



# City of Monrovia Water Conservation Plan Phase II Update

CITY COUNCIL MEETING

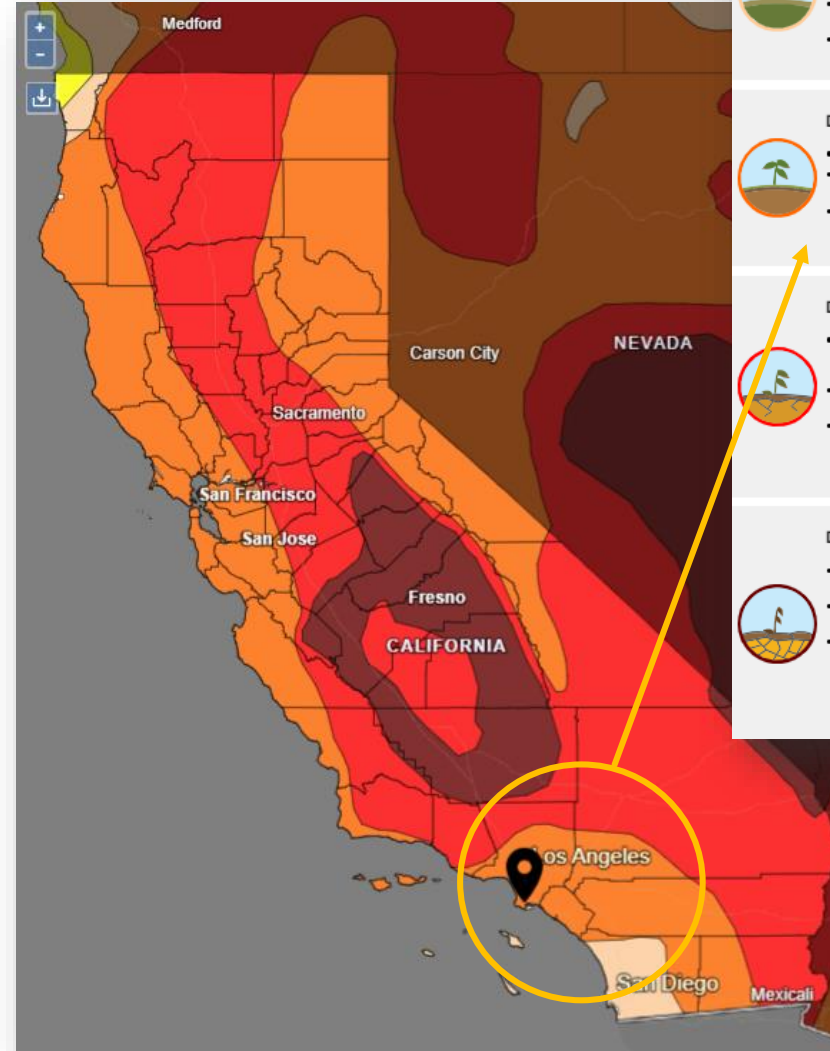
September 6, 2022






# Background

- ▶ The State of California continues to experience unprecedented drought conditions as a result of historically high temperatures and the lack of adequate rainfall.
- ▶ In July 2021, Governor Gavin Newsom called upon the entire State of California to reduce water consumption by 15%. By October 2021, a proclamation was issued extending drought emergency conditions statewide, which extended to Los Angeles County.

# Current Drought Conditions

- ▶ According to the National Integrated Drought Information System, California continues to experience severe to exceptional drought conditions.
- ▶ 96.75% of Los Angeles is in a severe drought.
- ▶ City of Monrovia is listed under severe drought conditions.



