

Option Submittal Form

Contact Information (optional):

Keep my contact information private

Contact Name: _____	Title: _____
Affiliation: _____	
Address: _____	
Telephone: _____	E-mail Address: _____

Date Option Submitted: December 26, 2011

Option Name:

mandating water saving options for large users

Description of Option:

My observations of water waste include the following points which require more stringent action toward water conservation:

- 1) drips, leaks, fountains, ponds and other such "amenities" in hotels/motels (remember one faucet dripping can waste 200,000 gallons in 24 hours) I recommend mandating repair within 24 hours of first documentation of any water leak; ban fountains and ponds; plant flowers instead.
- 2) water in streets from broken lawn sprinklers; I recommend first banning all grass for landscaping use; use desert landscaping only. Ban all grass from home landscaping; plant trees for shade & cooling.
- 3) too many golf courses; golf courses each use millions of gallons daily; ban new golf courses in housing developments; mandate reductions of water used on golf courses, for greens only, mandate invention of fairways with other than grass which must be watered. For instance, use of wood chips, leaves and other such plant debris could allow balls to roll, bounce etc. and no water would be required. Arizona has hundreds of these water guzzlers and a tiny percentage of population ever uses them at the expense of the majority of other residents.
- 4) mandate immediate replacement of all bathroom plumbing with laser flushing toilets and the auto-timed sink/faucet/soap dispensers and reduce paper waste by mandating installation of high power air hand driers.
- 5) mandate covering the CAP and other canals in the Phoenix area to prevent water evaporation
- 6) demolish all dams to allow ground water recharge by naturally flowing rivers
- 7) forbid any new developments which have no named proven source of water; an imperfect example of a community built "on air and promises"

Location: Describe location(s) where option could be implemented and other areas that the option would affect, if applicable. Attach a map, if applicable.

Carefree, AZ mandated specific low water use for their one golf course because their water table was dropping dramatically. Scottsdale, AZ pretends to tend to water in streets from leaks so their policies are in place but enforcement is weak. The entire Phoenix metro area with the hotels built and planned must be responsible for wise water use. By law homeowners are mandated to have low flush toilets and low flow shower heads but hotels have no such mandates apparently.

Quantity and Timing: Roughly quantify the range of the potential amount of water that the option could provide over the next 50 years and in what timeframe that amount could be available. If option could be implemented in phases, include quantity estimates associated with each phase. If known, specify any important seasonal (e.g., more water could be available in winter) and/or frequency (e.g., more water could likely be available during above-average hydrologic years) considerations. If known, describe any key assumptions made in order to quantify the potential amount.

Millions of gallons of water would be saved on a weekly basis with the implementation of such strategies as mentioned above. None of it is based on seasons here. My suggestions are all based on logic. Homeowners are forced to put in sprinkler systems and back flow valves. Back flow valves are an idiot idea and should be banned. They have literally cost us thousands of dollars in replacement costs because of their defective designs.

Additional Information

Technical Feasibility: Describe the maturity and feasibility of the concept/technology being proposed, and what research and/or technological development might first be needed.

Some of my ideas have been implemented around some of the cities comprising the Phoenix metro area but there is no one consistent plan for the entire area. This needs to be done. Research is needed of the successes in each metro community; covers for the canals would require research whether such a system exists elsewhere and associated costs. Every college, major industry, major office building, state, city and county buildings should be required to evaluate existing needs and submit target dates for accomplishing assigned goals. Needs for repairs and costs involved would need to be identified. Research is needed of golf courses in other states which do not use watered grass for fairways. I know alternatives exist and this MUST be mandated or the hundreds of golf courses with their various owners will not change! Research is needed to evaluate the

Costs: Provide cost and funding information, if available, including capital, operations, maintenance, repair, replacement, and any other costs and sources of funds (e.g., public, private, or both public and private). Identify what is and is not included in the provided cost numbers and provide references used for cost justification. Methodologies for calculating unit costs (e.g., \$/acre-foot or \$/million gallons) vary widely; therefore, do not provide unit costs without also providing the assumed capital and annual costs for the option, and the methodology used to calculate unit costs.

I do not have resources for this information but such cost and funding information can be generated by the existing industries or political entities if they are mandated to do so by a specific date and for the reasons listed (saving water in a desert environment!).

Permitting: List the permits and/or approvals required and status of any permits and/or approvals received.

I have no information on this.

Legal / Public Policy Considerations: Describe legal/public policy considerations associated with the option. Describe any agreements necessary for implementation and any potential water rights issues, if known.

My suggestions require a paradigm shift!!!! Get out of the mantra of green golf courses for "everyone" and water amenities for potential guests. Faults in water law require new legislation and new policies. Inform the general public about the reasons for particular power generation and low water use to gain public support.

Implementation Risk / Uncertainty: Describe any aspects of the option that involves risk or uncertainty related to implementing the option.

We the public will not accept any complaints from the large water using institutions mentioned above when we in households are being told to cut back and restrict and large users waste more than thousands of households. Implementation has occurred of various parts of my suggestions yet without a master plan and overall mandates nothing is being accomplished quickly.

Reliability: Describe the anticipated reliability of the option and any known risks to supply or demand, such as: drought risk, water contamination risk, risk of infrastructure failure, etc.

As I mention above, reliability of these options is already proven in many instances. It is just requiring a paradigm shift to the present day needs of water conservation from the era of building dams! It requires a paradigm shift to present day needs of water conservation from the builders mind set of water conservation is what "others" do.

Water Quality: Identify key water quality implications (salinity and other constituents) associated with the option in all of the locations the option may affect.

Given Arizona is an inland state we do not have the likelihood of salt water contaminating our aquifers or soils. However industry has done serious poisoning of water in major sections of Tempe, Scottsdale, Phoenix with TCE and other industrial poisons. So controls of industry contaminants is key to aquifer preservation and cleaning up of the waste fund sites.

Energy Needs: Describe, and quantify if known, the energy needs associated with the option. Include any energy required to obtain, treat, and deliver the water to the defined location at the defined quality.

Energy Required	Source(s) of Energy
Unknown to myself	

Hydroelectric Energy Generation: Describe, and quantify if known, any anticipated increases or decreases in hydroelectric energy generation as a result of the option.

Location of Generation	Impact to Generation
Industry must provide this information especially reports on the consistency	

Recreation: Describe any anticipated positive or negative effects on recreation.

Locations	Anticipate Benefits or Impacts
There should not be lakes for speedboats.	Rivers are wonderful recreation areas--just a different kind from the speedb

Environment: Describe any anticipated positive or negative effects on ecosystems within or outside of the Colorado River Basin.

Locations	Anticipated Benefits or Impacts
Positive impacts on ecosystems would result overall river systems if dams w	

Socioeconomics: Describe anticipated positive or negative socioeconomic (social and economic factors) effects.

The power companies must be honest about their economics of hydroelectric power generation. They have mandates to use alternative power system development and considering draining their water evaporating lakes and restoring river drainages would create a new culture for the millions of citizens who moved here in the last forty years.

Other Information: Provide other information as appropriate, including potential secondary benefits or considerations. Attach supporting documentation or references, if applicable.