

ORIGINAL  
SUNRISE WATER CO

9098 W. Pinnacle Peak Road  
Peoria, Arizona 85383



0000161801

Phone: 623-972-6133

e-mail: jdcampbell@jdcwater.com

RECEIVED Fax: 623-566-8925

2015 SEP 11 A 10: 53

AZ CORP COMMISSION  
DOCKET CONTROL

September 11, 2015

Arizona Corporation Commission  
Docket Control  
1200 W. Washington Street  
Phoenix, AZ 85007

RE: Sunrise Water Co. -Maricopa County Environmental Service Approval Of Construction  
Well #2 and Well #4, Docket No. W-02069A-13-0261 and Decision No. 74451

Dear Madam/Sir:

In compliance with Decision No. 74451, please find enclosed copies of the Maricopa County  
Environmental Services Department Approval of Construction for the Well No. 2 Booster  
Pumping Station Site and the Well #4 Booster Pumping Site

Cordially,

Marvin E. Collins  
Manager

**Original and 13 copies filed**  
on September 11, 2015, with:

Docket Control  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, Arizona 85007

Arizona Corporation Commission

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# Maricopa County

Environmental Services

Water and Waste Management Division

DATE: July 23, 2015  
OWNER: Sunrise Water Company

MCESD Project #: 2014069  
SYSTEM ID #: 04-07-070

1001 N. Central Ave., Suite 150  
Phoenix, AZ 85004  
Phone: (602) 506-6666  
Fax: (602) 506-6925  
TDD: 602 506 6704  
www.maricopa.gov/cnsvsc

## CERTIFICATE OF APPROVAL OF CONSTRUCTION WITH STIPULATIONS

**PROJECT DESCRIPTION:** Sunrise Water Company, Well #2 Arsenic Removal System (ARS). Completed work includes installation of a 220 gallon-per-minute (GPM) ARS, installation of an onsite chlorine generation system, and replacement of a packaged booster pump station.

### ARS:

Well #2 is a 220 GPM well located on the west side of North 89<sup>th</sup> Avenue about one quarter mile south of West Pinnacle Peak Road between West Villa Chula Lane and West Patrick Lane. The current total arsenic concentration of Well #2 is 36 micrograms per liter ( $\mu\text{g/l}$ ). The ARS removes arsenic from the water to a target of 7  $\mu\text{g/l}$  to comply with the maximum contaminant limit (MCL) of 10  $\mu\text{g/l}$ . Due to increased growth within the Sunrise water system, Well #2 shall be utilized to help meet summer peak demands. Both the ARS and the onsite chlorine generation system are mounted on a new concrete pad.

Since Well #2 shall only be utilized to meet peak water demands, a single-vessel adsorption package was installed. The ARS manufactured by Canyon State Filtration, LLC of Sedona, AZ. A 7.8 GPM per square foot ( $\text{GPM/ft}^2$ ) loading intensity is utilized for the 6'-diameter vessel with 4.25' of media thickness producing an empty bed contact time of 4.1 minutes. The vessel has been supplied with the Graver Technologies Metsorb HMRG 16/60 titanium disposable adsorption media. No Well #2 ARS bypass is approved with this project.

### Onsite Chlorine Generation System

A Parkson SM-15 Mixed Oxidant onsite chlorine generating system has been installed. The system is capable of producing a 0.40% mixed oxidant solution at the equivalence of 15 pounds per day of chlorine; a target of 2 milligrams of chlorine per liter ( $\text{mg/l}$ ) is proposed. The system shall provide disinfection for Well #2 and for one off-site well producing an additional 220 GPM. Both wells convey flow to two storage reservoirs at the Well #2 site. The system includes two metering diaphragm pumps with 25 pounds per square inch- gauge (PSIG) discharge pressure at 6.9 gallons-per-hour (GPH) of oxidant flow. The system is housed in a fiberglass reinforced plastic (FRP) shelter.

### Booster Pump Station Replacement

Two booster pumps were removed and replaced with a packaged booster pump station. The two pump motors are variable-frequency-driven (VFD), and each pump has a capability of 300 GPM at 185' of total discharge head (TDH).

