ARIZONA DEPARTMENT OF WATER RESOURCES BEFORE THE DIRECTOR

IN RE: SUBSEQUENT IRRIGATION NON-EXPANSION AREA: HUALAPAI VALLEY GROUNDWATER BASIN, MOHAVE COUNTY

FINDINGS, DECISION AND ORDER

Pursuant to Arizona Revised Statute (A.R.S.) § 45-436, the Director of the Arizona Department of Water Resources ("Director") issues findings and his decision to designate the Hualapai Valley Groundwater Basin, in Mohave County ("Basin"), Arizona as a subsequent Irrigation Non-Expansion Area ("INA") on the grounds set forth herein.

BACKGROUND

I. Director's Order Initiating Designation Procedures

On June 23, 2022, the Mohave County Board of Supervisors requested that the Director take "whatever actions available and necessary to designate the Hualapai Valley Groundwater Basin as a subsequent INA." The Board of Supervisors cited updated United States Geological Survey ("USGS") modeling and ongoing and extreme drought conditions as part of the basis for the request.

By letter dated June 24, 2022, the Director indicated that the Arizona Department of Water Resources ("ADWR" or "Department") would review updated modeling and other relevant information, including current and projected drought conditions, and receive public comments on whether to initiate designation procedures.

On September 20, 2022, ADWR held an informal public meeting to present hydrologic and regulatory information, accept public comments, and answer questions regarding the possible initiation of procedures to designate the Basin as a subsequent INA. Comments and questions were accepted until 5:00PM on September 30, 2022. Based upon hydrologic information and public

comments received, the Director issued an Order to Initiate Procedures ("Initiation Order") and an Order for a Hearing on October 12, 2022.

II. Public Hearing and Comment Period

The Department held a public hearing in Kingman, Arizona on November 12, 2022. At the hearing, the Department presented factual data then in the Department's possession related to groundwater supply, demand, and hydrologic conditions in the Basin. Specifically, the Department presented information derived from the 2021 USGS Hualapai Valley groundwater model, field verification survey information from the USGS for revised agricultural demand, and water level measurements that the Department collected from monitoring wells in the Basin. The Department also received oral comments at the public hearing and accepted written comments through the close of the hearing record.

The hearing record closed on November 18, 2022. The Director has given consideration to all comments submitted, including those made by political subdivisions of Mohave County. Where particular comments are relevant to a specific Finding made by the Director, the comments are discussed in the "Findings" section below.

III. Determination on Whether to Designate an INA

As provided in A.R.S. § 45-432(A), the Director may designate a groundwater sub-basin as an INA if the Director determines that both of the following apply:

- 1. There is insufficient groundwater to provide a reasonably safe supply for irrigation of the cultivated lands in the area at the current rates of withdrawal; and
- 2. The establishment of an active management area ("AMA") pursuant to A.R.S. § 45-412 is not necessary.

With respect to whether the establishment of an AMA is necessary, A.R.S. § 45-412 provides that the Director may designate an area as an AMA if the Director determines that any of

the following exists: (1) active management practices are necessary to preserve the existing supply of groundwater for future needs; (2) land subsidence or fissuring is endangering property or potential groundwater storage capacity; or (3) use of groundwater is resulting in actual or threatened water quality degradation.

FINDINGS

- 1. The proposed irrigation non-expansion area encompasses the entire Hualapai Valley Groundwater Basin. The Basin is the surface watershed of the Hualapai Wash, excluding the watershed of Truxton Wash upstream of a boundary formed by the ridge line of the Music and Peacock Mountains.
- 2. Surface water flows in the Basin occur rarely and only after heavy rains in washes and arroyos. The only dependable source of water in the Basin is groundwater, which is used for agricultural, domestic, and municipal water supply.
- 3. The main groundwater-bearing unit in the Basin is the alluvium, which consists of various deposits of clay, silt, sand, and gravel. The thickness of the deposits ranges from less than 100 feet at the edges of the Basin to more than 10,000 feet in the Red Lake Playa area.
- 4. At the November 12th hearing, 52 people made oral comments, and the Department received 48 written comments regarding the proposed INA during the public comment period. The comments received expressed a mix of support and opposition to the proposed INA.
 - 5. Senator Sonny Borrelli provided oral comments in support of the INA.
- 6. Hildy Angius, Mohave County Board of Supervisors, submitted written comments in support of the INA on September 22, 2022 during the informal comment period.
- 7. Jean Bishop, Mohave County Board of Supervisors, submitted both oral and written comments in support of the INA. Supervisor Bishop also submitted written comments in support of the INA on September 20, 2022 during the informal comment period.

