

FW: Comment on Proposed INA for the Hualapai Valley Groundwater Basin INA

1 message

Paul Baughman <BaughP@mohave.gov>
To: "sscantlebury@azwater.gov" <sscantlebury@azwater.gov>

Mon, Nov 14, 2022 at 9:27 A

Please update my comment to reflect the \$200,000,000 cost instead of the \$200,000 cost noted below. I left off 3 zeros.

From: Paul Baughman
Sent: Monday, November 14, 2022 9:21 AM
To: sscantlebury@azwater.gov
Subject: Comment on Proposed INA for the Hualapai Valley Groundwater Basin INA

Sharon Scantlebury,

Please see below my comments on the proposed Irrigation Non-expansion Area for the Hualapai Valley Groundwater Basin.

I would like to express my support for the establishment of an Irrigation Non-Expansion Area for the Hualapai Valley Groundwater basin. The legal criteria needed to establish an INA has been met based on the best available information showing existing usage within the basin will cause a drop in the groundwater below the 1200 foot level. This is based on both aerial surveys and ground based verification methods providing input data that when combined with institutional knowledge around industry standards for crop type and existing level of crop maturity creates groundwater inputs and resulting model outputs that show a 1200 foot ground water level within the 100 year model period.

It is clear that there is no viable way to provide for recharge within the basin to offset pumping as is required in an Active Management Area. If Colorado River Water rights were available they would cost much more to acquire than is reasonable to expect the existing municipal water users to be able to expend in the form of increased water rates as an acceptable percentage of their annual average income for this area. This includes approximately \$200,000 to construct a conveyance system and treatment plant with several pump stations and PRVs needed due to the two ridge lines and elevation changes between the Colorado River and the Hualapai Basin. Various areas where recharge of stormwater has been studied show the immense cost involved in the construction of basins and drywells needed to penetrate over 140 feet of compacted clay. Since Stormwater recharge is not a legally recognized form of legally adding creditable water to the aquifer to offset pumping, there is no viable option to establish a working AMA under existing conditions. Since none of this infrastructure could be put into place for many years, even if money were not a constraining factor, there would be no legal right to pump groundwater for Municipal use from the Hualapai basin in the interim.

There has been written (letter with maps) and limited verbal (phone) outreach to the following entities based on ADWR records to request they contact the County to work with us to establish monitoring equipment that would assist in verifying or improving the accuracy of the existing groundwater model that currently predicts a drop in the groundwater level to the 1200 foot depth. I have attached the word document without the maps included in the letter we sent to provide reference for the timing and content of the outreach performed to acquire information in good faith.