	<b>D0 - Abnormally Dry</b> <ul style="list-style-type: none"> <li>• Soil is dry; irrigation delivery begins early</li> <li>• Dryland crop germination is stunted</li> <li>• Active fire season begins</li> </ul>	<b>100.00%</b> of Los Angeles County (D0-D4)
	<b>D1 - Moderate Drought</b> <ul style="list-style-type: none"> <li>• Dryland pasture growth is stunted; producers give supplemental feed to cattle</li> <li>• Landscaping and gardens need irrigation earlier; wildlife patterns begin to change</li> <li>• Stock ponds and creeks are lower than usual</li> </ul>	<b>100.00%</b> of Los Angeles County (D1-D4)
	<b>D2 - Severe Drought</b> <ul style="list-style-type: none"> <li>• Grazing land is inadequate</li> <li>• Fire season is longer, with high burn intensity, dry fuels, and large fire spatial extent</li> <li>• Trees are stressed; plants increase reproductive mechanisms; wildlife diseases increase</li> </ul>	<b>96.75%</b> of Los Angeles County (D2-D4)
	<b>D3 - Extreme Drought</b> <ul style="list-style-type: none"> <li>• Livestock need expensive supplemental feed; cattle and horses are sold; little pasture remains; fruit trees bud early; producers begin irrigating in the winter</li> <li>• Fire season lasts year-round; fires occur in typically wet parts of state; burn bans are implemented</li> <li>• Water is inadequate for agriculture, wildlife, and urban needs; reservoirs are extremely low; hydropower is restricted</li> </ul>	<b>33.86%</b> of Los Angeles County (D3-D4)
	<b>D4 - Exceptional Drought</b> <ul style="list-style-type: none"> <li>• Fields are left fallow; orchards are removed; vegetable yields are low; honey harvest is small</li> <li>• Fire season is very costly; number of fires and area burned are extensive</li> <li>• Fish rescue and relocation begins; pine beetle infestation occurs; forest mortality is high; wetlands dry up; survival of native plants and animals is low; fewer wildflowers bloom; wildlife death is widespread; algae blooms appear</li> </ul>	<b>0.04%</b> of Los Angeles County (D4)

# Background continued

- ▶ On December 7, 2021, City Council implemented Phase II of the Water Conservation Plan.
- ▶ Phase II requires mandatory water use restrictions and water conservation of 10% from the base period allocation.
- ▶ Residents and businesses are not permitted to exceed 90% of their base period allocation, which is defined as the actual water usage during the same month in 2020.



# Phase II: Water Usage Comparison

- ▶ A comparison of the City of Monrovia’s water production needs from the start of Phase II in March 2022 compared to the respective months in 2020 shows an overall **6.38% decrease** in water usage.
- ▶ Percent water savings starting from May 2022 show an overall decrease of almost 15%.

Water Production in Gallons							
	March	April	May	June	July	August	Total
2020	139,780,000	141,838,000	210,500,000	198,698,000	230,022,000	265,849,000	1,186,687,000
2022	171,182,000	168,550,000	186,681,000	182,158,000	196,449,742	205,920,409	1,110,941,151
Monthly + / -	31,402,000	26,712,000	-23,819,000	-16,540,000	-33,572,258	-59,928,591	-75,745,849
Month-to-Month Comparison	22.47%	18.83%	-11.32%	-8.32%	-14.60%	-22.54%	-6.38%
Percent Saved from May to August							-14.79%

**75 million gallons of water saved since March 2020.**

# Phase II: Water Usage Comparison

- ▶ A comparison of the City of Monrovia's water production needs in 2020-2021 versus 2021-2022 shows an overall **8.9% decrease** in water usage.

