

## Bratcher, Mike, EMNRD

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**From:** Randall Hicks <r@rthicksconsult.com>  
**Sent:** Sunday, July 17, 2016 7:35 AM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Cc:** Gonzalez, Luis; mike@rthicksconsult.com  
**Subject:** Clayton Williams - Jenna  
**Attachments:** RemediationPlanJennaFINAL7-15.pdf

Mike and Heather,

While the deep boring investigation confirmed our conclusions regarding the depth of penetration of salt and the depth to groundwater, the groundwater TDS surprised us.

The boring also documented what was observed in the nearby caliche pit - that the Rustler redbeds lie at a depth of about 20 feet below a Quaternary caliche/silt horizon.

Bottom line – the borings were necessary and should have been done earlier in the process.

Finally – I need to thank Mike Bratcher for suggesting that we grab a sample of groundwater. I was sure that the water would meet standards for protection – and I was wrong. Nearby abandoned supply wells permit a conclusion that water acceptable for stock exists somewhere at depth – but not in the uppermost groundwater zone. That groundwater in the uppermost zone is >10,000 mg/L TDS is really not consequential with respect to this remedy – but it is very good data to have and it provided me with a good lesson.

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