

Avondale

PUBLIC WORKS
2016/2017 CALENDAR
& ANNUAL WATER
QUALITY REPORT



AVONDALE'S
QVONGERS
MIGHTIEST HEROES

AVONDALE WATER CUSTOMERS:

Avondale is committed to providing our residents with safe, reliable drinking water and great service at an affordable price. This document is provided to you, as the Annual Water Quality Report (as mandated by state and federal requirements). The report provides important information about where your water comes from, the results of continuous testing and how results compare with federal standards.

As your water provider, we are dedicated to maintaining the quality and safety of your drinking water. Water is such a valuable resource to the quality of life for our community and is vital to the growth of our economy.

The City has been preparing for the shortages in the Colorado River, and we are working every day to enrich our water portfolio and water savings account to mitigate the long-term impact. Avondale's water portfolio, consists of surface waters from the Central Arizona Project (CAP), Salt River Project (SRP), reclaimed water, and recovered groundwater pumped from wells. Over the last decade Avondale residents have been working very hard to conserve water, and we thank you for your continued efforts. It's because of your actions that we can reduce the impacts of this drought.

Cities and towns in the valley have been working together for decades- monitoring, planning, and preparing for such conditions to protect water supplies. Avondale treats and distributes the groundwater supplies and recharges the surface and reclaimed water. Every year since 1999, Avondale has stored more water in the aquifers than it has pumped out. This stored water helps protect Avondale from drought related shortages.

This year's report is also provided to you as useful mid-year calendar, in it features the return of the Avengers, Avondale's Mightiest Super Heroes. The super heroes of our Public Works Department provide you assurance that we are dedicated to providing you quality services.

The calendar highlights interesting facts about the city, pertinent information about Public Works Department services, sustainability initiatives, water resources, water quality, solid waste recycling, and conservation tips. Please take time to review it, this is the 10th year the city has provide you this report in a friendly calendar format.

Thank you for choosing Avondale as your home.

Sincerely,

Cindy Blackmore, AKA Captain Marvelous
City of Avondale Director of Public Works

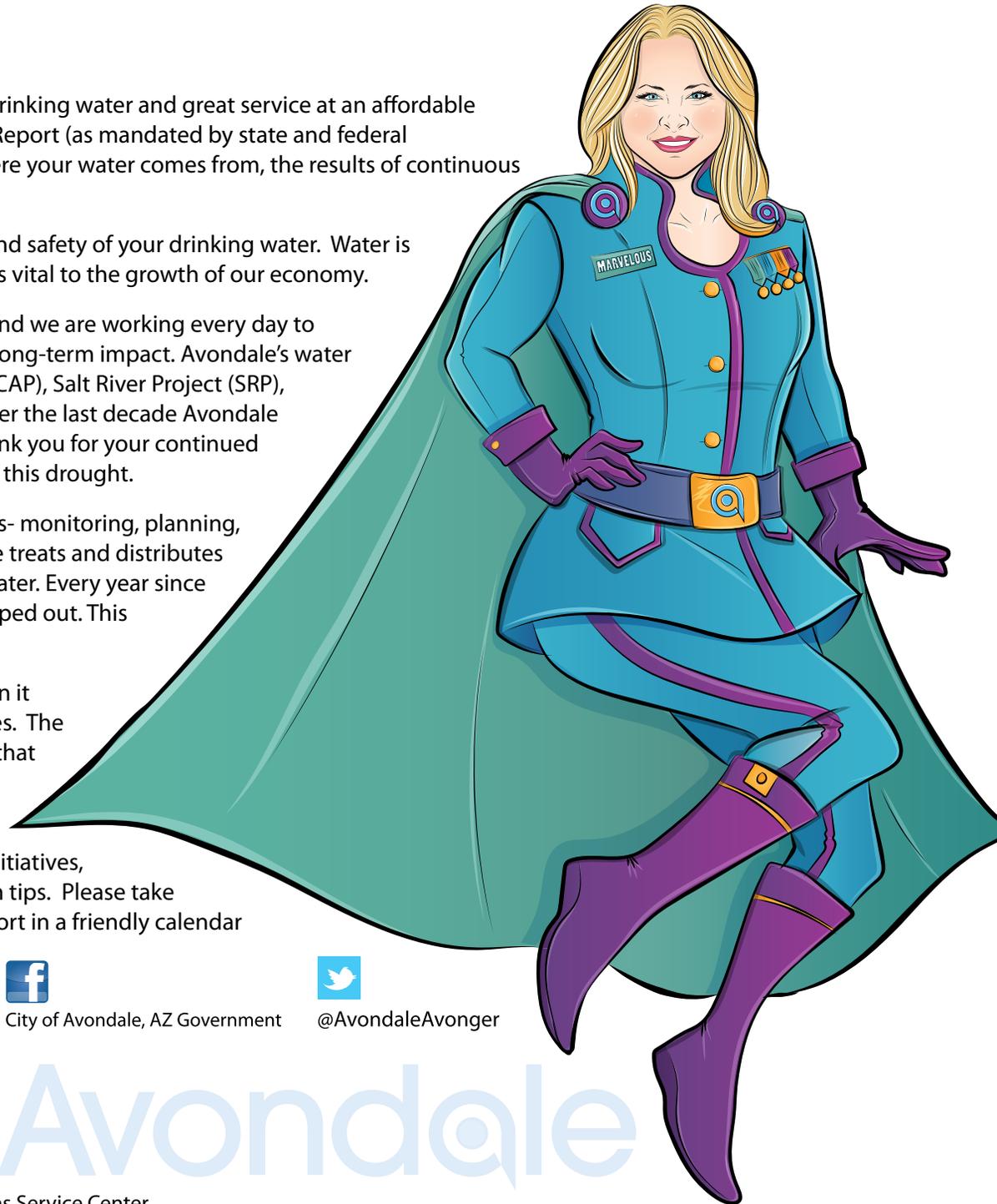


City of Avondale, AZ Government



@AvondaleAvonger

Avondale



Contact us: City of Avondale Public Works Department - Municipal Operations Service Center

399 E. Lower Buckeye Road | Avondale, AZ 85323 | (623) 333-4400 | Water Bill Customer Service Questions (623) 333-2005 | www.avondale.org/publicworks

2015 Annual Drinking Water Quality Report

Esta información es sobre el agua potable y es importante. Si no la puede leer, encuentre a alguien quien le puede traducir esta información..