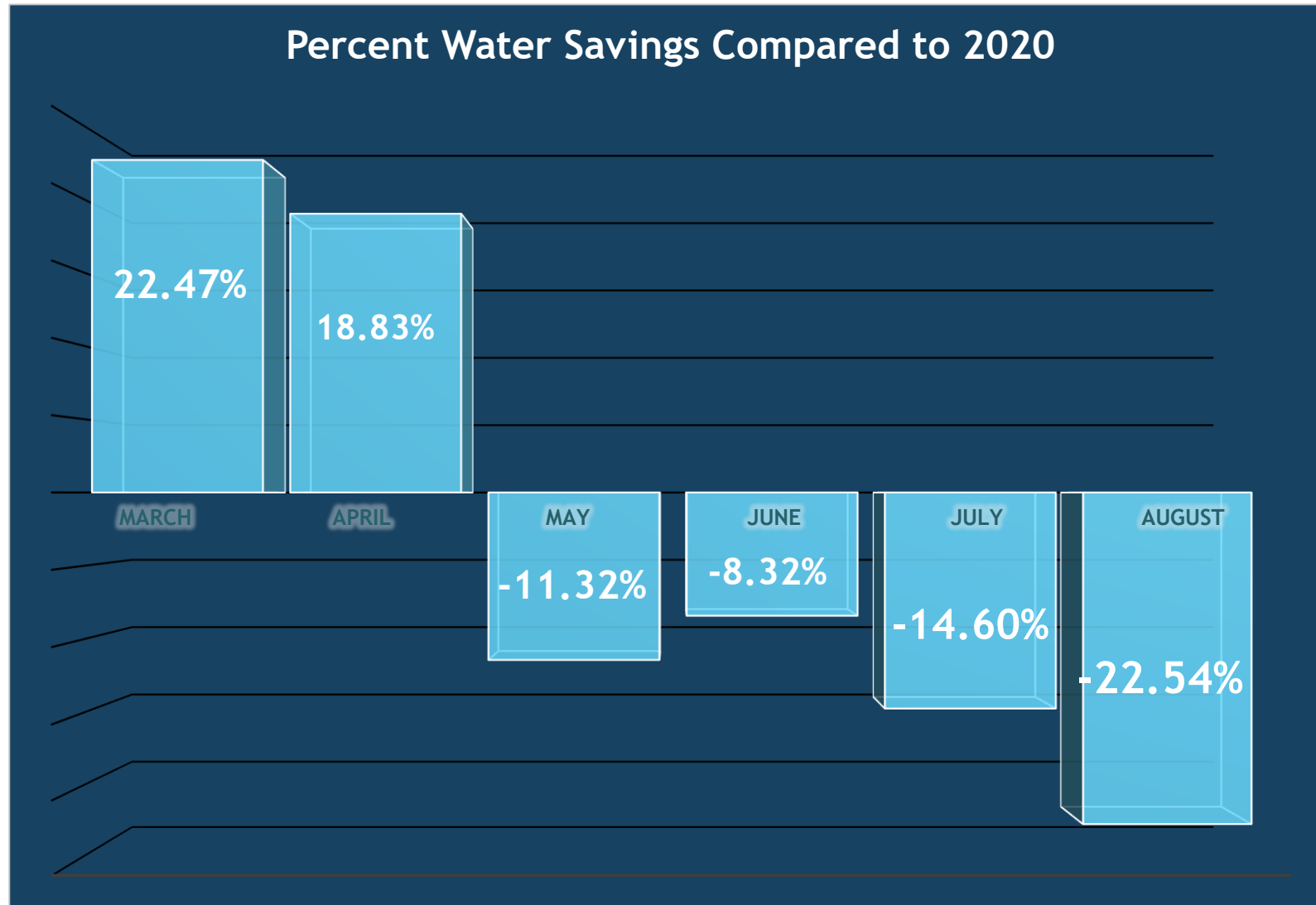
## Water Production in Gallons

	September	October	November	December	January	February	March	April	May	June	July	August	Total
2021/2022	222,783,000	247,865,000	170,570,000	182,623,000	167,983,000	140,818,000	154,961,000	175,794,000	210,297,000	213,550,000	243,871,000	233,771,000	2,364,886,000
2022/2023	213,699,000	202,793,000	180,905,000	141,154,000	152,016,000	151,386,000	171,182,000	168,550,000	186,681,000	182,158,000	196,449,742	205,920,409	2,152,894,151
Monthly + / -	-9,084,000	-45,072,000	10,335,000	-41,469,000	-15,967,000	10,568,000	16,221,000	-7,244,000	-23,616,000	-31,392,000	-47,421,258	-27,850,591	-211,991,849
Month-to-Month Comparison	-4.08%	-18.18%	6.06%	-22.71%	-9.51%	7.50%	10.47%	-4.12%	-11.23%	-14.70%	-19.45%	-11.91%	-8.96%
Cumulative Target	-3.80%	-7.49%	-8.37%	-10.35%	-11.99%	-5.52%	-4.74%	0.56%	-0.60%	-6.10%	-6.07%	-8.89%	-8.96%

