Valley Water

*Surveyor*: Sandy Morgans

# Water Wise Outdoor Survey

**Provided by Valley Water**

**Case ID**: AVW-9106 **Survey Date**: 11/28/2022 **Time**: 9:30 AM ☑ Owner ☐ Rent ☑ Full Survey ☐ Representative

**Customer Name**: Vasu Vijay **Water Retailer**: City of Santa Clara

Address: 688 Bancroft Street City: Santa Clara Zip: 95051

Phone: 512 949 9245 Other Phone: _____ Property Type: ☑ SF Residential ☐ MF Residential ☐ Institutional ☐ Commercial ☐ Industrial

Number of Residents: 2 Email Address: vasu_vijay@yahoo.com

Site Name: Vijay Residence Site Address (if different): _____

Interested in Other Programs: ◉ Yes ○ No DIY Indoor Survey Kit given to customer: ○ Yes ◉ No

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## Water Use Information

*1 Unit = One Hundred Cubic Feet (Ccf) of Water = 748 Gallons*
*One Cubic Foot of Water = 7.48 Gallons*

Water Bill Frequency: ◉ Monthly ○ Bi-Monthly

### Water Leak Check

The surveyor will conduct a two-minute leak check at the water meter with all indoor and outdoor water turned off.

Meter Sweep-Hand:
1st Dial Setting: na
2nd Dial Setting: na
Difference is Leak Amount: na Cubic Feet

Water Leak Detected: ○ Yes ○ No
Leak is Located: ☐ Inside ☐ Outside

**Water Leak in Gallons per Day**:
(multiply cubic feet by 5385.6)

Water Leak Explanation: _____

### Current Water Use

Last Water Meter Reading: 2234 Date: 10/25/2022 Days Since Last Reading: 34 Days
Water Meter Reading Today: 2238

**Water Use in Gallons per Day**:
(Difference in Ccf between readings divided by number of days and multiplied by 748)

88 Average per day

### Landscape Measurements

**Turf Area**: Front: not measured
Back: not measured
Side: not measured

**Pool Area**: NA

**In-line Drip Conversion Area**: NA

# Property Information

## Pool and Spa Information

| Item | Covered to Prevent Evaporation | Item | Covered to Prevent Evaporation |
|---|---|---|---|
| **Swimming Pool** ○ Yes ◉ No | ○ Yes ○ No | **Hot Tub/Spa** ○ Yes ◉ No | ○ Yes ○ No |

## System Information

| Point of Connection | Water Pressure | Pressure Regulating Valve (On site) |
|---|---|---|
| ◉ Acceptable ○ Not Acceptable<br><br>Issues: | At spigot: 56 PSI<br><br>Location: front yard<br>☐ Low<br>☑ Acceptable<br>☐ High | ○ Yes ◉ No |

## Landscape Information

| Total Irrigated Area | Soil Type | Lawn Type | Thatch Build-up |
|---|---|---|---|
| not measured | ☐ Clay ☑ Clay Loam<br>☐ Loam ☐ Sandy Loam<br>☐ Sandy | ☑ Cool Season<br>☐ Warm Season<br>☐ Mixed | ◉ Yes ○ No |

## Irrigation Information

| Irrigation Controller | Total Number of Active Stations | How often is controller schedule adjusted? | Based on current weather conditions, the controller is: |
|---|---|---|---|
| Brand/Model: Rain Dial<br><br>Smart Controller: ○ Yes ◉ No | 16 | ☐ Monthly<br>☐ Seasonally<br>☐ Never<br>☑ As Needed | ☑ Extremely overwatering<br>☐ Good<br>☐ Poor<br>☐ Very Poor |
| Brand/Model: Rain Bird<br><br>Smart Controller: ○ Yes ◉ No | Total stations surveyed: 15 | | |

## Surveyor Notes

*Outdoor leak?* ◉ Yes ○ No

*Landscape, Irrigation, and Outdoor Leak Notes:*

Several leaks were observed and flagged in both front and back yard. There was one leaking valve in back yard. Additionally, it was noted that a station in backyard was incorrectly wired and therefore 'double-watered'.