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water.

Avondale is committed to providing you with safe, reliable drinking water, and great service at an affordable price, each and every day. Part of this commitment is summarized in an annual report about our drinking water. The 2015 Water Quality Report provides important information about your drinking water including where the water comes from, the results of continuous testing, and how these results compare with federal standards. We work closely with the U.S. Environmental Protection (EPA), the Arizona Department of Environmental Quality (ADEQ) and Maricopa County Environmental Services to ensure we are meeting or surpassing all drinking water standards, and assuring you receive safe, high quality and reliable drinking water.

Our Water Source(s)

Our water source is the West Salt River Valley Sub-Basin aquifer. The City of Avondale uses a series of wells throughout the city service area to pump water from the aquifer and deliver it to our customers.

General Information About Drinking Water

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection

Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA Safe Drinking Water Hotline at 1-800-426-4791.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- ◆ **Microbial contaminants**, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- ◆ **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- ◆ **Pesticides and herbicides** that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- ◆ **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.
- ◆ **Radioactive contaminants**, that can be naturally occurring or be the result of oil and gas production and mining activities.

City of Avondale Public Water System
Number: AZ 04 07088

In order to ensure that tap water is safe to drink, the Arizona Department of Environmental Quality prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

UCMR3 Unregulated Contaminants

Unregulated substances are those for which EPA has not established drinking water standards. Avondale monitors for these substances to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. The EPA issues a new list of up to 30 unregulated substances for monitoring every five years. Avondale has tested for these contaminants in 2001, 2003, 2008, and 2013.

In May 2013, the City of Avondale began monitoring for the UCMR 3 contaminants and obtained confirmation samples in 2014. Any unregulated contaminants detected are reported in the following table. There is naturally occurring chromium deposit in several entry points. Water from these sites currently meets the EPA standard for total chromium. If the EPA determines that regulation is warranted for any of the monitored substances, Avondale will take whatever steps are necessary to comply with any new requirements.

See Third Unregulated Contaminant Monitoring Rule (UCMR3) Table follows June Calendar.

Water Quality Data

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The State of Arizona requires us to monitor for certain contaminants at various locations throughout the city. Testing is done at six entry points to the distribution system that represent the treated source water. Some of our data, though representative, may be more than one year old. We also perform tests throughout the distribution system at over 80 different locations to ensure the water entering your home or business remains safe and reliable.

These tables show the results of our monitoring for the period of January 1 to December 31, 2015 unless otherwise noted.

Inorganic Contaminants	Unit	MCL	MCLG	Low Range	High Range	Avg. Detected	Violation	Likely Source of Contamination
Arsenic	ppb	10	0	3.5	14	4.0	No	Erosion of natural deposits; runoff from orchards, glass and electronic production wastes
Barium	ppm	2	2	0.03	0.19	0.11	No	Discharge of drilling wastes; from metal refineries; erosion of natural deposits
Chromium 2014	ppb	100	100	5	10	2	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride 2014	ppm	4	4	0.10	1.13	0.30	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	ppm	10	10	1.67	9.12	3.52	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium 2014	ppb	50	50	3.2	18.9	6	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Radionuclides 2014

Gross Alpha	pCi/L	15	0	N/D	4	1.4	No	Erosion of natural deposits
Radium 226 & 228	pCi/L	5	0	N/D	1.3	0.26	No	Erosion of natural deposits
Uranium	ppb	30	0	N/D	5.7	3.0	No	Erosion of natural deposits

Microbiological Contaminants

Total Coliform Bacteria for systems that collect >40 samples per month. 976 annual routine samples.	Unit	MCL	MCLG	Low Range	High Range	Avg. Detected	Violation	Likely Source of Contamination
	%	5	0	Absent	Present	1%	No	Naturally present in the environment

Disinfectants and Disinfection By-Products

	Unit	MCL	MCLG	Low Range	High Range	Avg. Detected	Violation	Likely Source of Contamination
Total Trihalomethanes (TTHMs)	ppb	80	N/A	9	23	20	No	By-product of drinking water disinfection
Total Halocetic Acids (HAAs)	ppb	60	N/A	2	4	4	No	By-product of drinking water chlorination

Compliance is based on a system wide locational running average, not the highest detected amount.

Chlorine Residual

	Units	MRDL	MRDLG	Low Range	High Range	Avg. Detected	Violation	Likely Source of Contamination
	ppm	4	4	0.12	2.19	0.97	No	Water additive used to control microbes

Lead and Copper Sample 2013

	Unit	AL	MCLG	90th Percentile Value	Sites Exceeding Action Level	Likely Source of Contamination
Lead	ppb	15	0	1	0	Corrosion of household plumbing
Copper	ppb	1300	N/A	200	0	Corrosion of household plumbing

(30 Samples)

Lead and Copper Rule Standard: 90% of homes tested must have lead and copper levels below the action level.

National Secondary Drinking Water Regulations are non-enforceable guidelines that may cause cosmetic effects in drinking water. EPA recommends these standards but does not require water systems to comply.

Contaminant	Unit	Secondary Standard	Avg. Detected
Grains per Gallon	Gr/gal	N/A	22
Hardness, Total	ppm	N/A	371
Iron	ppm	0.3	0.008
pH	Std Unit	6.5 - 8.5	7.7
Sodium	ppm		109
Sulfate	ppm	250	82
Temperature	°C	N/A	20.8
	°F	N/A	69.4
Total Dissolved Solids	ppm	500	665



Source Water Assessment

The Arizona Department of Environmental Quality (ADEQ) has performed an evaluation of the City of Avondale's sources of water to public water systems in Arizona. This evaluation determines the degree to which the source of water is protected. Based on the information currently available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water sources, ADEQ has given a low risk designation for the degree to which this public water system drinking water source is protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection.

Source Water Assessments are on file with the Arizona Department of Environmental Quality and available for public review at: ADEQ, 1110 W. Washington Street, Phoenix, AZ 85007 or by calling (602) 771-4641.