**211 million gallons**  
of water saved  
September 2021 - August 2022

Phase II  
Implementation

# Water Savings Per Month



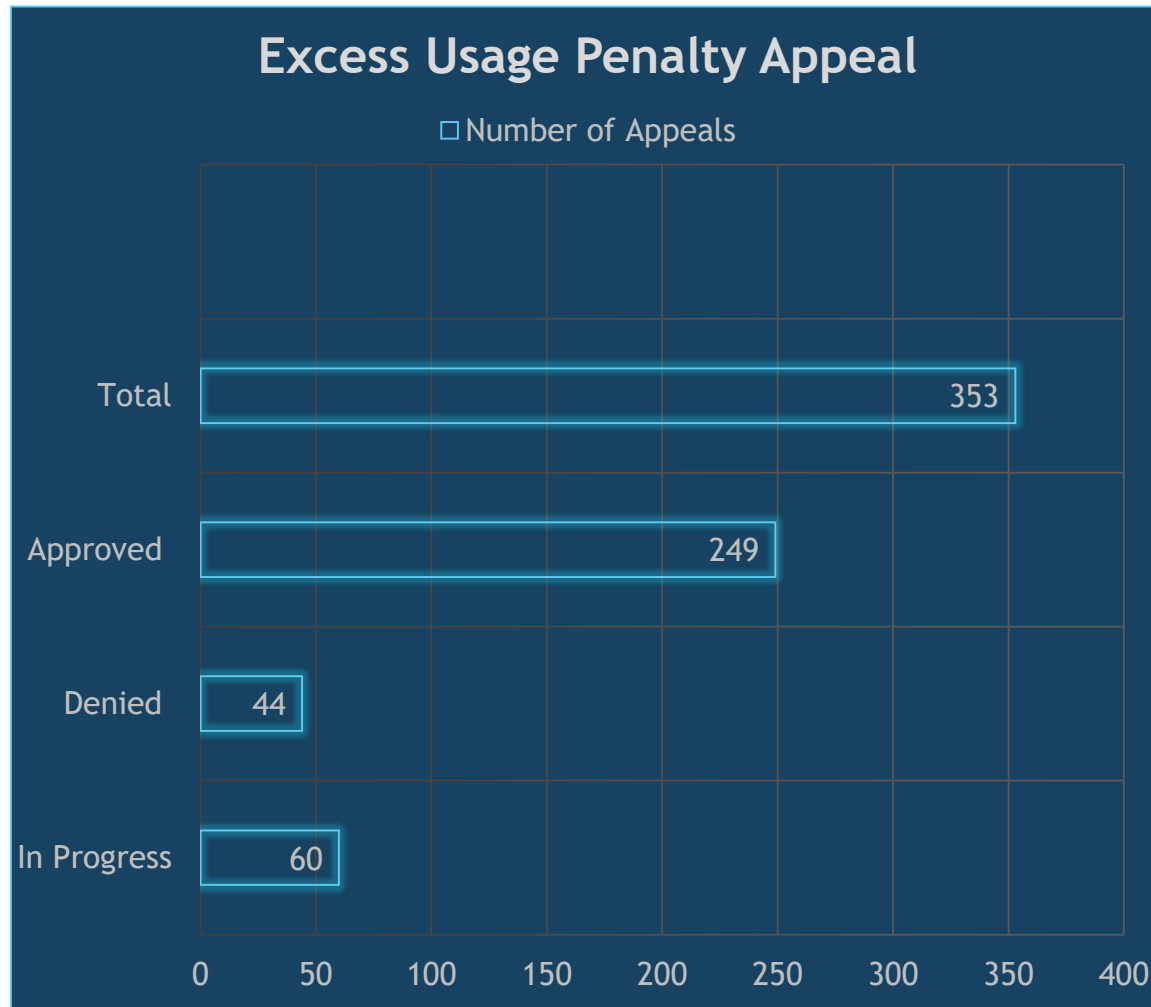
# Water Use By Agency

Metropolitan Water District of Southern California



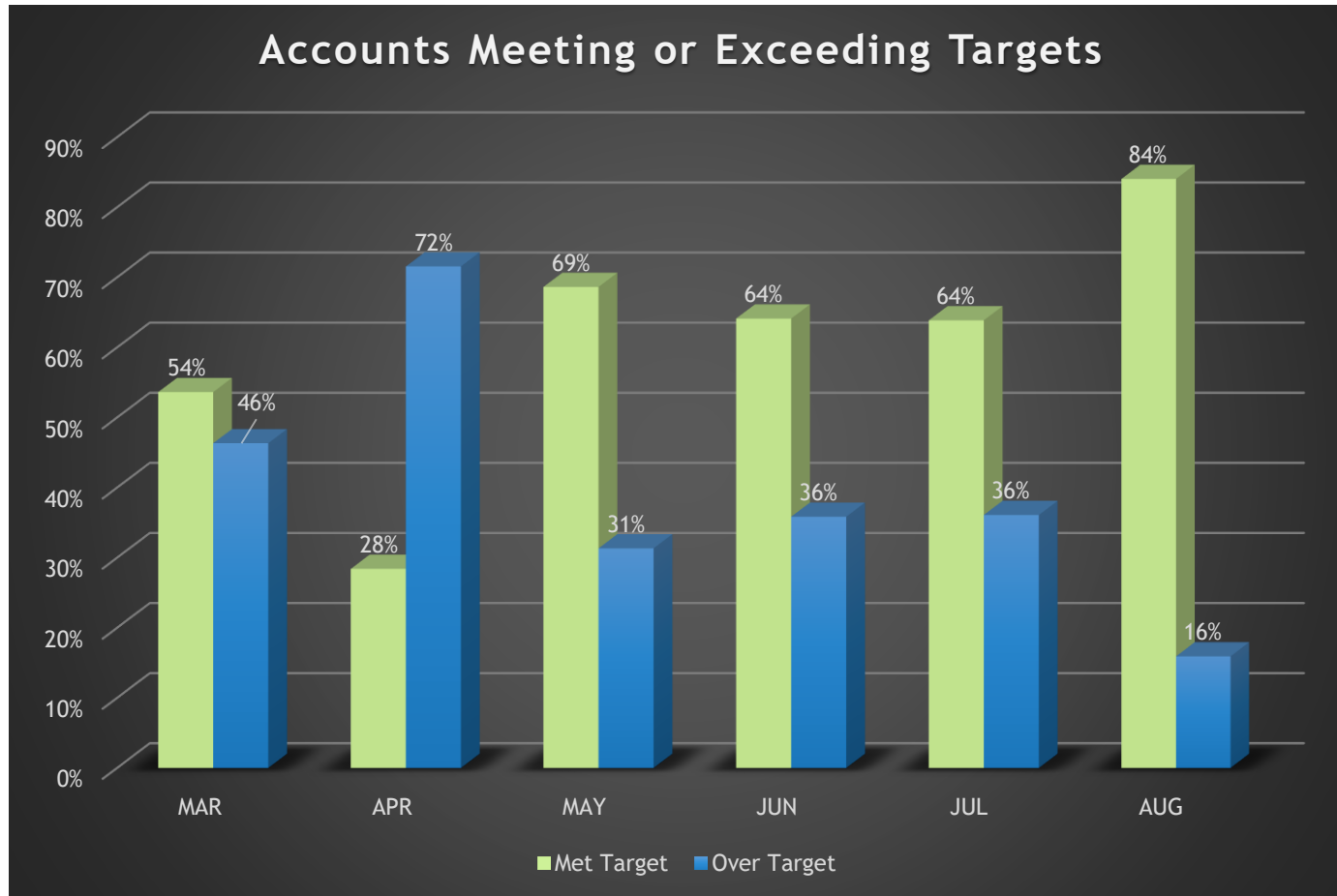


