KINROSS Round Mountain

Round Mountain Gold Corporation
*A Kinross company*

1 Smoky Valley Mine Road, PO Box 480
Round Mountain, Nevada, USA 89045

phone: (775) 377-2366
fax: (775) 377-3240

January 31, 2022

Mr. Adam Sullivan, P.E., (State Engineer)
Division of Water Resources
901 S. Stewart Street Suite 2002
Carson City, Nevada 89701

Re: **2021 Annual Report - Round Mountain Gold Corporation**

Dear Mr. Sullivan,

Please find the enclosed 2020 Annual Report for Round Mountain Gold Corporation (RMGC). This report describes groundwater conditions and overall water management associated with mining, milling and ancillary activities in Nye County, Nevada as required by the terms of our current water rights permits and our approved Monitoring Plan. RMGC operates in the Big Smoky Valley-North hydrographic basin (Basin No. 137b).

On December 20, 2013 Order No. 1233 RMGC was issued by the State Engineer, which adopted rules allowing for multiple points of diversion for water use at the Round Mountain and Gold Hill operations. This order was followed by the issuance of Permit No. 83333 on March 5, 2014. RMGC permit terms require specific monitoring and reporting including the submission of an Annual Report each year as described herein.

Please do not hesitate to contact us should you have any questions.

Sincerely,
*Round Mountain Gold Corporation*

Jay Dixon, P.E., WRS
Chief Hydrologist

Cc:
Perry Wickham, Field Office Manager – Tonopah FO (BLM Battle Mountain District)

**Round Mountain Gold Corporation**
**2021 Annual Report**
January 31, 2022

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# 1.0 Background

Pursuant to requirements in the approved Monitoring Plan for Round Mountain Gold Corporation (RMGC) / KG Mining (Round Mountain) Inc., Water Right Permit No. 83333 and Order 1233 we are pleased to present the 2021 Annual Report. This report describes dewatering activities, groundwater conditions and overall water management associated with the Round Mountain and Gold Hill mining projects in the Big Smoky Valley hydrographic basin (Basin No. 137b).

## 1.1 Dewatering System Overview

RMGC operates two large-scale open-pit mining operations and associated ancillary facilities in the Big Smoky Valley, Hydrographic Basin 137b. RMGC / KGM, Inc. (hereafter referred to as 'RMGC') maintains water rights associated with these activities. The Round Mountain mine has been in continuous operation since 1976. In order to ensure safe mining activities and highwall stability within the mine, the Round Mountain facility began dewatering in 1990, which has created drawdown surrounding the pit area. Starting in late 2011 groundwater production began for the Gold Hill open pit operation and has been in full production ever since. The Gold Hill mine is located approximately 3 miles north of the Round Mountain operation (see Plate 3). As shown in Figure 1 below, since the early 1990s, average groundwater pumping from dewatering systems at Round Mountain and Gold Hill (combined) had gradually increased to just over 5,000 gpm by 2017. However, as of 2021, the combined (average annual) pumping has increased 70% since 2017 (pre-Phase W expansion) and 43% since 2018. This marked increase in dewatering production is a direct result of the Phase W expansion initiated in 2018, which includes a push back into the west alluvial highwall supported by a corresponding increase in alluvial pumping as described throughout this report. The majority of RMGC's permitted beneficial use of water includes groundwater diversions for mining and milling as part of active dewatering systems in and around the Round Mountain and Gold Hill open pit mines.