Terms & Abbreviations

To help you understand the terms and abbreviations used in this report, we have provided the following definitions:

- ◆ **Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- ◆ **Action Level Goal (ALG)** - The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to health. The ALG allows for a margin of safety.
- ◆ **Maximum Contaminant Level (MCL)** - The “Maximum Allowed” is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- ◆ **Maximum Contaminant Level Goal (MCLG)** - The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- ◆ **Maximum Residual Disinfectant Level (MRDL)** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- ◆ **Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of a drinking water disinfectant, below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- ◆ **N/A** = not applicable; **N/D** = not detected
- ◆ **Parts per million (ppm) or Milligrams per liter (mg/L)** - one part per million corresponds to one minute in two years or a single penny in \$10,000.
- ◆ **Parts per billion (ppb) or Micrograms per liter (µg/L)** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- ◆ **Picocuries per liter (pCi/L)** - picocuries per liter is a measure of the radioactivity in water.
- ◆ **Locational Running Annual Average (LRAA)** - An average of monitoring results for the previous 12 calendar months.

Please contact Dave Allred at (623) 333-4400, or via email dallred@avondale.org, to learn more about what you can do to help protect your drinking water sources and any questions about the annual drinking water quality report.

Health Effect Information

About The Water Quality Data Table

Arsenic

Due to the variation of the arsenic concentration, the City is providing the following statements as required by the US Environmental Protection Agency (EPA): If arsenic is less than the MCL, your drinking water meets EPA’s standards. EPA’s standard balances the current understanding of arsenic’s possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system and may have an increased risk of getting cancer.

Nitrate

In drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods-of-time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The city of Avondale is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.



Les Miller
Recycling Coordinator/Solid Waste Inspector
AKA Earth Guardian



Drew Bryck
Environmental Program Manager
AKA Earth Ranger



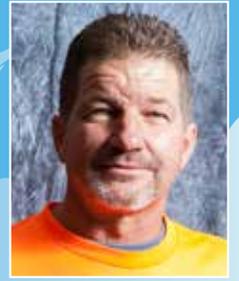
July

Earth Guardian wants you to know that securing trash in bags is not only a Maricopa County requirement, but it also reduces the breeding of flies, un-welcome odors, and spillage on our roadways. **Earth Ranger** says you can help the planet by keeping trash, debris and especially toxic materials, such as paints and motor oils from entering the waterways through the storm drains. Properly dispose of these items at one of Avondale's Household Hazardous Waste events that are held in the Spring and Fall, instead of at the curbside.

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3	<p>4</p> <p>Begin Holiday Sanitation Schedule (See table at rear of calendar.)</p>  <p>INDEPENDENCE DAY CITY OFFICES CLOSED</p>	5	6	7	8	9
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17	<p>18</p> <p>COUNCIL MEETING BULK TRASH ZONE 3</p>	19	20	21	22	23
24	<p>25</p> <p>BULK TRASH ZONE 4</p>	26	27	28	29	30
31						



Martin Castro
Equipment Operator
AKA The Silver Sealer



Joe Hendrickson
Equipment Operator
AKA The Fix



August

The **Fix** and **Silver Sealer** fill and seal cracks and potholes on city streets and sidewalks, assuring they are maintained for the safety of vehicles and pedestrians. Keep an eye out and watch for our superhero crews while maneuvering around construction zones and street projects. Let's keep our superhero's safe!

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<p>TIP Monsoon Season Did you know that lightning converts atmospheric nitrogen into a nitrogen solution for plants? Capture rainwater for your plants and get the bonus of free water and fertilizer all in one.</p>	1 <i>COUNCIL MEETING BULK TRASH ZONE 1</i>	2	3	4	5	6																																																																																												
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Sal Cruz

Lead Wastewater Collections Operator

AKA Captain Avondale

Installing water-saving appliances and plumbing fixtures can decrease water use by 30%.

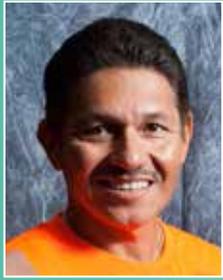
**AVONDALE'S
VONGERS
MIGHTIEST HEROES**



September

Captain Avondale and his team combats sewer back-ups by continuously surveying and inspecting over 280 sewer lines throughout the Avondale metropolis. Do your part in keeping our sewer lines clear by only flushing acceptable items down toilets and drains.

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 <p>TIP If water runs off your lawn easily, split your watering time to shorter periods to allow for better absorption.</p>		<p><i>AUGUST 2016</i></p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				<p><i>OCTOBER 2016</i></p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						1	2	3
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Pete Rides
Recycling Inspector
AKA Inspector Pete




Please DO NOT RECYCLE these items:

- ▶ Air Filters
- ▶ Garden Hoses
- ▶ Tarps
- ▶ Bubble Wrap
- ▶ Fabric
- ▶ Ceramics
- ▶ Dry Wall
- ▶ Styrofoam Containers
- ▶ Diapers
- ▶ Wood
- ▶ Pet Food Bags
- ▶ Plastic Bags
- ▶ Dirt/Rocks
- ▶ Tissue Paper
- ▶ Paper Towels
- ▶ Clothing

October

With over 26,000 households and recycling cans to inspect, **Inspector Pete** promotes the Do's and Don'ts of Recycling. Earn a thumbs up for proper recycling at your home!



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>TIP Got Hazardous Waste? Check for upcoming Household Hazardous Waste event dates posted at www.avondale.org/HHW</p>	<p>SEPTEMBER 2016</p> <p>S M T W T F S</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30</p>	<p>NOVEMBER 2016</p> <p>S M T W T F S</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30</p>				1
2	<p>3</p> <p>COUNCIL MEETING BULK TRASH ZONE 1</p>	4	5	6	7	8
9	<p>10</p> <p>BULK TRASH ZONE 2</p>	11	12	13	14	15
16	<p>17</p> <p>COUNCIL MEETING BULK TRASH ZONE 3</p>	18	19	20	21	22
<p>23</p> <p>30</p>	<p>24</p> <p>BULK TRASH ZONE 4</p> <p>NO BULK TRASH PICK UP</p> <p>31</p>	25	26	27	28	29