# Water Penalty Appeals



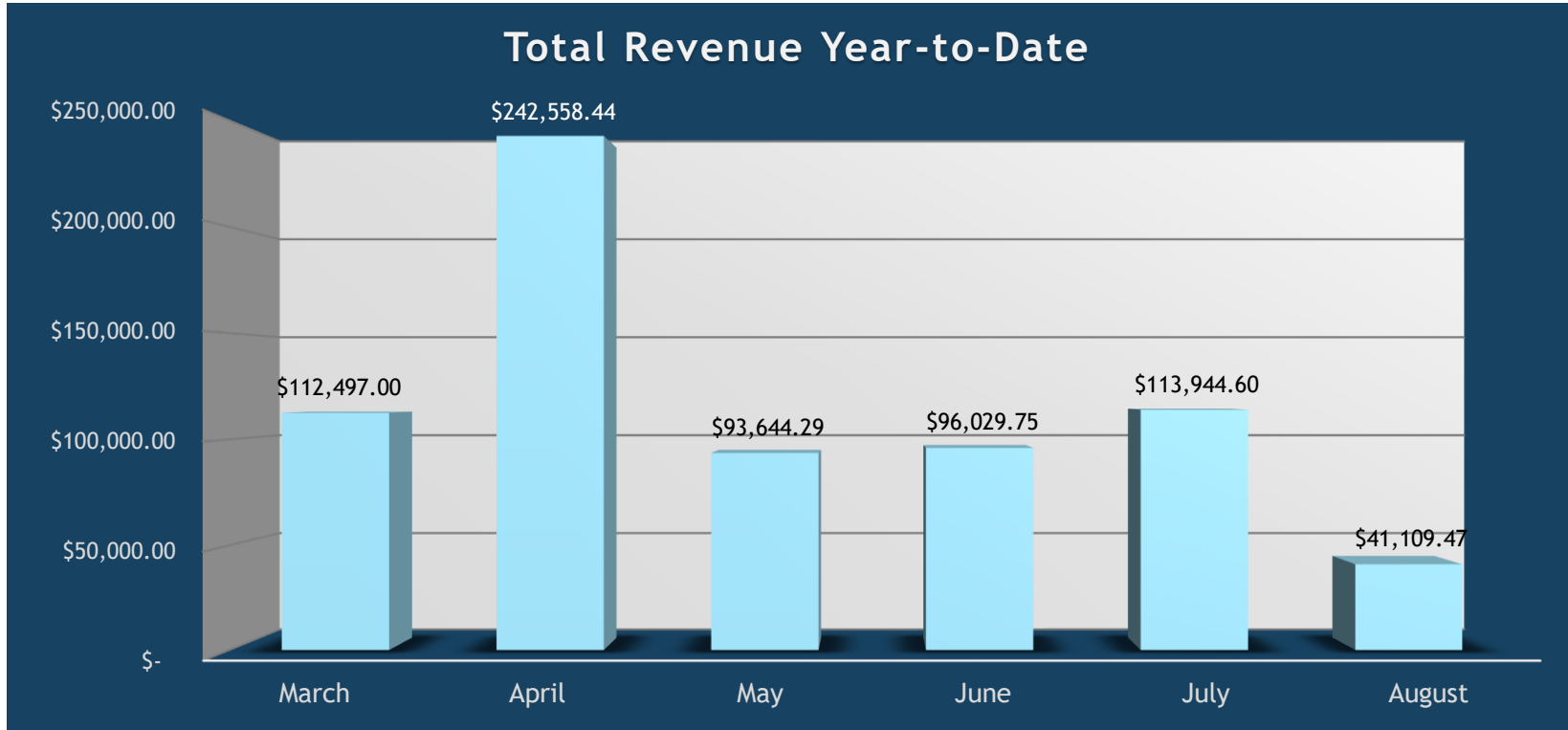
- ▶ Each appeal is reviewed on a case-by-case basis.
- ▶ Taking the following into consideration:
  - ▶ Conservation measures taken
  - ▶ Reason for appeal
  - ▶ Comparison to same account type in the same route
  - ▶ Account history