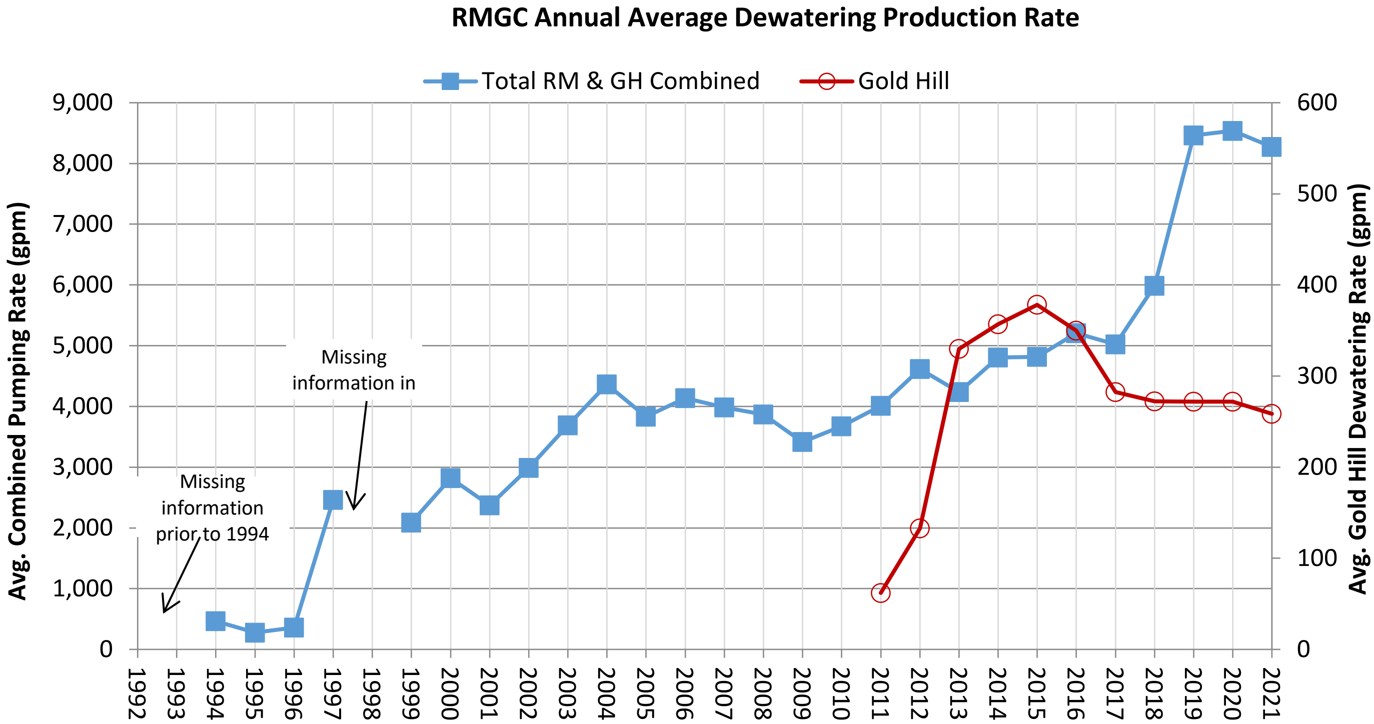



***Figure 1.*** *Average annual dewatering pumping rates from the Round Mountain and Gold Hill open pit mines. Note that Round Mountain dewatering began in 1990 (data only available after 1994) and Gold Hill pumping began in 2011.*

## 1.2 Ancillary Wells Overview

RMGC maintains four (4) active ancillary wells that are off site and west of the Round Mountain Mine. Three of the ancillary wells are located along the Jett Canyon Road about 2.5 miles west of the Mine and are known collectively as the 'Valley Wells' (East Well 1, East Well 2 and West Well). Groundwater from the Valley Wells is conveyed via pipeline to the Round Mountain site and used to support, 1) potable water supply tanks; or 2) directly to the Lower Fire Pond where the water can be commingled with water from the dewatering system (for process make up water). The existing water rights for these three (Valley) wells are included in the mine's base rights because their historical (primary) use was for mining, milling and domestic purposes. As the pit dewatering system expanded, the primary use for the Valley Wells shifted to nearly exclusive domestic (potable) purposes at the mine. The Valley Wells are still used for mining and milling (make-up water), but on a very limited basis during the rare occasions when process and/or construction demands are high and dewatering supply is low due to temporary maintenance or mining activities.

The fourth ancillary well is used by RMGC to operate a golf course located in the Town of Round Mountain – Hadley Subdivision (see Plate 2). The golf course is watered using irrigation water rights owned by the RMGC that were originally appropriated for agricultural purposes on the ranch that existed prior to its acquisition (by the Mine), which resulted in the creation of Hadley.

# 2.0 Super Permit Summary

In 2014, RMGC began operating under a consolidated water rights permitting framework known as a Block Well Spacing Permit, or 'Super Permit.' The terms and statutory guidelines of this Super Permit addressed by State Engineer in Order 1233. The amount of water permitted for mining (including reclamation), milling and domestic purposes under permit 83333 is 53 cubic feet per second (cfs) not to exceed a total combined duty of 14,767.5 acre-feet per year for consumptive purposes. No additional diversion or duty was requested or provided by Permit #83333. Under this permit and as required by Order 1233, RMGC operated multiple points of diversion in 2021 under a single temporary permit (90436T) with a diversion rate of up to 30 cfs and 15,000 acre-ft of pumping for mining and milling purposes and a total combined duty (for consumptive use) not to exceed 14,767.5 acre-ft for the year.

# 3.0 Groundwater Diversion Summary

A summary of groundwater diverted in 2021 for each manner of use by operation is included in Table 1 below. Tables 2 through 4 include a detailed month-by-month breakdown of observed dewatering and ancillary pumping with corresponding permits for each point of diversion in the Round Mountain and Gold Hill operations for 2021. Average and maximum monthly diversion rates from each point of diversion are included in Tables 5 through 8.

