



Turquoise Ridge Joint Venture TEL (775) 529-5001
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Golconda, Nevada
USA 89414

February 7, 2013

Department of Water Conservation and Natural Resources
Division of Water Resources
901 South Stewart Street, Suite 2002
Carson City, Nevada 89701

RE: Water Conservation Plan 2013 – 5 year update

To Whom it may concern,

Attached is the Water Conservation Plan for Barrick Turquoise Ridge Inc. System NV0002528. If you have any questions or concerns regarding this plan please contact me at 775-529-5001 ex. 2314, or email at jbarto@barrick.com.

Sincerely,

A handwritten signature in black ink that reads "Jessie Barto". The signature is fluid and cursive, with a large loop at the end of the last name.

Jessie Barto
Environmental Engineer

HAND DELIVERED

Barrick Turquoise Ridge, Inc.

Fresh Water Conservation Plan



**Turquoise Ridge Public Water System
PWS ID NV002528**

Revised
2/6/2013

Barrick Turquoise Ridge water system is a Non Transient-Non Community Public water system located in the Osgood Mountain range approximately 28 miles North East of Golconda, Nevada and serves approximately 500 persons.

The potable water supply comes from a well located in the Kelly Creek Basin approximately 5 miles from the mine site.

The potable water system consists of 1 active well, a flow control valve, a flow equalization tank (chlorinated), raw water pumps, a sodium hypochlorite addition system, Potable Water Treatment Plant (adsorption treatment - arsenic removal), two potable water storage tanks (chlorinated), and 12 service connections.

The active fresh well also supplies water to a fresh water storage tank, which supplies water for dust suppression on roadways, stores water for emergency fire suppression, and supplies water for cattle in the summer.

In accordance with the required provisions for a water conservation plan, Barrick Turquoise Ridge Inc. submits the following:

NRS 540.141

1(a) Methods of public education to:

(1) Increase public awareness of the limited supply of water in this State and the need to conserve water.

-The attached notice is posted on bulletin boards throughout the mine site.

-During the Environmental portion of the Mine Site Annual Refresher Training the objectives and goals of the Water Conservation Plan are discussed.

(2) Encourage reduction in the size of lawns and encourage the use of plants that are adapted to arid and semiarid climates.

-There are no lawns or shrubbery on the mine site.

(b) Specific conservation measures required to meet the needs of the service area, including, but not limited to, any conservation measures required by law.

-As plumbing fixtures wear out or break, they will be replaced with a low flow variety as soon as possible.

-Magnesium Chloride is used as a dust suppressant on heavily traveled roadways to help reduce the amount of water needed to control dust.

(c) The management of water to:

(1) Identify and reduce leakage in water supplies, inaccuracies in water meters and high pressures in water supplies; and

(2) Where applicable, increase the use of effluent.

-Any suspected leaks are investigated and repaired as soon as possible.

-There are no metered connections, but flow meters at the Potable Water Treatment Plant monitor flows from the well. Flow meters also monitor flow through the pressure tanks at the Main Turquoise Ridge area.

-Distribution pressures are controlled/monitored by: the pump at the well, a regulator in building at the Potable Water Treatment Plant as water enters, pressure differential through the adsorption filters in the plant, pressures at the storage tanks, and the pressure tanks and pumps at the Main Turquoise Ridge area.

(d) A contingency plan for drought conditions that ensures a supply of potable water.

- In the event of drought, potable water will be hauled in from local systems utilizing a potable water hauler.

-If the drought affects the potable water hauler to the extent that they cannot provide potable water, potable water storage will be used for emergency eyewash stations only.

-Portable restroom facilities and bottled water are provided on site.

(e) A schedule for carrying out the plan.

-All appropriate personnel will be informed of the emergency and notified of the steps that need to be taken until conditions improve. In addition, employees will be informed through posting notices at bathroom facilities, bulletin boards and e-mails.

(f) Measures to evaluate the effectiveness of the plan.

-On site supervisors and maintenance personnel will monitor conditions on a regular basis and make adjustments as necessary.

- Flow meter readings are recorded and tracked on daily logsheets.
- A new water balance software, Goldsim, was implemented in 2012 to help track and model water consumption.
- A Water Conservation Measures table has been developed to track selected water conservation measures, and assess their effectiveness.

(g) For each conservation measure specified in the plan or joint plan, an estimate of the amount of water that will be conserved each year as a result of the adoption of the plan or joint plan, stated in terms of gallons of water per person per day.

- There are no metered connections, so unable to measure/estimate conservation at each building.
- Turquoise Ridge estimates 30-60K gallons of water will be saved per day for dust suppression on roadways, through the application of Magnesium Chloride.

2. Analysis of the feasibility of charging variable rates for the use of water to encourage the conservation of water.

- The potable water is used by employees and contractors only, so there are no meters or paying customers.

NRS 540.151

1. Except as otherwise provided in subsection 5, each supplier of water which supplies water for municipal, industrial or domestic purposes shall adopt a plan to provide incentives:

- (a) To encourage water conservation in its service area;**
- (b) To retrofit existing structures with plumbing fixtures designed to conserve the use of water; and**
- (c) For the installation of landscaping that uses a minimal amount of water.**

Since there are no metered or paying customers, there are no incentives provided but the above three items are covered under NRS 540.141 above.

Attachment:

Conserve Water for Future Generations

CONSERVE WATER FOR FUTURE GENERATIONS

- **MAKE SURE ALL FAUCETS AND SHOWERS ARE SHUT OFF AFTER USE.**
- **REPORT ALL LEAKING VALVES OR LINES TO THE MAINTENANCE DEPARTMENT OR YOUR SUPERVISOR.**
- **PLEASE PRESERVE NEVADA'S WATER FOR FUTURE GENERATIONS, IT IS EVERYONE'S JOB TO CONSERVE WATER**

**Barrick Turquoise Ridge Inc
PWS # NVD0002528**