# Phase II: Water Conservation



- ▶ Number of accounts in excess has decreased since March 2022.
- ▶ Only 16% of accounts were in excess in August 2022.
- ▶ Excess usage rose in April due to lower targets.

# Water Penalty Appeal Revenue



Revenue year-to-date:  
**\$699,783**

# Water Conservation Outreach: Conservation Video

- ▶ The City of Monrovia created a new water conservation video outlining the current drought conditions and how the community can help save water.
- ▶ Shared on multiple platforms:
  - ▶ Social Media
  - ▶ YouTube
  - ▶ Previewed at Movie in the Park
  - ▶ City Website
  - ▶ City Manager Update



# Water Conservation Outreach: Banners, Lawn Signs, Message Board

- ▶ Placement of banners along Myrtle Avenue near Foothill Boulevard and Huntington Drive
- ▶ Placement of lawn signs along medians, parkways, parks and City facilities throughout town
- ▶ Message board placement all throughout town along major streets.



# WaterSmart Rebates

- ▶ The City of Monrovia has partnered with the Upper San Gabriel Water District to provide rebates for eligible devices, appliances and turf replacement.
- ▶ Available Rebates:
  - ▶ Turf Replacement
  - ▶ Toilets
  - ▶ Washing Machines
  - ▶ Rain Barrel
  - ▶ Weather-based Irrigation Controllers
  - ▶ And More!



**Save Water. Save Money.  
Improve Performance.**

**Receive an \$80 rebate  
when you make the  
switch to a High  
Efficiency Toilet!**

The largest amount of indoor  
water use goes toward  
flushing the toilet! Make the  
switch today!



**Smart Watering.  
Customized.**

**Rebates for Weather  
Based Irrigation  
Controllers are available!**

Properties less than one acre are  
eligible to receive up to \$ 100 per unit  
(limit 2 units)

Properties bigger than one acre are  
eligible to receive \$35 per station  
(limit 100 stations)



# Water Conservation Outreach Efforts

- ▶ Outreach and educational tools included the following:
  - ▶ City Manager's weekly updates
  - ▶ Monrovia Today
  - ▶ Utility bill inserts
  - ▶ Water conservation kits
  - ▶ Water conservation planner
  - ▶ City website - Monrovia Conserves
  - ▶ Social Media
  - ▶ WaterSmart Rebates
  - ▶ Community events
  - ▶ Direct outreach

**MONROVIA CONSERVES** SUMMER WATER HOW MANY GALLONS

**INDOOR**

- Wash only full loads of laundry and dishes
- Fix household leaks promptly - save up to 200 gallons a year
- Spend only five minutes in the shower
- Turn off the water while you brush your teeth

**OUTDOOR**

- Water your landscape only one to two days a week - save up to 500 gallons
- Check sprinkler system for leaks, overspray, and broken sprinkler head
- Use a broom instead of a hose to clean driveways and sidewalks - save up to 40 gallons per day
- Install a smart sprinkler controller that adjusts watering based on weather
- Water plants in the early morning or evening to reduce evaporation - save up to 5 gallons each time

**DO YOU OWN MORE THAN AN ACRE OF LAND?**  
Bewaterwise.com is offering a landscape irrigation survey at no charge. Eligible landscapes will receive a survey conducted by a certified landscape irrigation auditor to review irrigation systems that include system pressure controllers, and more! Receive recommendations for improving the irrigation system and information about available financial incentives!