**Table 1 – 2021 RMGC Groundwater Pumping Summary**

| Pumping Type | Operation | Total Acre-Ft | Max. Diversion Rate (cfs) |
|---|---|---|---|
| Mining and Milling & Domestic | Round Mountain | 12,972 | 18.54 |
| Mining and Milling & Domestic | Gold Hill | 417 | 0.95 |
| Total Combined M&M&D Pumping: | | 13,389 | 19.48 |
| Irrigation | Golf Course | 442 | 1.17 |

## 3.1 2021 Mining and Milling Production

In 2021 RMGC pumped 12,972 acre-ft of underground water for mining, milling and domestic purposes at Round Mountain and 417 acre-ft of water at Gold Hill, for a combined total of 13,389 acre-ft of groundwater pumped. The Round Mountain mine pumped 12,914 acre-ft of groundwater for dewatering with 11,370 acre-ft produced from the alluvial well field just west of the main pit, and 1,544 acre-ft pumped from the in-pit dewatering wells, sumps and gravity drains. During the year there were 71 active points of diversion in the alluvial well field (69 wells and 2 sumps in the west alluvial highwall) and 31 active points of diversion included within the in-pit dewatering system, which included 28 dewatering wells and 3 sumps. The Round Mountain operation also includes 3 additional points of diversion (Valley Wells) that are not associated with the dewatering system and used exclusively for limited mine make up water and potable water supply. At Gold Hill there were 3 active points of diversion in 2021. The two principal-producing wells at Gold Hill were constructed west of the pit prior to 2012 (with one remaining active currently) and two wells (constructed in 2015) along the southeastern (external) edge of the pit. In all, for 2021, there were 108 active points of diversion (at various times) used for mining, milling and domestic purposes at the (combined) operation.

### 3.2 2021 Ancillary Production

In 2021 RMGC pumped 58 acre-ft of groundwater from the 3 Valley Wells (at Round Mountain) with approximately 26 acre-feet used for domestic (potable) supply and 31 acre-ft used for mining and milling (make-up) water. Groundwater production from the 'ICT Ranch Well' totaled 441.5 acre-ft for 2021. The ICT Ranch Well is used exclusively for recreational purposes in support of golf course irrigation in the Hadley Subdivision.