Lacey James

Water Resource and Regulatory Manager

AKA Sewer Girl



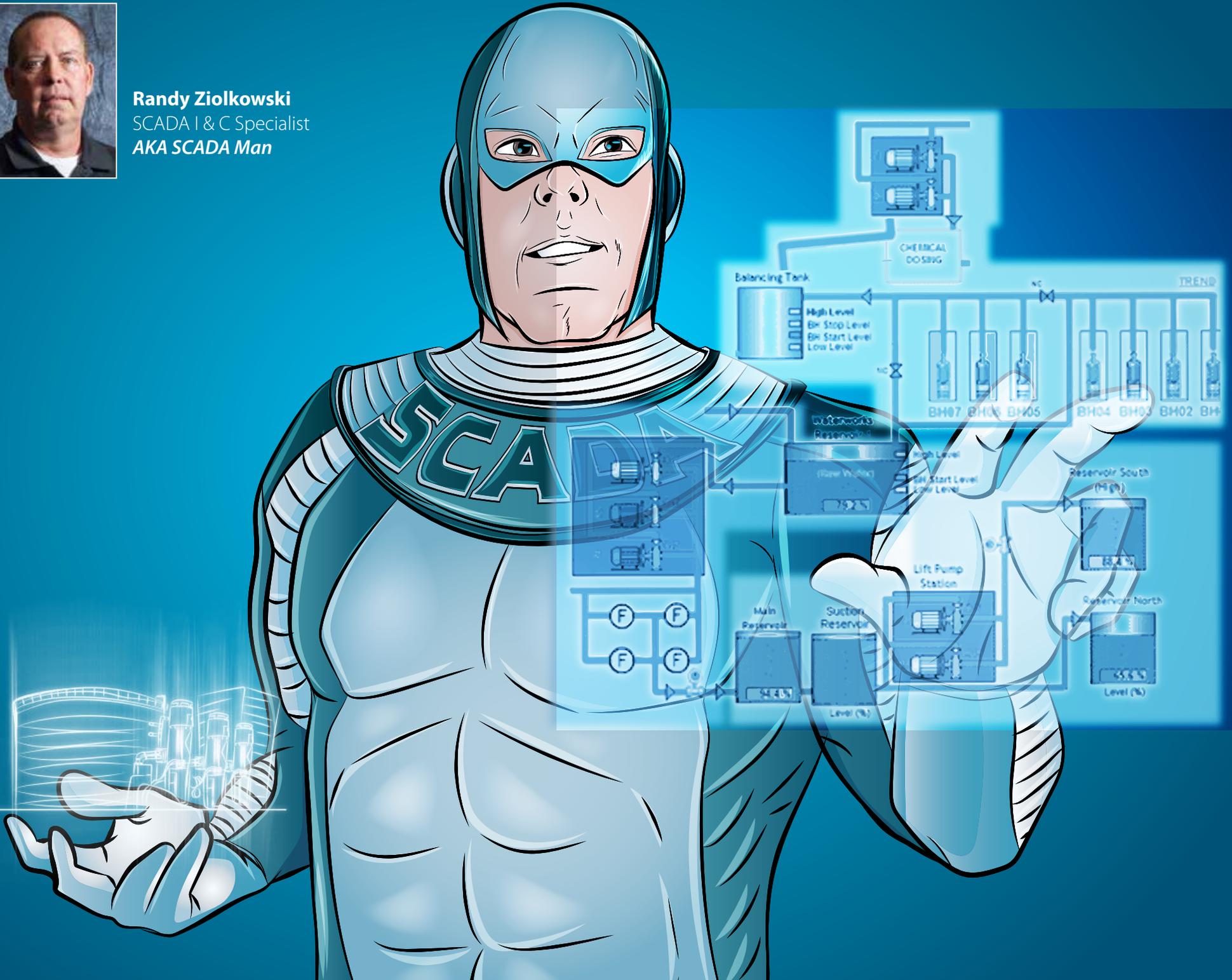
What is the biggest problem with sewer lines that requires them to be cleaned?

The biggest problem is coagulated grease and cooking oil! This occurs when warm cooking oil or grease is poured down sink drains. The cooking oil and grease will cool as it enters the sewer line and it will coagulate, causing a blockage, in much the same way cholesterol blocks arteries in humans.

What you can do to help: **Cool** your used oil/grease, **can** it, and **trash** it!



Randy Ziolkowski
SCADA I & C Specialist
AKA SCADA Man



December

SCADA Man ensures the water monitoring security systems are operational around the clock. He is constantly monitoring the controls, making sure that all is well at the water booster stations, well sites, and at the Wolf Water Reclamation Facility.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																				
<p>TIP Dispose of flushable wipes, rags, tissues, in the trash. Products labeled "disposable" cannot be thrown in the toilet. These products do not disintegrate thereby clogging up pumps and causing sewer back-ups.</p>		<p>NOVEMBER 2016</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				<p>JANUARY 2017</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					1	2	3
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<p>CHRISTMAS DAY CITY OFFICES CLOSED</p>	<p>BULK TRASH ZONE 4</p>																																																																																									



Maria Hinojos
Cross Connection Coordinator
AKA Backflow Woman



January

With backflow prevention, we can minimize the risk of contamination into the city's potable water system. **Backflow Woman** currently oversees 3,867 cross connection devices to ensure hazards do not enter the city's water distribution system. Cross connection devices range from vacuum breakers on household hose bibs to large commercial reduce-pressure principal devices found throughout the city.

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1 <i>NEW YEAR'S DAY CITY OFFICES CLOSED</i>	2 <i>COUNCIL MEETING BULK TRASH ZONE 1</i>	3	4	5	6	7																																																																																				
8	9 <i>BULK TRASH ZONE 2</i>	10	11	12	13	14																																																																																				
15	16  Begin Holiday Sanitation Schedule (See table at rear of calendar.) <i>MARTIN LUTHER KING JR DAY CITY OFFICES CLOSED</i>	17 <i>COUNCIL MEETING BULK TRASH ZONE 3</i>	18	19	20	21																																																																																				
22	23 <i>BULK TRASH ZONE 4</i>	24	25	26	27	28																																																																																				
29	30 <i>NO BULK TRASH PICK UP</i>	31		<p>DECEMBER 2016</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr> </table>	S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	<p>FEBRUARY 2017</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					 <p>TIP Check for free landscape classes that will provide guidance on how to have a lush and water thrifty yard. Classes can be found on the city's website calendar or by calling the water conservation line at (623) 333-4422.</p>
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Javier Machuca
Solid Waste Supervisor
AKA The Incredible Bulk