There were many damaged sprinkler nozzles in turf areas and so the spray pattern was affected in many instances. Further, a few tilted sprayers (indicated as 'L' on Survey Form 3) were noted which would affect its expected performance. There were many sprayers that needed arc and radius re-alignment as this was causing overspray (onto pavement creating some run-off; onto wood fencing) which is wasted water. There were a few blocked sprayers from either trees and in one case, a fire hydrant. A thorough irrigation system maintenance is strongly suggested, an performed 2-3/year beyond.

# Irrigation Inspection

Controller Number: 1 - Front and Side Yard Page 1 of 2
Controller Model: Rain Dial RD1200

## Plant Type per Station

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plant | x | CS | CS | CS | CS | PM | PM | CS | CS | CS | | |

Plant Type Classification:

| | | | | | |
|---|---|---|---|---|---|
| Cool Season Lawn | CS | Annual Flower Beds | AF | Plants—Medium Water Use | PM |
| Warm Season Lawn | WS | Plants—High Water Use | PH | Plants—Low Water Use | PL |
| Tree – Med. Water Use | T | | | | |

## Sprinkler System Type per Station

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| System | X | S | S | S | S | DE | DE | CS | CS | CS | | |

System Type Classification:

| | | | | | |
|---|---|---|---|---|---|
| Rotors | R | Drip Emitter | DE | Bubbler | B |
| Sprayheads | S | Rotating Nozzles | RN | Micro Spray Irrigation | MS |
| In-Line Drip | ID | | | | |

## Slope per Station

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Slope | N | N | N | N | N | N | N | N | N | N | | |

System Type Classification:

| | | | | | |
|---|---|---|---|---|---|
| None | N | Gentle | G | Steep | S |

## Irrigation System Problems per Station

| Station | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | | | | | | | | | | | | |
| BS | | | | | | | | | | | | |
| BL | | | | | | | | | | | | |
| MS | | | | | | | | | | | | |
| PRV | | | | | | | | | | | | |
| L | | X | X | X | X | | | X | X | X | | |
| C | | | | | | | | | | | | |
| O | | X | X | X | X | | | X | X | X | | |
| A | | X | X | X | X | | | X | X | X | | |
| MDE | | | | | | | | | | | | |
| I | | X | X | | | | | X | X | X | | |
| NR | | | | | | | | | | | | |
| PTH | | X | X | X | X | | | X | X | X | | |
| PTL | | | | | | | | | | | | |

Irrigation Problems Classification:

| | | | | | |
|---|---|---|---|---|---|
| Non-Operational Valve | NO | Low or Sunken Sprinklers | L | Interference or Blocking | I |
| Broken or Leaking Sprinkler | BS | Clogged Sprinkler Nozzles | C | Sprinkler Not Rotating | NR |
| Broken Irrigation Line | BL | Overspray—Adjust Radius | O | Pressure Too High | PTH |
| Mixed Sprinkler Types | MS | Arc Alignment Needs Adjustment | A | Pressure Too Low | PTL |
| No Pressure Reducing Valve Installed (Drip stations only) | PRV | Missing Drip Emitters (Drip stations only) | MDE | | |

Case ID: AVW-9106

# Irrigation Schedule

Controller Number: 1 Page 1 of 2
Controller Model: Rain Dial RD1200
Controller Location: Inside Garage

## Current Irrigation Schedule

Current Schedule is for:
(Winter only irrigate as needed)

- ☐ Spring
- ☑ Summer
- ☐ Fall

Start Times:
1. 
2. 
3. 

| Station Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minutes Per Cycle | X | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| Cycles Per Day | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Days Per Week | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Total Minutes Per Week | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | |

## Recommended Irrigation Schedule

Reference the attached Valley Water Irrigation Schedule document as a guide to adjust your irrigation controller.

### Irrigation Schedule Notes

The irrigation turf areas were adequately watered under the current drought watering restrictions. Encouraged customer to consider Valley Water's rebate offer for a smart controller upgrade. There is potentially up to 40% water savings by using automated seasonal adjusts for watering times and daily watering adjustments. For now, consult the the attached Drought Irrigation Watering Schedule to adjust your current controller.

**This controller has been modified**: ◯ Yes ◯ No

**Local Irrigation Ordinances**: 

**Case ID**: AVW-9106

# Drought Irrigation Schedule

Valley Water

## Purpose

*You can reduce your outdoor water use by restricting your watering schedule.*

Santa Clara County is in a severe drought. In April 2022, Valley Water implemented a restricted watering schedule, limiting irrigation of non-functional lawns to two days or less per week. While this reduction in outdoor water use is not intended to keep a lush, green lawn, it will allow you to maintain your landscape while reducing watering by a third. Your water retailer may have a more stringent watering schedule depending on the season; Please visit ***valleywater.org/find-my-retailer*** to find your water retailer and learn about their latest watering requirements.