| REGISTRY_ID | OWNER_NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | ZIP | ZIP4 | RGR_PUMP_D | WELLTYPE | WELL_TYPE_ | DLIC_NUM | APPROVED | INSTALLED | WELL_DEPTH | WATER_LEVE | CASING_DEP | CASING_DIA | CASING_TYP |
|-------------|--|--------------------------------|----------|-----------|-------|-------|------|------------|---------------|------------|----------|------------|------------|------------|------------|------------|------------|---------------------------------------|
| 200151 | CITY OF KINGMAN | 3700 E ANDY DEVINE AVE | | KINGMAN | AZ | 86401 | | NO | ENV - MONITOR | MONITOR | 749 | 9/9/2003 | 12/22/2003 | 465 | 410 | 465 | 5 | STEEL - PERFORATED OR SLOTTED CASING |
| 205640 | JAMES BOONE | | | LAS VEGAS | NV | 89141 | | NO | EXEMPT | EXEMPT | 400 | 11/8/2004 | 4/5/2005 | 713 | 550 | 697 | 7 | STEEL - PERFORATED OR SLOTTED CASING |
| 223893 | RED LAKE VENTURES, LLC | 157 CHURCH STREET, FL 20 | | NEW HAVEN | CT | 6510 | | NO | NON-EXEMPT | NON-EXEMPT | 658 | 9/5/2014 | <Null> | 570 | 0 | 40 | 24 | OTHER - BLACK STEEL - IRON - SEAMLESS |
| 224458 | RED LAKE VENTURES, LLC | 157 CHURCH STREET, FL 20 | | NEW HAVEN | CT | 6510 | 2104 | NO | NON-EXEMPT | NON-EXEMPT | 658 | 3/4/2015 | <Null> | 520 | 0 | 40 | 24 | OTHER - BLACK STEEL - IRON - SEAMLESS |
| 525378 | LEONARD HAFLEY HAFLEY FAMILY LIMITED PARTNERSHIP | PO BOX 4970 HB | | KINGMAN | AZ | 86412 | 4970 | NO | NON-EXEMPT | NON-EXEMPT | 6 | 7/20/1989 | 10/5/1990 | 2300 | 425 | 215 | 9 | STEEL - PERFORATED OR SLOTTED CASING |
| 572015 | CITY OF KINGMAN | 3700 E ANDY DEVINE AVE | | KINGMAN | AZ | 86401 | | NO | ENV - MONITOR | MONITOR | 611 | 10/20/1998 | 2/16/1999 | 650 | 400 | 480 | 4 | PLASTIC OR PVC |
| 606421 | NAZAG, LLC | 141 S. MCCORMICK ST., STE. 205 | | PRESCOTT | AZ | 86303 | | NO | NON-EXEMPT | NON-EXEMPT | 0 | <Null> | 1/1/1973 | 1000 | 0 | 1000 | 20 | STEEL - PERFORATED OR SLOTTED CASING |
| 604195 | H ROBERT GROUNDS | P.O. BOX 4118 | | KINGMAN | AZ | 86402 | | NO | NON-EXEMPT | NON-EXEMPT | 0 | <Null> | 9/1/1974 | 850 | 520 | 850 | 18 | NO CASING CODE LISTED |
| 604196 | H ROBERT GROUNDS | P O BOX 4118 | | KINGMAN | AZ | 86402 | | NO | NON-EXEMPT | NON-EXEMPT | 0 | <Null> | 10/4/1974 | 690 | 520 | 690 | 8 | STEEL - PERFORATED OR SLOTTED CASING |
| 596990 | TYLER J. REZZETTI | | | KINGMAN | AZ | 86409 | | NO | EXEMPT | EXEMPT | 111 | 2/4/2003 | 1/5/2004 | 620 | 520 | 620 | 5 | STEEL - PERFORATED OR SLOTTED CASING |
| 612667 | KINGMAN, CITY OF, | 310 N 4TH ST | | KINGMAN | AZ | 86401 | | YES | NON-EXEMPT | NON-EXEMPT | 150 | <Null> | 3/28/1968 | 1015 | 663 | 1015 | 14 | STEEL - PERFORATED OR SLOTTED CASING |
| 624990 | RB RANCH DEVELOPMENT | P.O. BOX 739 | | EMPIRE | CA | 95319 | 739 | NO | NON-EXEMPT | NON-EXEMPT | 150 | 9/25/1972 | 2/2/1973 | 1100 | 515 | 1100 | 16 | STEEL - PERFORATED OR SLOTTED CASING |
| 903521 | PEACOCK NUTS, LLC. | 1555 Baldwin Rd | | Hughson | CA | 95326 | | NO | NON-EXEMPT | NON-EXEMPT | 7 | 11/4/2005 | 1/3/2006 | 1490 | 620 | 1490 | 18 | STEEL - PERFORATED OR SLOTTED CASING |
| 925376 | PEACOCK NUTS, LLC | 1555 BALDWIN ROAD | | HUGHSON | CA | 95326 | | NO | NON-EXEMPT | NON-EXEMPT | 889 | 1/7/2021 | <Null> | 1465 | 691 | 1460 | 18 | STEEL - PERFORATED OR SLOTTED CASING |

None of these entities responded to our request for dialog and additional information on the expansion of agricultural production over the last 2 or 3 years.

By establishing the INA, ADWR will enable the County to acquire the pumping data which will include the water pumped for the expansion of the agricultural areas over the last 2 or 3 years. This will ensure that ground water predictions reflect the best information.


In summary, it has been shown based on the best available information that agriculture that currently exists will drop the groundwater level to 1200 feet below ground surface and that an AMA is not feasible. Therefore, ground water must legally be preserved for existing farms, through the establishment of an INA, by stopping the expansion of existing or new farmed areas in the Hualapai Basin.


Thank you for your consideration of this matter.

Paul Baughman, PE, CFM
District Engineer/Acting Engineering Division Manager
Mohave County Flood Control District
Mohave County Environmental Quality Division
PO Box 7000

8 attachments

 Well monitoring Parcel 333-43-059 inquiry.doc
522K

 Well monitoring Parcel 333-43-040 inquiry.doc
521K

 Well monitoring Parcel 333-11-018 and 025 inquiry.doc
523K

 Well monitoring Parcel 333-11-016 inquiry.doc
522K

 Well monitoring Parcel 333-11-008 inquiry.doc
523K

 Well monitoring Parcel 333-11-004 inquiry.doc
523K

 Well monitoring Parcel 313-75-047 inquiry.doc
522K

 Well monitoring Parcel 313-02-032 inquiry.doc
523K



MOHAVE COUNTY DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 25, 2022

Peacock Nuts, LLC
1555 Baldwin Road
Hughson, CA 95326

Peacock Nuts, LLC,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified 2 wells for which you are listed as the owner. If you are willing to discuss the possibility of equipping these wells with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well sites we would like to discuss equipping are located on parcel number 313-02-032.

Latitude # 1 35.275306

Latitude # 2 35.275606

Longitude # 1 -113.921861

Longitude # 2 -113.906086

General Location is the southwest corner of East Grossman Road and N Charles Drive.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925

Enclosure: Exhibits 1



MOHAVE COUNTY DEVELOPMENT SERVICES

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Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 25, 2022

Nazag, LLC
141 S. McCormick St.
Suite 205
Prescott, AZ 86303

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified a well for which you are listed as the owner. If you are willing to discuss the possibility of equipping this well with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well site we would like to discuss equipping is location on parcel number 313-75-047.