**RESIDENTIAL**

**TURF REPLACEMENT**  
Eligible residents have the opportunity to replace their lawn with California friendly native landscape that will help conserve water through designs that incorporate water-saving plants, technology, irrigation systems, and hardware. Rebates start at \$3 per square foot!

**APPLIANCES**

**WASHER** - Use up to less than 56% of water than the standard by switching to a High Efficiency washer. Rebates start at \$135 for High-Efficiency clothes washers.

**PREMIUM HIGH EFFICIENCY TOILETS** - Use up to 20% less water than the standard toilet by making the switch. Rebates start at \$80 per toilet.

**ROTATING SPRINKLER NOZZLES** - Avoid flooding your sidewalk and eliminate wasteful run off! Rebates start at \$4/nozzle.

**RAIN BARRELS AND CISTERNS** - Collect rainwater and use it for your lawn and garden! Rebates start at \$35 per barrel or \$250 per cistern.

**WEATHER BASED IRRIGATION CONTROLLER** - Provide the appropriate watering schedule by installing a weather based "smart" controller! Rebates start at \$60.

**SOIL MOISTURE SENSOR SYSTEM** - Measure your soils moisture with a sensor system to avoid overwatering your landscape! Rebates start at \$90 per Controller and \$25 per station.

**PLUMBING**  
Plumbing rebates are available for high-efficiency toilets, dual flush toilets, low-flow showerheads, and low-flow faucets. Rebates start at \$40 for each fixture.

**LANDSCAPE**  
Weather controlled scheduled nozzles, sensor systems, and other irrigation equipment. Rebates start at \$100 per station.

**OTHER ELIGIBLE**  
Business, Medical and other eligible equipment. Rebates start at \$100 per station.

FOR MORE INFORMATION ON REBATES AND ELIGIBILITY REQUIREMENTS PLEASE VISIT:  
**HTTPS://WWW.BEWATERWISE.COM**

CITYOFMONROVIA.ORG • SUMMER 2022

**WATER CONSERVATION**

While drought conditions exist across the state, as Californians we have been called to conserve water. California has experienced historically high reliance on groundwater, causing the depletion of aquifers. As Monroviaans, we call to action of our community to preserve our water supply. Here are some tips to help you conserve water.

**INDOOR TIPS**

- Stop Running Water.** Turn off the water when you are brushing your teeth and shaving. Doing so will save up to 2.5 gallons per minute.
- Limit your Showers to 5 Minutes.** Spend only 5 minutes in the shower and save up to 25 gallons each time.
- Fix The Drips.** Repair leaks immediately and up to 20 gallons a day.

**OUTDOOR TIPS**

- Don't Over-Water.** You should only be watering outdoors every other day.
- Choose the Right Time.** You should only be watering outdoors between the hours of 6pm and 6am. This reduces evaporation and can save 25 gallons each day you water.
- Use a Broom, Not a Hose.** Put down the hose and up a broom when you clean your driveway sidewalks, and save gallons each time.

**POOLS AND IN-GROUND SPAS**

- Install a pool cover to reduce water evaporation by as much as 90%.
- Shut off waterfalls, fountains, and other water features to reduce water loss and evaporation.
- If your pool is heated, reduce the water temperature to reduce evaporation.
- Check for and repair any leaks.
- Minimize splashing or lower the pool's water level to reduce "splashing."
- Plug the overflow line when the pool is in use.
- Replace sand and DE filters with cartridge filters that do not require backwashing.
- Keep your pool clean to reduce frequency of backwashing.

**ABOVE-GROUND HOT TUBS OR SPAS**

- Keep it covered.
- Maintain the chemicals to extend water life.
- Check equipment for leaks.
- Drain only when absolutely necessary.
- Check with your pool service professional for new technology that helps keep the water clean and reduce the need to drain the spa.
- If you drain your spa, reuse the water to irrigate plants and landscaping.