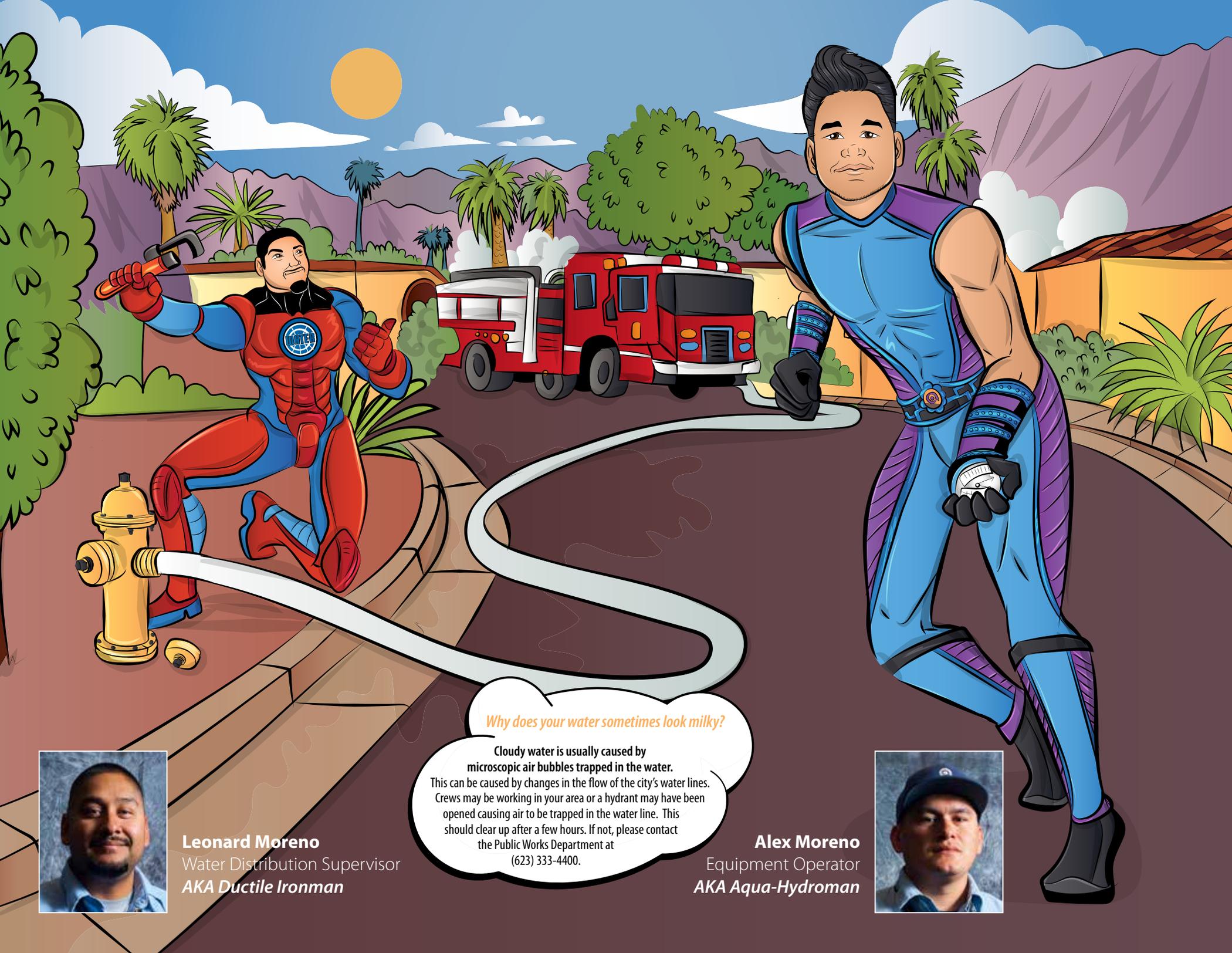
Please remember to make two piles during your bulk pick-up week, one for **GREEN waste** and one for bulk trash while still keeping to the three cubic yard monthly limit!



February

The Incredible Bulk wants you to separate the GREENS (such as brush, tree limbs and yard trimmings) from your bulk trash during your assigned pick-up week. Green waste that is collected is diverted from our landfill and converted into compostable material for local farms. We annually divert over 2 million pounds of green waste from going to the landfill. Simply make two piles during your bulk pick-up week, one for GREEN waste and one for bulk trash while still remembering the three cubic yard monthly limit!

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																					
	 <p>TIP Place bulk trash by 5 am on Monday of your designated week.</p> <p>Use 2 to 4 inches of organic mulch around plants to reduce evaporation and save hundreds of gallons of water.</p>		1	2	3	4																																																																																					
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Leonard Moreno
Water Distribution Supervisor
AKA Ductile Ironman

Why does your water sometimes look milky?

Cloudy water is usually caused by microscopic air bubbles trapped in the water. This can be caused by changes in the flow of the city's water lines. Crews may be working in your area or a hydrant may have been opened causing air to be trapped in the water line. This should clear up after a few hours. If not, please contact the Public Works Department at (623) 333-4400.



