

MEMORANDUM

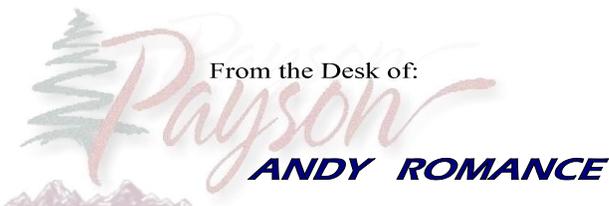
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To: Mike Ploughe, via EMAIL mploughe@ci.payzon.az.us
Copy: Fred Carpenter, via EMAIL fcarpenter@ci.payson.az.us
From: Andy Romance
Subject: Star Valley Safe Yield Study
Date: July 19, 2006

MIKE. The following summarizes some questions & comments we discussed today. If you review them with Clear Creek Associates, it is expected that they be addressed in CCA's Thursday presentation, as well as in the subsequent report, should the study be authorized.

- 1. Water Management Policy and future land development judgement is likely to utilize this study. I am concerned therefore that it is proposed as providing only a "preliminary estimation". State limitations of anticipated study results, as well as specific recommendations for a more reliable product.*
- 2. Only existing data will be utilized, without any additional pump testing or source tracing. I am concerned therefore that error will be introduced into resulting safe yield numbers if RH-Wells, or other Star Valley wells, are receiving groundwater from other than the proposed study area. In other words, state how we will know from this study whether a particular well site/depth receives groundwater from the 30-square mile surface watershed recharge area, beyond from the Rim's Coconino Aquifer leakage, from a combination, or etc.*
- 3. It is understood that the goal is to provide conservative results, ie, present a safe yield that shows less recharge than what is actually expected. Generally I agree with that approach, however, the time may be right to instead pursue the most accurate results possible. I am concerned that without tracing different aquifer depths and well locations, back to their unique precipitation source, that intended normal conservatism could be erroneous, and in severe cases could actually over-state safe yield. An example scenario might be where only the 30-SM watershed is assumed to contribute to new Well 'A', and any outside contributions are ignored, in order to be conservative. However, without that outside source, might surrounding existing wells be shown as more negatively impacted by Well 'A' pumping? Or without that outside source, might there be less actual recharge than preliminarily estimated?*

Thanks for considering these thoughts. I have faith in the Consultants technical abilities. I for one just don't want to create a literary document to be batted around in a political arena. I instead prefer a science-based document that will prove to be reliable for many years.



308 W. Grace Lane ♦ Payson, AZ. 85541 ♦ 928.951.0315
Email: greatcommunity@earthlink.net