**LOCATION:** Peoria, Maricopa County  
33.6927° N, 112.2514° W  
AZ Parcel No. 200-08-095  
(See Description)  
Peoria, AZ 85383

**PROJECT OWNER:** Sunrise Water Company  
Attn. Mr. Marvin Collins  
9098 W. Pinnacle Peak Rd  
Peoria, AZ 85383

**WELL:** Well No. 2: ADWR\* #55-626343  
Total Flow= 220 GPM  
Total Arsenic= 36  $\mu\text{g/l}$   
\*ADWR= Arizona Department of Water Resources

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Pursuant to Arizona Administrative Code, Title 18, Chapters 4 and 9 (AAC R18-4,9) and Maricopa County Environmental Health Code (MCEHC) Chapters II and V, this certificate of approval of construction (AOC) for the above-described facilities as represented in the approved plan documents on file with the Department is hereby given subject to the following provisions:

1. This AOC is issued based on submission of: validation and commissioning data for May to July, 2015 testing and an operation and maintenance (O&M) manual dated and sealed 06/24/2015 by J. Ryan Christensen, PE (#41186).
2. Any change in the approved design that may affect capacity, quality, flow, location, or operational performance of the system shall be submitted to this Department for review, and Department approval shall be obtained prior to undertaking the work affected by the change.
3. This approval is void if major modifications occur to this system without the knowledge and consent of the Department.
4. Failure to comply with all conditions of this certificate may result in forfeiture and cancellation of this permit and may require the treatment facility to be immediately taken out of service.
5. This approval is based on the following conditions:
  - No other sources shall be connected to the facility or shall be blended with the treated water without Department approval. Addition of groundwater production wells or taking groundwater production wells off-line requires a formal notification of this Department's Drinking Water Program and completion of change in status documentation;
  - All hand-operated valves that are capable of throttling flow through the facility shall be locked into position or have their handles removed to reduce the possibility of tampering; and
  - No other types or formulas of new or regenerated media shall be installed in the vessels without Department approval.
6. The water treatment facility shall meet all applicable sampling and reporting requirements under the Safe Drinking Water Act Rule, AAC R18-4 and subsequent amendments.
7. The Department reserves the right to modify the AOC pursuant to future state regulations.
8. A Grade 2 water treatment operator (the Operator), certified by the Arizona Department of Environmental Quality (ADEQ), is required for this facility. The Operator, if remote from the site, shall inspect the facility as often as necessary to assure proper operation and maintenance, but in no case less than monthly. The remote Operator shall be accessible by telephone at all times. The remote Operator shall: instruct the onsite representative in the proper operation and maintenance of the facility; update the operations and maintenance instructions as necessary; and ensure that all required tests are performed and records are kept.
9. All chemicals and equipment that come into contact with drinking water shall conform to National Sanitation Foundation/American National Standards Institute/ (NSF/ANSI) 60 and 61, respectively and in accordance with AAC R18-4-213.
10. No connection may exist between potable water and non-potable water.
11. Provide appropriate signage for all hose bibb connections (both potable and non-potable).
12. Provide hose racks at all hose bibb locations (both potable and non-potable).
13. The Department reserves the right to modify this approval pursuant to future state regulations.
14. Representative(s) of the Department shall be allowed access to the site to conduct inspections of this facility during reasonable hours.

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15. The Owner is responsible for obtaining all other permits related to the project from other agencies and authorities.