**Table 2 – 2021 Round Mountain Dewatering Annual Pumping Volumes**

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping (acre-feet) ALLUVIAL (EX-PIT) WELL FIELD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| Alluvial Well Field (acre-ft) | | | | | | | | | | | | | | |
| DW-39 | 53365 | 6.9 | 7.6 | 14.5 | 6.8 | 6.8 | 7.7 | 6.4 | 5.0 | 2.4 | 2.5 | 3.0 | 6.0 | 75.7 |
| DW-51 | 76600 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-52 | 76601 | 0.0 | 0.0 | 0.0 | 2.7 | 6.6 | 11.7 | 6.3 | 7.2 | 5.3 | 4.4 | 4.7 | 4.5 | 53.3 |
| DW-53 | 76602 | 9.2 | 15.3 | 18.5 | 14.9 | 14.7 | 16.7 | 12.6 | 17.5 | 12.9 | 15.1 | 17.8 | 14.8 | 180.2 |
| DW-61 | 44297 | 19.4 | 22.4 | 22.5 | 1.4 | 19.7 | 26.0 | 20.4 | 25.5 | 23.3 | 20.3 | 22.8 | 19.4 | 243.0 |
| DW-70 | 82949 | 25.7 | 20.0 | 22.5 | 17.5 | 18.2 | 21.9 | 15.1 | 1.8 | 16.3 | 17.9 | 21.9 | 17.5 | 216.4 |
| DW-72 | 83333 | 81.4 | 83.1 | 104.7 | 83.1 | 83.8 | 101.0 | 79.0 | 106.8 | 81.7 | 86.4 | 102.0 | 87.5 | 1,080.4 |
| DW-83 | 83333 | 30.4 | 32.8 | 36.7 | 28.6 | 29.6 | 35.4 | 30.6 | 35.4 | 27.8 | 30.9 | 28.1 | 31.1 | 377.2 |
| DW-86 | 83333 | 0.0 | 0.0 | 2.5 | 7.6 | 7.4 | 8.2 | 6.1 | 7.7 | 4.7 | 5.3 | 5.2 | 5.0 | 59.7 |
| DW-87 | 83333 | 60.9 | 70.6 | 76.2 | 63.8 | 62.3 | 76.8 | 63.9 | 77.9 | 64.1 | 78.0 | 82.1 | 73.8 | 850.4 |
| DW-88 | 83333 | 102.3 | 83.5 | 102.3 | 86.7 | 87.8 | 102.3 | 90.3 | 106.8 | 78.8 | 94.5 | 106.2 | 92.7 | 1,134.3 |
| DWCA-1 | 83333 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 2.2 |
| DWCA-2 | 83333 | 0.7 | 0.6 | 0.8 | 0.7 | 1.3 | 0.5 | 0.4 | 0.3 | 0.4 | 0.1 | 0.0 | 0.0 | 5.8 |
| DWCA-3 | 83333 | 1.2 | 3.1 | 3.8 | 2.0 | 0.7 | 0.6 | 0.2 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 12.5 |
| DWCB-1 | 83333 | 0.0 | 0.0 | 0.0 | 3.2 | 2.1 | 2.4 | 1.6 | 1.5 | 1.3 | 3.8 | 4.2 | 2.7 | 22.8 |
| DWCB-2 | 83333 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.0 | 0.0 | 0.1 | 2.0 |
| DWNW-21-01 | 83333 | 0.0 | 0.7 | 4.1 | 6.9 | 6.7 | 6.5 | 6.3 | 7.3 | 5.7 | 5.4 | 7.2 | 4.9 | 61.6 |
| DWW-1 | 83333 | 27.2 | 26.8 | 34.6 | 23.3 | 22.7 | 24.4 | 20.2 | 29.5 | 22.8 | 22.2 | 26.0 | 7.1 | 286.6 |
| DWW-2 | 83333 | 7.9 | 8.6 | 9.9 | 11.1 | 6.3 | 12.3 | 9.6 | 14.3 | 13.9 | 12.3 | 17.8 | 16.7 | 140.7 |
| DWW-3 | 83333 | 53.2 | 59.6 | 65.3 | 54.0 | 53.6 | 62.6 | 55.3 | 64.1 | 47.0 | 18.5 | 59.7 | 50.9 | 643.8 |
| DWW-4 | 83333 | 93.5 | 81.7 | 111.6 | 92.5 | 85.9 | 108.1 | 86.8 | 112.5 | 87.4 | 86.4 | 109.2 | 93.7 | 1,149.3 |
| DWW-5 | 83333 | 68.3 | 74.2 | 83.6 | 65.7 | 68.5 | 82.2 | 71.4 | 80.9 | 65.7 | 61.7 | 79.2 | 70.3 | 871.6 |
| DWW-6 | 83333 | 14.2 | 16.5 | 20.7 | 18.0 | 16.7 | 21.4 | 16.2 | 21.9 | 17.5 | 17.8 | 21.5 | 18.0 | 220.4 |
| DWW-7 | 83333 | 74.4 | 80.6 | 91.4 | 71.6 | 74.2 | 88.7 | 75.6 | 91.8 | 71.4 | 62.0 | 84.7 | 74.3 | 940.7 |
| DWW-8 | 83333 | 78.4 | 85.0 | 96.5 | 75.6 | 78.6 | 94.2 | 78.9 | 97.4 | 75.2 | 71.9 | 93.5 | 81.8 | 1,007.1 |
| DWW-9 | 83333 | 2.3 | 2.1 | 2.7 | 2.0 | 2.0 | 2.3 | 1.5 | 1.7 | 1.4 | 1.5 | 1.7 | 1.5 | 22.7 |
| DWW-10 | 83333 | 2.3 | 2.6 | 3.1 | 2.2 | 2.1 | 2.0 | 0.0 | 1.2 | 1.3 | 1.6 | 1.7 | 1.4 | 21.6 |
| DWW-11 | 83333 | 1.5 | 2.2 | 2.3 | 2.1 | 1.9 | 1.8 | 0.5 | 2.3 | 1.3 | 1.0 | 0.5 | 0.6 | 18.0 |
| DWW-12 | 83333 | 0.0 | 0.0 | 0.0 | 2.1 | 2.4 | 2.8 | 1.7 | 1.4 | 1.8 | 2.0 | 2.3 | 1.9 | 18.5 |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping (acre-feet)<br>ALLUVIAL (EX-PIT) WELL FIELD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| DWW-13 | 83333 | 0.0 | 0.0 | 6.4 | 6.5 | 12.0 | 4.7 | 6.1 | 6.9 | 5.4 | 6.5 | 7.1 | 3.7 | 65.5 |