To use the drought irrigation schedule*, find the sprinkler or drip type that most closely resembles your system. Use the suggested watering times as a starting point and then adjust as necessary, keeping within the two day per week schedule. Signs of stress on your landscape will be expected, but keep an eye out for runoff and pooling, and reduce watering times to save even more water.

## Irrigation Tips

*Sprinkler head adjustment for less water waste.*

**Sun vs. Shade:** Plants growing in shady areas (north/east side of your home) will generally require 50% less water than the same plants in full sun. To account for this, adjust your watering schedule to apply less water.

**Cycle and Soak Method:** Clay soils, commonly found in Santa Clara County, absorb water slowly. Sprinklers and drip irrigation may apply water at a faster rate than the soil can absorb, causing runoff. Instead of setting your schedule to water one long cycle per day, set it to water multiple shorter cycles per day, with 30-minute breaks in between cycles, as the schedule on the next page indicates. This cycle and soak method will allow the water to soak in and encourage deeper roots.

**Time of Day:** The optimum time to water your lawn or landscape is before 7 AM and after 7 PM when the sun is down, and the temperature is cooler.

**Slope:** Water plants on slopes more frequently for shorter durations to prevent run off waste. The cycle and soak method is effective for sloped areas.

**Trees:** Tree watering is not limited to two days per week. Please maintain healthy trees with adequate irrigation. Programmed irrigation controller scheduling may not allow for the infrequent deep watering required for tree health. Supplemental manual irrigation may be needed.

**Potted Plants and Vegetable Gardens:** Potted plants and vegetable garden watering is not limited to a two day per week irrigation schedule.

*This schedule assumes your yard is located in Santa Clara County, and your established landscape is in full sun with clay soil and no slope.

## More Ways to Save

*wood chip mulch retains soil moisture.*

**Mulching:** Add mulch to all planting areas to ensure there is a 2–3 inch layer. This will retain moisture and keep soil temperatures cooler, improve soil quality, and plant health.

**Lawn Care:** Remember to aerate lawns once per year, which will reduce soil compaction and improve lawn health. Also, mow lawns to 2.5 to 3 inches to improve the quality of the lawn and reduce water demand.

**Check Irrigation System:** A few times each year, inspect your sprinklers and drip while they are on. Look for sprinklers that are broken, bent or misaligned, in addition to holes or breaks in the drip system. Inspecting and repairing will help keep your landscape healthy and save water. For help, sign up for a free Water Wise Outdoor Survey by visiting watersavings.org.