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**WE'RE STILL IN A DROUGHT**  
Slow the flow, every drop counts!

**IN THE BATHROOM**  
**Squeaky Clean in Less!** Limit your showers. **Shower Don't Soak!** Skip the bath and take a quick shower. **Don't Flush it, Throw it!** Don't use your toilet for anything but the toilet. **Slow the Flow!** Turn water on as needed when brushing your teeth.

**IN THE KITCHEN**  
**Scrap the Tap!** Wash your fruits and vegetables in a bowl of water. **Don't Scrape it, Soak it!** Soak pots and pans in a sink of water. **Scrape them clean.**

**AROUND THE HOUSE**  
**Peek a Leak?** Report leaks to your property manager. **Clean the Mess with Less!** Use your dishwasher. **Have full loads.**

**For more information on water conservation**  
available at the [www.bewaterwise.com](http://www.bewaterwise.com) website or for more information, please contact the Public Works Department at (626) 932-5575.

**The DROUGHT is NOT over!**

Despite recent rainfall, California has experienced historically high temperatures and lack of adequate rainfall over the years, resulting in drought conditions and increased reliance on groundwater. This combination of events has lowered our water availability to near-record levels.

**CALIFORNIA DROUGHT EMERGENCY**  
In July 2021, Governor Gavin Newsom called upon the entire State of California to reduce water consumption by 15% and declared drought conditions in a vast majority of counties, including Los Angeles County.

**MONROVIA'S WATER CONSERVATION PLAN**  
As Monroviaans, we must do our part to reduce water consumption. In December, the Monrovia City Council implemented Phase II of the Water Conservation Plan, requiring a **mandatory 10% reduction in water consumption** to reach the statewide reduction mandate.

As a result of establishing Phase II of the Water Conservation Plan, violations of mandatory water conservation measures may result in administrative citations. Additionally, customers who fail to reduce their water usage by the required 10% will be billed a penalty of two times the cost of a water billing unit (748 gallons of water) for each unit in excess of what is permitted. For a typical residential unit, the standard penalty is \$4.88 per unit in excess.

Moving forward, residents and commercial customers should not exceed 90% of their base period allocation. The base period allocation is defined by actual water usage during the same month in 2020.

For additional information, visit [CITYOFMONROVIA.ORG/MONROVIACONSERVES](http://CITYOFMONROVIA.ORG/MONROVIACONSERVES)

# NEW Outreach Efforts and Programs

- ▶ The City of Monrovia is currently in the process of releasing new outreach programs to continue to encourage conservation.
- ▶ New programs include:
  - ▶ FREE Tree Watering Bags for Residents and Businesses (August 2022)
  - ▶ Outdoor Audit Services for Residents (Winter 2022)
  - ▶ Public Agency Turf Removal (Application Phase)
  - ▶ Water Saving Gardening Kits (2023)

**STATEWIDE BAN ON NON-FUNCTIONAL TURF IRRIGATION FOR COMMERCIAL AND INSTITUTIONAL PROPERTIES**

Non-functional turf has been defined by the state as "turf that is ornamental and not regularly used for horticultural purposes or for civic or commercial purposes."

In response to California's record-setting drought, the state has adopted emergency regulations to prevent wasteful water uses and promote conservation.

Effective June 10, 2022, owners at commercial and institutional (CII) properties are prohibited from watering non-functional turf with potable water. This ban is in place for one year unless modified.

**EXEMPTIONS**  
Areas of turf are exempt if:

- The turf is used for human recreation.
- The turf is irrigated with recycled water.
- The turf is irrigated with non-potable water for use as a drinking water supply.
- The turf is on the same valve as other plantings.
- The turf is at a residential location or institutional location. The exception to this is common areas in Homeowners Association sites. Unless one of the above exemptions applies, HOA common areas are included in this turf irrigation ban.

**QUESTIONS**  
Further details about the emergency drought regulation are available on the State Water Board's website at [bit.ly/conservationreg](http://bit.ly/conservationreg).

**ENFORCEMENT**  
Failure to comply may result in a fine of up to \$500 a day by the State Water Resources Control Board in addition to local enforcement of the violations. To anonymously report water waste, go to [SaveWater.CA.Gov](http://SaveWater.CA.Gov).

JUNE 2022

**FREE TREE WATERING BAGS**  
For Residents and Businesses

Thinking of ways to save water while keeping your trees alive? Look no further!

**Businesses:**  
Up to 4 free tree watering bags

**Residents:**  
Up to 2 free tree watering bags

Public Works Department  
626-932-5575