| DWW-14 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 6.9 | 5.2 | 6.0 | 4.5 | 5.8 | 6.2 | 5.4 | 44.7 |
| DWW-15 | 83333 | 36.7 | 38.8 | 47.1 | 37.2 | 37.5 | 45.5 | 36.8 | 46.8 | 36.4 | 37.4 | 44.7 | 38.5 | 483.3 |
| DWW-16 | 83333 | 23.5 | 28.8 | 32.4 | 25.0 | 12.6 | 33.5 | 27.6 | 31.0 | 24.4 | 26.5 | 29.6 | 24.1 | 319.2 |
| DWW-17 | 83333 | 25.5 | 29.1 | 31.7 | 23.8 | 25.2 | 30.3 | 26.0 | 30.7 | 23.4 | 24.3 | 29.5 | 23.1 | 322.4 |
| DWW-18 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DWW-19 | 83333 | 21.3 | 21.1 | 25.1 | 19.1 | 16.7 | 24.0 | 17.5 | 21.7 | 32.2 | 31.6 | 42.5 | 28.3 | 300.8 |
| DWW-20 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.7 | 4.1 | 1.4 | 3.9 | 4.1 | 4.1 | 22.8 |
| DWW-21 | 83333 | 0.0 | 1.9 | 0.9 | 2.5 | 4.5 | 4.1 | 3.4 | 2.0 | 2.6 | 2.0 | 4.1 | 2.9 | 30.7 |
| DWW-22 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 1.6 |
| DWW-23 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.8 | 3.0 | 2.0 | 4.8 | 2.2 | 1.9 | 19.3 |
| DWW-24 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 4.0 | 4.3 | 3.8 | 16.5 |
| SDWA-20-01 | 83333 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| SDWA-20-02 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| SDWA-20-03 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| SDWA-20-04 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| SDWA-20-05 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SDWA-20-06 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| SDWA-20-07 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SDWA-20-08 | 83333 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| SDWA-20-09 | 83333 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 1.0 |
| SDWA-20-11 | 83333 | 0.5 | 0.4 | 0.4 | 0.6 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.6 | 5.8 |
| SDWA-20-12 | 83333 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |
| SDWA-20-13 | 83333 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 |
| SDWA-20-14 | 83333 | 0.1 | 0.1 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| SDWA-20-15 | 83333 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| SDWA-20-16 | 83333 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.7 |
| SDWA-20-17 | 83333 | 0.2 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.2 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 4.5 |
| SDWA-20-18 | 83333 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.3 |
| SDWA-20-19 | 83333 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.6 |
| SDWA-20-20 | 83333 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 1.0 |
| SDWA-20-21 | 83333 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping (acre-feet)<br>ALLUVIAL (EX-PIT) WELL FIELD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| SDWA-20-22 | 83333 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| SDWNW-21-01 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SDWNW-21-02 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| SDWNW-21-03 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 1.6 |
| SDWNW-21-04 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.6 |
| SDWNW-21-05 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SDWNW-21-06 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SDWNW-21-07 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Wall Sump (5525) | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Wall Sump (5790) | 83333 | 0.0 | 0.3 | 0.0 | 0.2 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| | | | | | | | | | | | **Alluvial (Ex-Pit) Total =** | | | **11,369.9** |