Alex Moreno
Equipment Operator
AKA Aqua-Hydrman

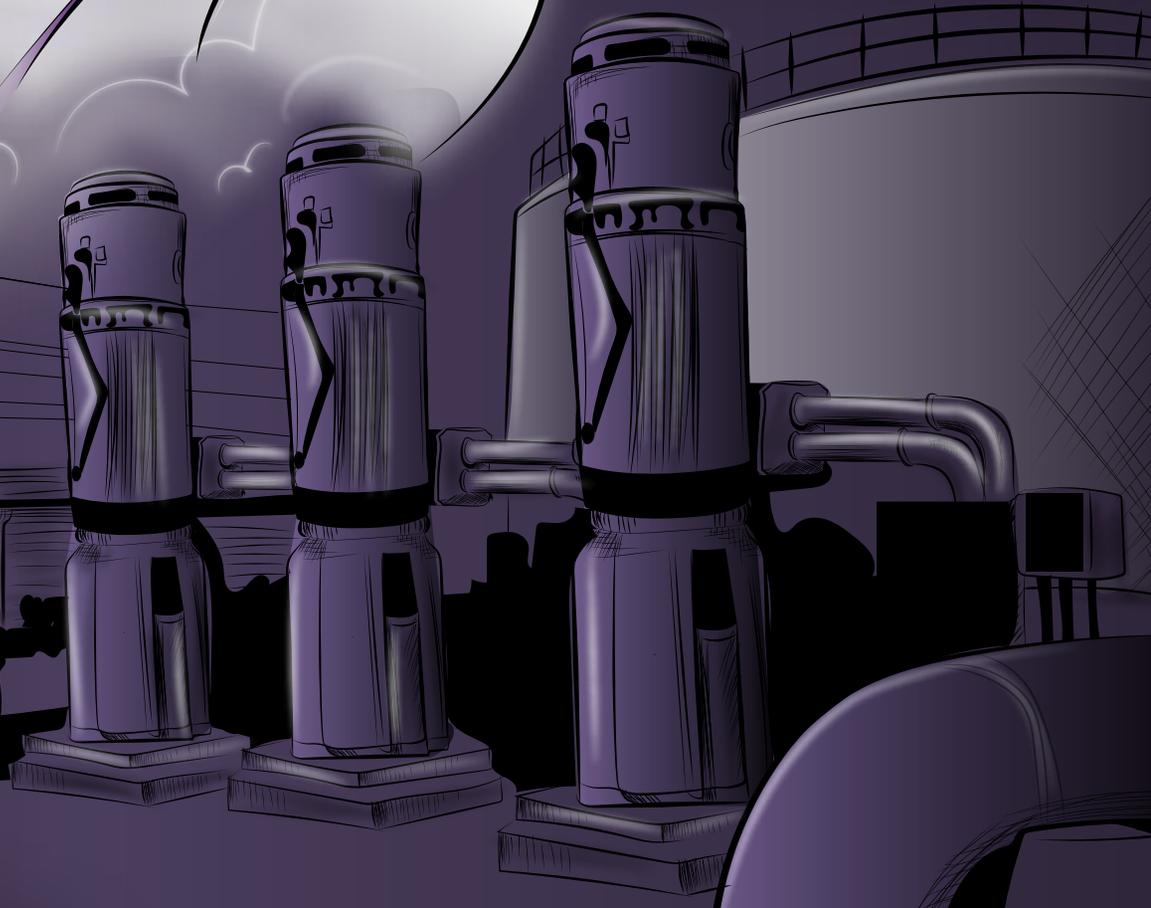
March

Delivering safe, reliable drinking water to our customers is a priority - but maintaining the 2,784 hydrants, 300 miles of water mains and reading over 20,000 water meters are also tasks for this super hero team. **Ductile Ironman** and **Aqua-Hydroman** are always on hand ensuring the community's water is safe!

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	FEBRUARY 2017 S M T W T T S 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	APRIL 2017 S M T W T T S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1	2	3	4
5	6 <i>COUNCIL MEETING BULK TRASH ZONE 1</i>	7	8	9	10	11
12 <i>NATIONAL FIX-A-LEAK WEEK</i>	13 <i>BULK TRASH ZONE 2</i>	14	15	16	17	18
19	20 <i>COUNCIL MEETING BULK TRASH ZONE 3</i>	21	22	23	24	25
26	27 <i>BULK TRASH ZONE 4</i>	28	29	30	31	TIP Fix-a-leak Month You can learn easy strategies to find leaks in and outside your home by requesting a copy of "Find and Fix Leaks that are Draining Your Budget." www.smarthomewaterguide.org



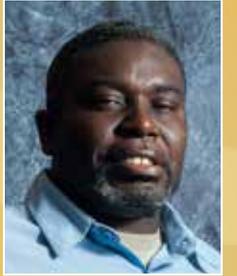
Miguel Ayala
Water Reclamation
Facility Supervisor
AKA King Reclaim



April

King Reclaim employs a combination of sophisticated instrumentation to provide reusable clean water to augment the aquifer at the McDowell Recharge site where thousands of acre feet of reclaimed water is recharged every year for future use. Last year, over 3 billion gallons were recharged ---giving water a second chance.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>MARCH 2017</p> <p>S M T W T F S</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30 31</p>	<p>MAU 2017</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30 31</p>	<p>TIP Got a smelly trash can, kitchen, or bathroom drain? Neutralize odors by sprinkling baking soda down the drain or into the trash can, pour in a cup of vinegar, wait ten minutes and rinse with hot water.</p>				1
2	3 COUNCIL MEETING BULK TRASH ZONE 1	4	5	6	7	8
9	10 BULK TRASH ZONE 2	11	12	13	14	15
16	17 COUNCIL MEETING BULK TRASH ZONE 3	18	19	20	21	22 EARTH DAY
23 30	24 BULK TRASH ZONE 4	25	26	27	28 ARBOR DAY	29