*Adapted and reprinted courtesy of Contra Costa Water District*

## Irrigation Schedule

| Sprinkler/ Drip Type | Lawn | | General Landscape (Shrubs and moderate water plants) | | Low Water Landscape | |
|---|---|---|---|---|---|---|
| | Pop-Up / Fixed-Spray Sprinkler | Impact /Rotor Sprinkler and Multi-stream/ MP Rotator Sprinkler | Drip Emitter/In-Line Drip | Micro-spray | Drip Emitter/ In-Line Drip | Micro-spray |
| **January** | 2 days, 1 cycle, 5 minutes | 2 days, 1 cycle, 15 minutes | 1 day 1 cycle, 13 minutes | 1 day 2 cycles, 4 minutes | 1 day, 1 cycle, 6 minutes | 1 day, 1 cycle, 2 minutes |
| **February** | 2 days, 1 cycle, 7 minutes | 2 days, 1 cycle, 15 minutes | 2 days, 1 cycle, 7 minutes | 1 day, 2 cycles, 4 minutes | 1 day, 1 cycle, 6 minutes | 1 day, 1 cycle, 5 minutes |
| **March** | 2 days, 1 cycle, 9 minutes | 2 days, 2 cycle, 18 minutes | 2 days, 1 cycle, 16 minutes | 2 days, 2 cycles, 5 minutes | 1 day, 1 cycle, 16 minutes | 2 days, 1 cycle, 6 minutes |
| **April** | 2 days, 2 cycles, 5 minutes | 2 days, 2 cycles, 22 minutes | 1 day, 3 cycles, 13 minutes | 2 days, 3 cycles, 4 minutes | 2 days, 1 cycle, 10 minutes | 2 days, 2 cycles, 3 minutes |
| **May** | 2 days, 2 cycles, 6 minutes | 2 days, 3 cycles, 20 minutes | 2 days, 2 cycles, 13 minutes | 2 days, 3 cycles, 6 minutes | 2 days, 1 cycle, 13 minutes | 2 days, 2 cycles, 4 minutes |
| **June** | 2 days, 2 cycles, 7 minutes | 2 days, 3 cycles, 22 minutes | 2 days, 2 cycles, 15 minutes | 2 days, 3 cycles, 3 minutes | 2 days, 1 cycle, 15 minutes | 2 days, 2 cycles, 5 minutes |
| **July** | 2 days, 3 cycles, 5 minutes | 2 days, 3 cycles, 24 minutes | 2 days, 3 cycles, 11 minutes | 2 days, 3 cycles, 5 minutes | 2 days, 1 cycle, 16 minutes | 2 days, 2 cycles, 6 minutes |
| **August** | 2 days, 2 cycles, 7 minutes | 2 days, 2 cycles, 33 minutes | 2 days, 2 cycles, 15 minutes | 2 days, 3 cycles, 3 minutes | 2 days, 1 cycle, 15 minutes | 2 days, 2 cycles, 5 minutes |
| **September** | 2 days, 2 cycles, 6 minutes | 2 days, 3 cycles, 17 minutes | 1 day, 3 cycles, 15 minutes | 1 day, 4 cycles, 5 minutes | 2 days, 1 cycle, 11 minutes | 2 days, 2 cycles, 4 minutes |
| **October** | 2 days, 2 cycles, 5 minutes | 2 days, 2 cycles, 18 minutes | 2 days, 1 cycle, 16 minutes | 1 day, 2 cycles, 5 minutes | 1 day, 1 cycle, 16 minutes | 2 days, 1 cycle, 6 minutes |
| **November** | 2 days, 1 cycle, 9 minutes | 2 days, 1 cycle, 15 minutes | 2 days, 1 cycle, 7 minutes | 1 day, 2 cycles, 4 minutes | 2 days, 1 cycle, 3 minutes | 1 day, 1 cycle, 5 minutes |
| **December** | 1 day, 1 cycle, 7 minutes | 1 day, 1 cycle, 15 minutes | 2 days, 1 cycle, 4 minutes | 1 day, 1 cycle, 4 minutes | 1 day, 1 cycle, 3 minutes | 1 day, 1 cycle, 2 minutes |

Notes:

- Drip Emitters/In-Line Drip schedule based on emitters that apply 0.8 inches of water per hour.
- If you do not have a Weather Based Smart Irrigation Controller, you will need to adjust the watering schedule manually in your controller's program according to the month. Visit ***https://delivr.com/2mryb*** for more information.
- Sprinkler irrigation times are not included for the General and Low Water Landscapes as these should be on drip irrigation or micro-spray for water use efficiency and the health of the landscape.
- Visit watersavings.org to learn about incentives and services to save water.

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# Landscape Recommendations

**(Numbers indicate priority)**

| | |
|---|---|
| 1 | **Repair System Connections**: Repair or upgrade connections listed on the System Information section on Survey Form 2 of this report. |
| 2 | **Repair Irrigation System**: Repair the problems listed on the Irrigation System on Survey Form 3 of this report. – REBATES AVAILABLE |
| 3 | **Upgrade Spray Nozzles**: Replace inefficient sprinkler heads with high-efficiency spray nozzles for more exact water distribution, eliminating misting and water runoff. – REBATE AVAILABLE |
| 4 | **Upgrade Spray Bodies**: Replace defective sprinkler spray bodies and install pressure-regulated models to cut back on overwatering. – REBATE AVAILABLE |
| 6 | **Reprogram Irrigation Controller**: Reprogram your irrigation controller based on the Recommended Irrigation Schedule provided. Your controller should be reprogrammed on a monthly or seasonal basis. Watering early in the morning or evening is always recommended. Avoid midday watering. Be sure to turn off your irrigation controller when it rains. |
| 5 | **Install a Smart Irrigation Controller**: Smart controllers automatically adjust the days and minutes of watering for your landscape based on weather or soil conditions. – REBATE AVAILABLE |
| na | **Install a Rain Sensor**: A rain sensor will shut off the irrigation system during rainfall. After a rainfall, the rain sensor automatically turns the irrigation system back on to normal operation. – REBATE AVAILABLE |
| 7 | **Convert to a Low Water Use Landscape**: Replace non-functional lawns and swimming pools with low water use landscapes. – REBATE AVAILABLE |
| 6 | **Improve Turf Grass**: If you would like to keep all or a portion of your lawn or turfgrass, keep grass taller to reduce evaporation, and replace pop-up sprinkler heads with sprinkler bodies with pressure regulation or check valves, and high-efficiency nozzles. – REBATES AVAILABLE |
| 8 | **Separate Irrigation Stations (Hydrozoning)**: Lawns must be watered independently from plantings of trees and shrubs since they require less water and fewer days of irrigation per week. |
| 9 | **Perform Regular Irrigation System Maintenance**: Additional maintenance information and detailed landscaping guides can be found at Valleywater.org/landscaping and Southbaygreengardens.org. |
| na | **Additional Rebates**: Review a full list of rebates available on the next page and at Watersavings.org. |
| na | **Other**: |