**WATER AND WASTE MANAGEMENT DIVISION**

*Eric J. Kampanger, PE for*

By \_\_\_\_\_  
**Dale G. Bodiya, PE**  
**Manager Water / Wastewater Treatment Program**

**Plan Approval Date: July 23, 2015**

cc: Arizona Corporation Commission, Utilities Division - Engineering Section, 1200 W Washington Street, Phoenix, AZ 85007-2996  
Arizona Department of Environmental Quality, Attn. Drinking Water Section, 1110 W. Washington Street, Phoenix, AZ 85007  
Jim Knoll, Graver Technologies, 2950 Ross Road St, Leonard, MD 20685  
Kevin Chadwick, PE, MCESD Manager, Water & Waste Management Division  
Korissa Entringer, RS, MCESD Manager, Drinking Water Program  
Nick Gudovic, Canyon State Filtration LLC, 110 White Tail Drive, Sedona, AZ 86351  
Ryan Christensen, PE, RBF Consulting, 2929 N Central Av, Suite 800, Phoenix, AZ 85012  
MCESD Facilities File  
MCESD Project File



### Approval of Construction and/or Verification of General Permit Conformance

One (1) MCESD# Per Request / Application

PLEASE PRINT CLEARLY

PWS# 04-07- 0 7 0 MCESD # DWR 14-00433 Type of Component Storage Tank  
(WATER COMPONENTS ONLY) (Specify water, gravity sewer, reuse, lift station, storage tank, etc.)

> Wells Only: DWR# 55- \_\_\_\_\_ \*Must have source approval before applying for AOC.

Project Name: Sunrise Water Well #4 Storage Tank

Project Address: NE corner of 79th Ave and Williams Road  
(Physical location of project)

Project Description: A new 400,000 gallon welded steel reservoir will be added to the site along with miscellaneous site piping

Project Owner: Marvin Collins Job Title Manager

Company Name Sunrise Water Co.

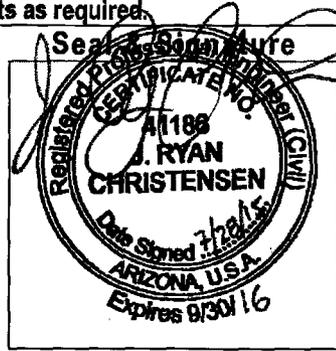
Mailing Address 9098 W. Pinnacle Peak Road

City Peoria State AZ Zip Code 85383

Signature of Project Owner Marvin E. Collins Date 7/21/2015

#### Engineer's Certificate of Completion

I, J. Ryan Christensen, a Professional Engineer registered in the State of Arizona; confirm that the project was completed in compliance with the plans and specifications approved by the Department, except as noted on the "as-built" plans. Attached are applicable test results as required.



Engineer's Phone 602-279-1234

Engineer's Fax 602-279-1411

#### Department Use Only

#### Approval of Construction and/or Verification of General Permit Conformance

For the project as described above, the Project Owner is granted an Approval of Construction and/or Verification of General Permit Conformance for operation and/or discharge under the terms of General Permit 4.01 in accordance with Title 18, Chapter 9, and Permit Article 2 (Wastewater); And/Or Title 18, Chapters 4 and 5 and Chapters IV and V of The Maricopa County Environmental Health Code (Water).

By Wesley A. Shumard  
Wesley A. Shumard, PE, Civil/CEM Engineer  
Subdivision Infrastructure & Planning

Date 8/11/15



### Approval of Construction and/or Verification of General Permit Conformance

One (1) MCESD# Per Request / Application

PLEASE PRINT CLEARLY

PWS# 04-07- 0 7 0 MCESD # DWR 14-00432 Type of Component Waterline  
(WATER COMPONENTS ONLY) (Specify water, gravity sewer, reuse, lift station, storage tank, etc.)

> Wells Only: DWR# 55- \_\_\_\_\_ \*Must have source approval before applying for AOC.

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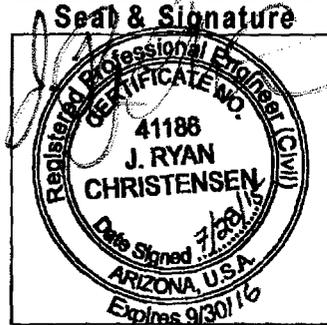
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Signature of Project Owner *Marvin E. Collins* Date 7/21/2015

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By *Wesley A. Stoward*  
Wesley A. Stoward, PE, Senior Civil Engineer  
Subdivision Infrastructure & Planning

Date 8/11/15