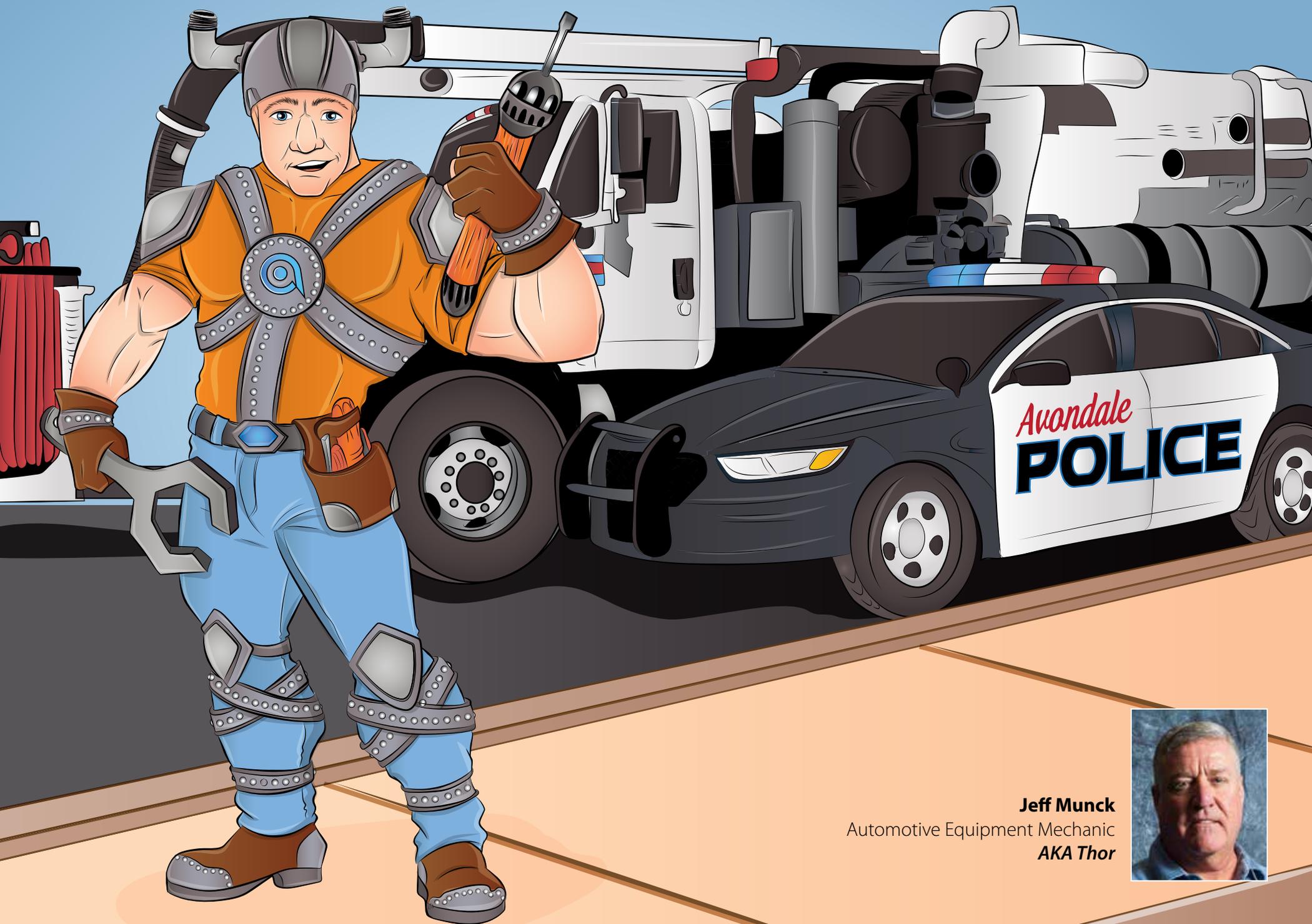


Anthony Dudley
Lead Production Operator
AKA Wellboy

May

Wellboy is responsible for the treatment of water pumped through 15 wells from the city's underground water source, ensuring that it meets environmental quality standards, and storing it in order to meet the 10-million gallon daily water demand of our customers.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																											
 <p>Adjust your watering schedule to match seasonal conditions and landscape requirements. Deep, infrequent watering encourages strong healthy root systems that can better tolerate intense heat and periods of drought.</p>	1 <i>COUNCIL MEETING BULK TRASH ZONE 1</i>	2	3	4	5	6																																																																																											
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28	29  <p>Begin Holiday Sanitation Schedule (See table at rear of calendar.)</p> <p>MEMORIAL DAY CITY OFFICES CLOSED</p>	30 <i>NO BULK TRASH</i>	31		<p><i>APRIL 2017</i></p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							<p><i>JUNE 2017</i></p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1 2 3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table>	S	M	T	W	T	F	S							1 2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
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Jeff Munck
Automotive Equipment Mechanic
AKA Thor



June

Thor's job is hammering out the heavy work of repairing and maintaining Avondale's fleet of 360 vehicles that the police, fire, streets, sanitation and water staff use in their everyday service calls.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																											
	<p>TIP A water hose can waste up to 12 gallons per minute; install an automatic shut-off valve for your hose.</p>	<p>MAY 2017</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				<p>JULY 2017</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						1	2	3
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Third Unregulated Contaminant Monitoring Rule (UCMR3) Table

Substances	Units	MCL	Lowest Level	Highest Level	Avg.	Major Source in Drinking Water
Chromium (2014)	ppb	100	4.8	5.3	5.1	Naturally occurring element; used in making steel and other alloys; chromium-3 or chromium-6 forms are used for chromeplating, dyes and pigments, leather tanning and wood preservation.
Molybdenum (2014)	ppb	None	1.3	1.3	1.3	Naturally occurring element found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical agent
Strontium (2014)	ppb	None	1500	1700	1600	Naturally occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode ray tube televisions to block x ray emissions.
Vanadium (2014)	ppb	None	13	14	13.5	Naturally occurring elemental metal; used as a vanadium pentoxide which is a chemical intermediate and a catalyst
Chlorate (2013)	ppb	None	100	190	152	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chlorine dioxide.
Chromium-6 (2013)	ppb	None	1.2	11	6	Naturally occurring element; used in making steel and other alloys; used for chromeplating, dyes and pigments, leather tanning and wood preservation.
1,4-Dioxane (2013)	ppb	None	.08	0.33	0.21	A synthetic industrial chemical that is used as a solvent in products such as paints and lacquers, and in processes such as organic chemical manufacturing.

Avondale's Partnerships

The City of Avondale actively partners with other agencies and organizations to enhance the range of resources and information available to you.

Water, Use it Wisely

Avondale partners with Valley cities in this campaign to promote easy ways to save water. Learn how to make wise water decisions - visit www.wateruseitwisely.com.



Water Conservation Education Links & School Programs

Contact the Public Works Department at (623) 333-4422 for free water conservation presentations or log on to www.avondale.org/water for cool interactive water games for kids. Also visit www.projectwet.com.



Tap into Quality

Learn more about the safety, convenience and affordability of tap water. "Tap Into Quality" is a public education campaign designed to keep you informed about tap water. To learn more, visit www.tapintoquality.com.



Water Sense Partner

A partnership program with a goal of protecting the future of our nation's water supply by promoting and enhancing the market for water-efficient products and services. For WaterSense resources visit: www.epa.gov/watersense.



Arizona Municipal Water Users Association (AMWUA)

A voluntary, non-profit corporation established by municipalities in Maricopa County for the development of urban water resources policy. To learn more, visit www.amwua.org.