## Table 2 (continued) – 2021 Round Mountain Dewatering Annual Pumping Volumes

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping (acre-feet) IN-PIT WELL FIELD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| In-Pit Well Field (acre-ft) | | | | | | | | | | | | | | |
| DW-34 | 44297 | 2.0 | 0.9 | 3.1 | 2.1 | 1.8 | 1.6 | 2.1 | 2.4 | 2.7 | 2.0 | 1.5 | 0.0 | 22.2 |
| DW-36R | 12442 | 6.8 | 5.7 | 7.4 | 6.1 | 5.8 | 7.0 | 4.9 | 6.1 | 6.2 | 6.1 | 6.5 | 6.1 | 74.7 |
| DW-49R | 53365 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-55R | 55503 | 11.4 | 10.5 | 13.5 | 11.1 | 10.2 | 9.5 | 9.8 | 11.7 | 11.1 | 10.7 | 13.0 | 10.6 | 133.0 |
| DW-57 | 82950 | 35.5 | 29.0 | 36.3 | 30.6 | 28.0 | 33.6 | 24.3 | 29.1 | 36.5 | 27.8 | 35.3 | 28.2 | 374.0 |
| DW-62 | 83333 | 2.8 | 2.6 | 3.9 | 4.7 | 4.7 | 7.2 | 6.9 | 9.4 | 10.9 | 2.9 | 2.7 | 2.0 | 60.7 |
| DW-65 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-68 | 55501 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-71 | 60875 | 12.6 | 11.5 | 12.7 | 12.3 | 11.7 | 14.3 | 10.4 | 12.7 | 12.0 | 11.6 | 14.8 | 12.2 | 148.7 |
| DW-75 | 83333 | 13.5 | 5.5 | 15.1 | 13.4 | 11.6 | 13.6 | 0.0 | 6.3 | 14.4 | 12.7 | 13.1 | 0.0 | 119.1 |
| DW-76 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| DW-79 | 83333 | 3.6 | 3.3 | 4.3 | 3.5 | 3.4 | 4.1 | 3.3 | 4.0 | 3.6 | 3.4 | 4.7 | 3.7 | 44.9 |
| DW-80 | 83333 | 8.8 | 8.1 | 10.0 | 8.7 | 3.1 | 6.4 | 7.3 | 9.0 | 8.7 | 7.8 | 9.6 | 8.9 | 96.5 |
| DW-81 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 0.4 | 0.5 | 0.4 | 0.5 | 0.7 | 0.5 | 4.2 |
| DW-84 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-85 | 83333 | 10.2 | 6.7 | 10.6 | 10.2 | 9.4 | 9.8 | 5.2 | 9.8 | 8.7 | 8.4 | 9.0 | 7.3 | 105.5 |
| DW-90 | 83333 | 4.1 | 3.9 | 4.7 | 4.2 | 4.1 | 4.9 | 2.9 | 4.1 | 3.9 | 3.9 | 5.0 | 4.1 | 49.9 |
| DW-91 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-92 | 83333 | 8.0 | 5.5 | 0.0 | 6.7 | 5.9 | 8.2 | 6.3 | 7.7 | 7.3 | 6.8 | 8.2 | 6.5 | 77.0 |
| DW-93 | 83333 | 6.4 | 6.4 | 7.1 | 3.7 | 5.5 | 7.1 | 3.4 | 6.4 | 6.4 | 6.3 | 8.0 | 6.5 | 73.3 |
| DW-94 | 83333 | 0.4 | 0.1 | 0.3 | 0.1 | 1.0 | 0.9 | 0.8 | 1.1 | 1.1 | 1.1 | 1.7 | 1.1 | 9.6 |
| DW-94a | 83333 | 2.6 | 3.0 | 3.8 | 3.4 | 3.4 | 4.2 | 2.3 | 3.6 | 3.4 | 3.6 | 4.1 | 3.5 | 41.1 |
| DW-95 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-96 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DW-97 | 83333 | 0.0 | 3.9 | 1.9 | 1.3 | 1.2 | 1.4 | 1.2 | 1.5 | 1.6 | 1.9 | 2.5 | 1.3 | 19.8 |
| FV-DW-3 | 55502 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping (acre-feet) IN-PIT WELL FIELD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| DD-1 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DD-2 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4995 Phase F Sump to Booster | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.7 | 1.2 | 4.6 | 1.1 | 9.7 |
| 5170 Phase F Sump to Booster | 83333 | 3.3 | 3.2 | 1.3 | 2.6 | 3.4 | 7.0 | 2.8 | 6.9 | 3.9 | 0.8 | 0.8 | 0.0 | 35.9 |
| 4747 Phase G Sump | 83333 | 5.3 | 2.1 | 7.8 | 3.1 | 5.8 | 0.6 | 0.0 | 2.1 | 3.6 | 2.3 | 3.2 | 8.0 | 43.9 |
| | | | | | | | | | | | **In-Pit Total =** | | | **1,544.2** |
| | | | | | | | | | | | **Alluvial and In-Pit Total =** | | | **12,914.1** |

**Table 3 – 2021 Gold Hill Dewatering Pumping Volumes**

| Source Name | Base Permit Number | 2021 Gold Hill Monthly Pumping (acre-feet) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | **Totals** |
| GHB-11-1 | 70170<br>70169 | 22.0 | 23.3 | 26.4 | 36.9 | 26.2 | 50.8 | 25.9 | 41.5 | 48.8 | 29.0 | 30.6 | 19.8 | 381.2 |
| GHDW-3 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 8.8 | 7.1 | 3.3 | 5.5 | 5.8 | 2.3 | 33.9 |
| GHDW-4 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 1.8 |
| | | | | | | | | | **Total Gold Hill Dewatering (MM&D) =** | | | | | **416.8 ac-ft** |

## Table 4 – 2021 Ancillary Pumping Volumes (Round Mountain)

| Source Name | Base Permit # | 2021 Monthly Ancillary Pumping (acre-feet) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Totals |
| East Well 1 | 14119<br>26652<br>60875 | 2.4 | 2.6 | 3.2 | 1.9 | 8.9 | 1.8 | 3.9 | 3.2 | 3.3 | 4.2 | 6.6 | 5.0 | 47.0 |
| East Well 2 | 51577<br>51578<br>60876 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| West Well | 12445<br>12768<br>26650<br>60874 | 0.0 | 0.0 | 0.9 | 2.2 | 2.3 | 1.3 | 0.3 | 0.8 | 0.1 | 1.3 | 0.4 | 1.1 | 10.7 |
| | | | | | | | | | | Total Ancillary (MM&D) Pumping = | | | | 57.7 |
| ICT Ranch Well (Golf Course) | 54911<br>54912<br>64181 | 6.1 | 10.8 | 18.1 | 41.9 | 59.8 | 81.0 | 61.3 | 59.6 | 53.9 | 30.4 | 10.5 | 8.0 | 441.5 |