# Valley Water Rebates

**If you have questions about the rebate application process, please contact the Landscape Rebate Program at** Conservation@valleywater.org **or by calling (408) 630-2554**.

We can help you pay for some of the landscape upgrades recommended in your survey report. We offer *up to $3,000* (more in cost-sharing areas) for a wide variety of rebates that help you maintain your yard efficiently and increase the enjoyment of your property. Even small improvements can save a considerable amount of water—and rebates have recently been increased!

Apply before you buy! Submit landscape rebate applications at Valleywater.dropletportal.com/ and wait for approval prior to beginning any work on a project for which you hope to receive a rebate. Additional program details can be found at Watersavings.org.

After submitting an application, wait to receive a "**Notice To Proceed**" statement from Valley Water before starting any work on your property.

## LANDSCAPE REBATES

- **Landscape Conversion**: Take advantage of our lawn conversion rebate and create an ecosystem with natural mulch, water-efficient plants, and permeable landscape. Receive $2 per square foot of converted lawn or swimming pool (more in cost-sharing areas)! – *Water savings up to 36 gal/square foot of turf/year.*

- **In-line Drip Irrigation Conversion**: Like the plants you have? Convert overhead sprinklers to in-line drip tubing in your existing shrubs, and perennial or annual planting beds. Receive $0.25 per square foot area converted to in-line drip irrigation!

## IRRIGATION EQUIPMENT REBATES

- **High-Efficiency Nozzles**: Receive a rebate to replace inefficient or broken sprinkler nozzles with high-efficiency nozzles for more exact water distribution, eliminating misting and water runoff. – *Water savings up to 438 gal/year per nozzle.*

- **Sprinkler Bodies with Pressure Regulation and/or Check Valves**: Receive a rebate for installing pressure-regulated spray bodies to ensure water is evenly distributed throughout your landscape or with check valves to reduce water waste on sloped landscapes. – *Water savings up to 548 gal/year per spray body.*

- **Smart Irrigation Controller**: Replace standard controller with an approved Smart irrigation controller and receive a rebate for the cost of the equipment. – *Water savings up to 18,615 gal/year for smaller residential properties, and 265,355 gal/year for large landscapes.*

- **Rain Sensor**: A rain senor rebate is available if your existing controller has a slot to accommodate this. You many also consider installing a flow sensor and this must be tied to a compatible irrigation controller to qualify. – *Water savings up to 13,300 gallons per year.*

## WATER REUSE REBATES

- **Rainwater Capture**: Collect free water from the sky by installing barrels or cisterns—or store rainwater in the soil with a beautiful and functional rain garden. Receive up to $35 per barrel, $0.50 per gallon for cisterns, and $1 per square foot of roof area runoff diverted to a rain garden (more in cost-sharing areas)!

- **Laundry to Landscape Graywater**: Water your yard while you're doing laundry! With a simple plumbing retrofit you can save thousands of gallons each year. Apply separately from the other rebates at Valley-water.org/graywater to receive up to $200 for your system (more in cost-sharing areas). *This rebate amount does not contribute to the overall $3,000 rebate cap. – *Water savings between 4,500 and 14,500 gal/year (depending on the size of landscaping and people in the home).*