- 8. Travis Lingenfelter, Mohave County Board of Supervisors, provided oral comments during the public hearing in support of the INA. Supervisor Lingenfelter also submitted written comments in support of the INA on September 30, 2022 during the informal comment period.
- 9. Marion Ward, Kingman City Councilwoman, provided oral comments in support of the INA.
- 10. Jamie Stehly, Kingman City Councilwoman, provided oral comments in support of the INA.
- 11. Mayor Ken Watkins, City of Kingman, submitted oral comments in support of the designation of the INA. Mayor Watkins, on behalf of Kingman Common Council, also submitted written comments in support of the INA on September 6, 2022 during the informal comment period.
- 12. City Manager Ron Foggin, City of Kingman, submitted oral comments in support of the INA.
- 13. Large agricultural users submitted both oral and written comments opposing the designation of the INA.
- 14. Peacock Nuts, LLC, a large agricultural user, submitted groundwater withdrawal data for its operations, as well as groundwater withdrawal data for MOGA, Oasis Organics, and Aileron Orchards.
- 15. However, the Department was not able to verify or confirm that the withdrawal data was obtained with an approved measuring device and/or an approved measuring method as set forth in Arizona Administrative Code ("A.A.C.") R12-15-903.
- 16. Even taking the reported reduction in water use by Peacock Nuts, LLC as the actual demand the rate of pumping would still exceed the inflows in the Basin.
- 17. Mohave County Development Services submitted documentation of written requests dated February 25, 2022 to area agricultural users, including Peacock Nuts, LLC, looking to establish monitoring equipment on wells owned by the users to improve the USGS' groundwater

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AFY.

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Natural discharge accounts for approximately 4,300 AFY.

- 30. Annual outflow from the Basin totals approximately 44,000 AFY, as described in Findings 10, 11, 13, and 14 above.
 - 31. Outflows currently exceed inflows by approximately 34,000 AFY.
- 32. If pumping continues at the current rates of withdrawals, the depth to groundwater will increase.
- 33. If pumping continues at the current rates of withdrawals, approximately 1 in 20 wells will no longer draw water after 100 years.
- 34. The steep declines in available groundwater, the very limited annual recharge available in the Basin, and the extensive irrigated acreage and corresponding groundwater pumping demonstrate that there is insufficient groundwater to provide a reasonably safe supply for irrigation of the cultivated lands in the Basin.
- 35. At this time, active management practices are not necessary to preserve the existing supply of groundwater for future needs.
 - 36. There is no evidence of land subsidence and fissuring in the Basin.
- 37. There is no evidence that groundwater pumping is inducing adverse water quality conditions in the Basin.
 - 38. The establishment of an AMA pursuant to A.R.S. § 45-412 is not necessary.

DIRECTOR'S DECISION

In consideration of the Findings set forth above, the Director has determined that the Hualapai Valley Groundwater Basin, as described in Findings #1 above and depicted in the map attached hereto as Exhibit A, meets the criteria for designation of a subsequent INA set forth in A.R.S. § 45-432(A). As a result, the Hualapai Valley Groundwater Basin SHALL be designated as an INA.

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ORDER

IT IS HEREBY ORDERED:

- 1. That a notice of the above Findings and Decision shall be published once a week for two consecutive weeks in a newspaper of general circulation in Mohave County.
- 2. These Findings, Decision, and Order shall become effective upon the second publication described in Order No. 1 above.
- 3. The Director shall file a true copy of a map identifying the lands included in the INA with the office of the Mohave County Recorder.
- 4. That the prohibition on the irrigation of new acres pursuant to A.R.S. § 45-434 and the Initiation Order will remain in effect permanently.
- 5. Pursuant to A.R.S. § 45-437(C), any person who withdraws groundwater from a non-exempt well for irrigation use and each person withdrawing more than ten acre-feet of groundwater per year from a non-exempt well for non-irrigation use within the boundaries of the INA shall use a water measuring method and device approved by the Director. An approved measuring device must be installed by March 31, 2023. A list of approved measuring methods and devices can be found in A.A.C R12-15-903.
- 6. Each person withdrawing groundwater from a non-exempt well shall file an annual water withdrawal and use report on a form prescribed by the Director no later than March 31 of each calendar year. The first annual report for this INA shall be filed on or before March 31, 2024.

This Decision is subject to rehearing and review as provided in A.R.S. § 45-436(B).

GIVEN under my hand this 19th day of December 2022.

Thomas Buschatzke

Director

EXHIBIT A