## Table 5 – 2021 Round Mountain Dewatering Pumping Rates

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping Rates (gpm) ALLUVIAL (Ex-Pit) WELL FIELD | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| **Alluvial Well Field (gpm)** | | | | | | | | | | | | | | |
| DW-39 | 55500 | 58 | 56 | 96 | 57 | 54 | 52 | 48 | 34 | 20 | 20 | 20 | 45 | *0.21* |
| DW-51 | 76599 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-52 | 76600 | 0 | 0 | 0 | 22 | 53 | 76 | 48 | 51 | 43 | 33 | 32 | 35 | *0.17* |
| DW-53 | 76601 | 76 | 121 | 119 | 121 | 119 | 111 | 103 | 112 | 104 | 118 | 118 | 115 | *0.27* |
| DW-61 | 59217 | 161 | 165 | 150 | 11 | 172 | 173 | 159 | 169 | 190 | 158 | 152 | 151 | *0.42* |
| DW-70 | 55501 | 215 | 148 | 149 | 147 | 147 | 146 | 111 | 12 | 136 | 139 | 146 | 129 | *0.48* |
| DW-72 | 44297 | 676 | 653 | 673 | 677 | 676 | 671 | 642 | 685 | 666 | 673 | 679 | 678 | *1.53* |
| DW-83 | 83333 | 248 | 247 | 243 | 241 | 238 | 237 | 234 | 233 | 231 | 240 | 188 | 235 | *0.55* |
| DW-86 | 83333 | 0 | 0 | 17 | 64 | 59 | 53 | 47 | 54 | 38 | 40 | 36 | 39 | *0.14* |
| DW-87 | 83333 | 506 | 520 | 517 | 521 | 503 | 510 | 497 | 518 | 522 | 608 | 546 | 573 | *1.35* |
| DW-88 | 83333 | 755 | 674 | 694 | 709 | 708 | 679 | 703 | 710 | 644 | 719 | 719 | 720 | *1.68* |
| DWCA-1 | 83333 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 0 | 0 | *0.00* |
| DWCA-2 | 83333 | 5 | 5 | 5 | 5 | 11 | 4 | 3 | 2 | 3 | 1 | 0 | 0 | *0.02* |
| DWCA-3 | 83333 | 9 | 26 | 25 | 16 | 6 | 4 | 2 | 3 | 3 | 1 | 0 | 0 | *0.06* |
| DWCB-1 | 83333 | 0 | 0 | 0 | 26 | 17 | 16 | 12 | 10 | 11 | 29 | 29 | 21 | *0.50* |
| DWCB-2 | 83333 | 0 | 0 | 0 | 3 | 4 | 3 | 2 | 2 | 1 | 0 | 0 | 1 | *0.29* |
| DWNW-21-01 | 83333 | 0 | 6 | 33 | 56 | 54 | 42 | 47 | 51 | 46 | 42 | 48 | 38 | *0.99* |
| DWW-1 | 83333 | 225 | 211 | 223 | 189 | 183 | 162 | 164 | 189 | 186 | 173 | 175 | 51 | *0.50* |
| DWW-2 | 83333 | 66 | 64 | 67 | 90 | 50 | 82 | 75 | 95 | 113 | 96 | 118 | 129 | *0.29* |
| DWW-3 | 83333 | 442 | 439 | 443 | 441 | 433 | 416 | 430 | 426 | 384 | 144 | 397 | 396 | *0.99* |
| DWW-4 | 83333 | 707 | 709 | 718 | 752 | 692 | 721 | 701 | 721 | 713 | 674 | 727 | 726 | *1.68* |
| DWW-5 | 83333 | 556 | 559 | 553 | 554 | 551 | 549 | 536 | 542 | 552 | 469 | 534 | 531 | *1.25* |
| DWW-6 | 83333 | 118 | 122 | 140 | 147 | 134 | 142 | 126 | 145 | 143 | 138 | 143 | 140 | *0.33* |
| DWW-7 | 83333 | 606 | 608 | 605 | 603 | 597 | 593 | 587 | 596 | 594 | 482 | 566 | 561 | *1.35* |
| DWW-8 | 83333 | 639 | 641 | 639 | 637 | 633 | 630 | 613 | 633 | 625 | 560 | 624 | 618 | *1.43* |
| DWW-9 | 83333 | 18 | 18 | 17 | 16 | 16 | 15 | 11 | 12 | 12 | 11 | 11 | 11 | *0.04* |
| DWW-10 | 83333 | 19 | 19 | 21 | 18 | 17 | 13 | 0 | 9 | 11 | 12 | 11 | 11 | *0.05* |
| DWW-11 | 83333 | 13 | 16 | 16 | 17 | 15 | 11 | 4 | 16 | 11 | 8 | 4 | 5 | *0.04* |
| DWW-12 | 83333 | 0 | 0 | 0 | 17 | 19 | 18 | 13 | 10 | 15 | 16 | 16 | 15 | *0.04* |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping Rates (gpm) ALLUVIAL (Ex-Pit) WELL FIELD | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | |
| **Alluvial Well Field (gpm)** | | | | | | | | | | | | | | |
| DWW-13 | 83333 | 0 | 0 | 44 | 53 | 97 | 31 | 46 | 48 | 44 | 51 | 47 | 27 | *0.22* |
| DWW-14 | 83333 | 0 | 0 | 0 | 0 | 41 | 45 | 39 | 42 | 37 | 44 | 42 | 42 | *0.10* |
| DWW-15 | 83333 | 304 | 305 | 303 | 303 | 302 | 301 | 300 | 300 | 297 | 302 | 288 | 300 | *0.68* |
| DWW-16 | 83333 | 196 | 212 | 215 | 210 | 87 | 260 | 207 | 207 | 203 | 206 | 198 | 182 | *0.58* |
| DWW-17 | 83333 | 213 | 214 | 210 | 200 | 202 | 202 | 195 | 206 | 194 | 189 | 197 | 175 | *0.48* |
