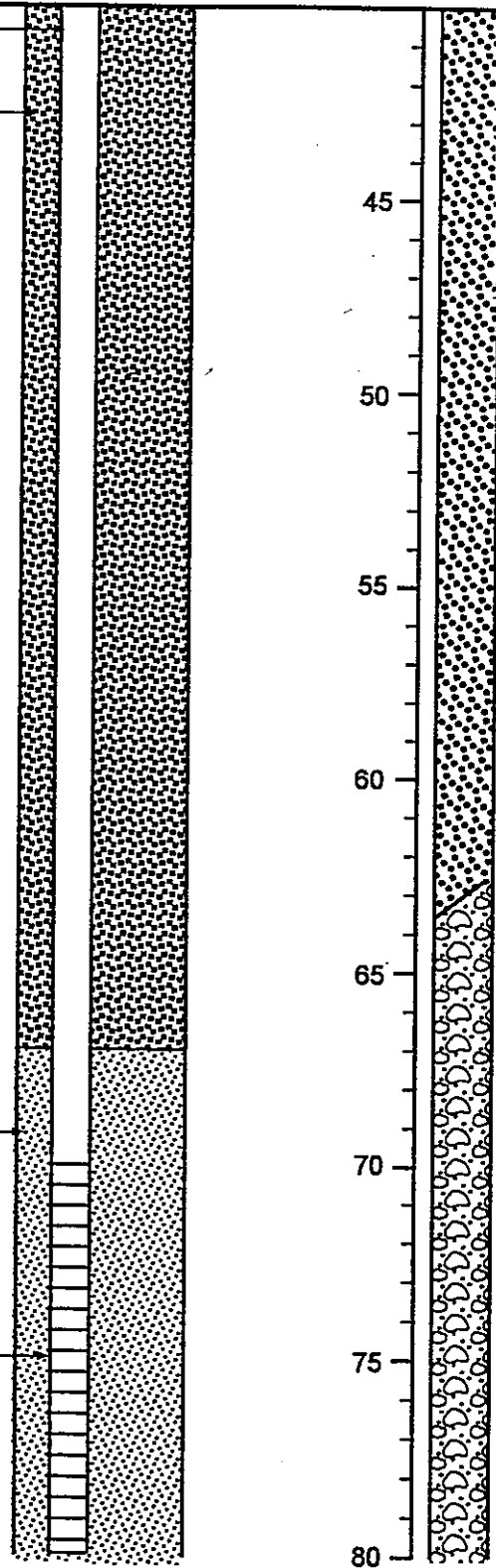
Description

MW-3A

1 inch diameter gravel
backfill (American Rock
Quarry), 35.0 to 67.0 ft

Lonestar #2/12 Sandpack
67.0 to 80.0 ft

2 inch diameter slotted
0.02 screen,
70.0 to 80.0 ft



coarse sand and rounded gravel, no fines

coarse sand with 20-30% gravel

decreasing gravel, mainly sand

SANDY GRAVEL (GP) subangular to well rounded
to 2 inch diameter, coarse sand, no fines

(driller reports boulders at 70.0 ft)

(caving; driller reports larger gravels)

mainly well rounded gravel to 2 inch diameter,
10-15% coarse sand, no fines

(driller reports nest of boulders at 80.0 ft;
hole not advancing)



Log of Boring MW-3A and B, continued
Hidden Valley Lake CSD
Lake County, California

PLATE

4

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DRP

DATE
10/96

Log of Boring MW-3A and B, cont.

Equipment Type: 6-5/8 inch Rotary Wash

Elevation: _____ Date: 9-11-96

Well Completion Detail

Blows / ft.

Depth (ft)

Sample

Description

Bentonite and native
(caved) material,
80.0 to 82.0 ft



boulders at 82.0 ft; Bottom of boring at 82.0 ft

85
90
95
100
105
110
115
120



Log of Boring MW-3A and B, continued ^{PLATE}
Hidden Valley Lake CSD
Lake County, California

4

JOB NUMBER
4071.01.01

DRAWN
PM

APPROVED
DWP

DATE
10/96

PLATES