Latitude 35.347972

Longitude -113.921722

General Location is the southeast corner of the intersection by N George Dr and East Calle De Leon.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925



MOHAVE COUNTY DEVELOPMENT SERVICES

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Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 25, 2022

Harry Robert Grounds
P O Box 4118
Kingman, AZ 86402

Dear Mr. Harry Robert Grounds,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified 2 wells for which you are listed as the owner. If you are willing to discuss the possibility of equipping these wells with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well sites we would like to discuss equipping are located on parcel number 333-11-004.

Latitude # 1 35.424278

Latitude # 2 35.424528

Longitude # 1 -113.901107

Longitude # 2 -113.891944

General Location is the southeast corner of East California Drive and N Mary Ellen Road.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925

Enclosure: Exhibits 1



MOHAVE COUNTY DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 25, 2022

RB Ranch Development
P O Box 739
Empire, CA 95319

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified a well for which you are listed as the owner. If you are willing to discuss the possibility of equipping this well with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well site we would like to discuss equipping is location on parcel number 333-11-008.

Latitude 35.427583

Longitude -113.887083

General Location is the west boundary of the Valle Vista Subdivision at the southwest corner of E California Drive and North Sharon Road

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925



MOHAVE COUNTY DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 24, 2022

Leonard Hafley
Hafley Family Limited Partnership
P O Box 4970 HB
Kingman, AZ 86412

Mr. Hafley,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified a well for which you are listed as the owner. If you are willing to discuss the possibility of equipping this well with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well site we would like to discuss equipping is location on parcel number 333-43-016.

Latitude 35.471167

Longitude -113.921556

General Location is the northwest corner of the intersection by N Mary Ellen Road and East Calle O Campo.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925



MOHAVE COUNTY DEVELOPMENT SERVICES

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Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 22, 2022

Garth Steed
Hualapai Valley Farms, LLC
12970 N Stockton Hill Road
Kingman, AZ 86409-8493

Dear Mr. Garth Steed,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified 2 wells for which you are listed as the owner. If you are willing to discuss the possibility of equipping these wells with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well sites we would like to discuss equipping are located on parcel numbers 333-11-018 and 333-11-025.

| | | | | | |
|-----------|-----|-------------|-----------|-----|-------------|
| Latitude | # 1 | 35.4355 | Latitude | # 2 | 35.421639 |
| Longitude | # 1 | -113.912889 | Longitude | # 2 | -113.905222 |

General Location is two miles west of the northwest corner of the Valle Vista Subdivision by N Mary Ellen Road and East California Drive.

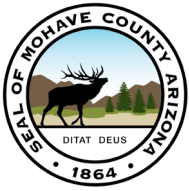
Thank you for your consideration of this request.

Best Regards,

A handwritten signature in cursive script that reads "Paul Baughman".

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925

Enclosure: Exhibits 1 and 2



MOHAVE COUNTY DEVELOPMENT SERVICES

P. O. Box 7000 Kingman, Arizona 86402-7000 3250 E. Kino Ave, Kingman www.mohave.gov Telephone (928) 757-0903 FAX (928) 757-3577

Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 17, 2022

James Boone
[REDACTED]
Las Vegas, NV 89141

Mr. James Boone,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified a well for which you are listed as the owner. If you are willing to discuss the possibility of equipping this well with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well site we would like to discuss equipping is location on parcel number 333-43-040.

Latitude 35.428472

Longitude -113.869667

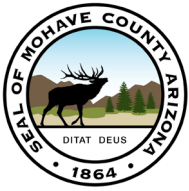
General Location is the northwest corner of the Valle Vista Subdivision by N Sharon Road and East California Drive.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925



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Timothy M. Walsh, Jr., P.E.
Department Director

Sam Elters, P.E.
County Manager/County Engineer

Feb 24, 2022

Tyler J. Rezzetti

[REDACTED]
Kingman, AZ 86409

Mr. Rezzetti,

The Mohave County Flood Control District has partnered with the United States Geologic Survey to create a ground water model for the Hualapai Basin to predict groundwater levels over the next 100 years. We are now looking to identify additional wells that can be equipped with monitoring equipment to improve this model's predictions and accuracy. We have identified a well for which you are listed as the owner. If you are willing to discuss the possibility of equipping this well with USGS monitoring equipment to help us improve the accuracy of our groundwater models, I would ask that you email me at BaughP@Mohave.gov and I will then reach out to you to discuss further.

The well site we would like to discuss equipping is location on parcel number 333-43-059.

Latitude 35.431639

Longitude -113.883139

General Location is the southwest corner of the intersection by N Jemez Road and East Nuttall Dr.

Thank you for your consideration of this request.

Best Regards,

Paul Baughman

Paul Baughman, PE, CFM
District Engineer
Mohave County Flood Control District
P O Box 7000
3250 E Kino Avenue
Kingman, AZ 86402
928-757-0925