SRP

Salt River Project (SRP) is the oldest multipurpose federal reclamation project in the United States. SRP has been serving central Arizona since 1903. Today, SRP is one of the nation's largest public power utilities and one of the largest raw-water suppliers in Arizona. SRP manages 13,000-square-miles on the Salt and Verde River watersheds that include seven reservoirs. SRP delivers about 800,000 acre-feet of water annually to a 375-square-mile service area using an extensive system of canals, laterals and wells. SRP water is recharged at the City of Avondale recharge basins located at Agua Fria and McDowell Road. www.srpnet.com/savewater



CAP

Central Arizona Project is a 336-mile system of aqueducts, pumping plants and siphons designed to carry 1.5 million acre-feet of Colorado River water each year from Lake Havasu through Phoenix to south of Tucson. The water (an acre-foot is 325,851 gallons) flows under riverbeds, through tunnels and into one reservoir, Lake Pleasant, during the course of its journey. It took the Bureau of Reclamation more than 20 years (1973 - 1996) to build CAP, now managed and maintained by the Central Arizona Water Conservation District. www.cap-az.com



Learn More About Water

United States Environmental Protection Agency Safe Drinking Water Hotline

(800) 426-4791 | www.epa.gov/safewater

Arizona Department of Environmental Quality

(602) 771-2300

www.adeq.state.az.us/environ/water/index.html

Maricopa County Environmental Services Department

(602) 505-6666 | www.maricopa.gov/envsvc/WaterWaste

Bulk Trash Service

ZONE 1 - Must be out by 5 am on the **1st Monday** of the month to get serviced this week.

ZONE 2 - Must be out by 5 am on the **2nd Monday** of the month to get serviced this week.

ZONE 3 - Must be out by 5 am on the **3rd Monday** of the month to get serviced this week.

ZONE 4 - Must be out by 5 am on the **4th Monday** of the month to get serviced this week.

Bulk Trash Tips & Reminders

- ▶ 3 Cubic yard limit
- ▶ No sod, dirt, rocks, bricks, tile or similar material will be collected
- ▶ Place in street (please keep bulk off private property and side walk)
- ▶ Brush or long wood needs to be cut to 4 feet in length and not in excess of 6 inches in diameter
- ▶ Any box or container will be removed as bulk trash
- ▶ Equipment might leave small material, debris and leaves
- ▶ Box and bag small items for easy pick-up

If you have any questions or need additional information, please contact the Public Works Department at 623) 333-4700.

Holiday Garbage & Recycling Schedule

On holiday weeks, collections days shift by one day. Please review the schedule below to determine how your collection day may be effected.

SEPTEMBER	MON	TUE	WED	THU	FRI	SAT
Labor Day (NO SERVICE) Sept. 5	9/5	→ 9/6	→ 9/7	→ 9/8	→ 9/9	→ 9/10
NOVEMBER	MON	TUE	WED	THU	FRI	SAT
Veteran's Day (NO SERVICE) Nov. 11					11/11	→ 11/12
Thanksgiving Day (NO SERVICE) Nov. 24				11/24	→ 11/25	→ 11/26
JANUARY 2016	MON	TUE	WED	THU	FRI	SAT
Martin Luther King, Jr Day (NO SERVICE) Jan. 16	1/16	→ 1/17	→ 1/18	→ 1/19	→ 1/20	→ 1/21
FEBRUARY	MON	TUE	WED	THU	FRI	SAT
Presidents' Day (NO SERVICE) Feb. 20	2/20	→ 2/21	→ 2/22	→ 2/23	→ 2/24	→ 2/25
MAY	MON	TUE	WED	THU	FRI	SAT
Memorial Day (NO SERVICE) May 29	5/29	→ 5/30	→ 5/31	→ 6/1	→ 6/2	→ 6/3

Recycle These Items

All Items Need To Be Placed Loosely In Container



CARDBOARD:
Must be cut down and empty of all packing materials



CARDBOARD:
Such as half-gallon milk or juice cartons



CHIPBOARD:
Like cereal, cracker, pasta and cake mix boxes (*remove inserts*)



MIXED PAPER:
Such as magazines, junk mail, catalogs, brown paper bags, and phone books.



GLASS:
Food or beverage glass bottles & jars only (*No window panes, mirrors, ceramics or dishes*)



NEWSPAPER:
Including advertising inserts



ALUMINUM CANS:
Beverage cans, clean foil and disposable baking pans



STEEL/TIN CANS:
Like soup or vegetable cans



PLASTIC CONTAINERS:
All numbers 1 thru 7; no food take-out containers



Frequently Asked Questions

1. Why is my tap water hard?

The hardness of water is due to the presence of calcium and magnesium that are naturally present in the water.

2. Do I need to use water filters or softeners at home to make my water safe?

Since Avondale water meets or exceeds federal, state and local water quality standards, water filters are typically not necessary unless advised by your physician or desired as a personal choice. If you choose to use filters or softeners be sure to follow manufacturers' maintenance instructions.

3. Why does my water smell like chlorine?

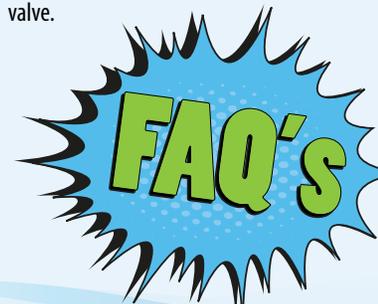
Avondale's entire water supply is disinfected with chlorine before being delivered to consumers. Using chlorine in water is one of the most widely used methods to safeguard drinking water. We also incorporate some of the most advanced water treatment processes available to treat your water.

4. How can I improve the taste and odor of my water?

To improve taste and odor place a slice of lemon in your water, leave a container of water uncapped for 30-60 minutes and place it in the refrigerator, or use a filter on your faucet or refrigerator. (Be sure to change filters according to manufacturer's instructions.)

5. How do I turn off my water if I have a broken pipe or irrigation leak?

Water can be turned off at the gate valve, generally located at the outside water faucet entering your home or if it's an irrigation leak, turn off the irrigation valve.



Avondale

Public Works Department
399 E. Lower Buckeye Road
Avondale, AZ 85323
www.avondale.org

Master Gardener empowers residents with information and resources to make wise indoor and outdoor water decisions. Residents are invited to attend free landscape classes to learn how to save water outdoors while creating a thriving landscape with minimal water.



Esmie Avila
Water Conservation Specialist
AKA Master Gardener

MASTER GARDNER