| DWW-18 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DWW-19 | 83333 | 177 | 166 | 161 | 155 | 134 | 159 | 142 | 139 | 262 | 246 | 283 | 219 | *0.63* |
| DWW-20 | 83333 | 0 | 0 | 0 | 0 | 0 | 28 | 6 | 29 | 12 | 30 | 28 | 32 | *0.07* |
| DWW-21 | 83333 | 0 | 16 | 6 | 20 | 36 | 28 | 26 | 13 | 22 | 15 | 27 | 22 | *0.08* |
| DWW-22 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 2 | *0.01* |
| DWW-23 | 83333 | 0 | 0 | 0 | 0 | 0 | 17 | 21 | 21 | 17 | 36 | 15 | 14 | *0.08* |
| DWW-24 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 30 | 29 | 30 | *0.07* |
| SDWA-20-01 | 83333 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-02 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-03 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-04 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-05 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-06 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-07 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-08 | 83333 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-09 | 83333 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | *0.00* |
| SDWA-20-11 | 83333 | 4 | 3 | 3 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 5 | 4 | *0.01* |
| SDWA-20-12 | 83333 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-13 | 83333 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | *0.00* |
| SDWA-20-14 | 83333 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-15 | 83333 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-16 | 83333 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWA-20-17 | 83333 | 2 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 | *0.01* |
| SDWA-20-18 | 83333 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | *0.00* |
| SDWA-20-19 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | *0.00* |
| SDWA-20-20 | 83333 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | *0.00* |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping Rates (gpm)<br>ALLUVIAL (Ex-Pit) WELL FIELD | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | |
| **Alluvial Well Field (gpm)** | | | | | | | | | | | | | | |
| SDWA-20-21 | 83333 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | *0.00* |
| SDWA-20-22 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWNW-21-01 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWNW-21-02 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | *0.01* |
| SDWNW-21-03 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 2 | *0.01* |
| SDWNW-21-04 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | *0.00* |
| SDWNW-21-05 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWNW-21-06 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| SDWNW-21-07 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| North Wall Sump (5525) | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| North Wall Sump (5790) | 83333 | 0 | 3 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | *0.01* |
| **Monthly Alluvial Rates =** | | **7022** | **6961** | **7121** | **7120** | **7080** | **7218** | **6912** | **7062** | **7153** | **6768** | **7208** | **7033** | |

## Table 5 (continued) – 2021 Round Mountain Dewatering Pumping Rates

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping Rates (gpm) IN-PIT WELL FIELD | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| In-Pit Well Field (gpm) | | | | | | | | | | | | | | |
| DW-34 | 44297 | 16 | 8 | 20 | 17 | 15 | 11 | 17 | 15 | 22 | 16 | 10 | 0 | *0.05* |
| DW-36R | 12442 | 54 | 47 | 48 | 48 | 48 | 47 | 40 | 39 | 46 | 46 | 47 | 47 | *0.12* |
| DW-49R | 53365 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-55R | 55503 | 88 | 88 | 88 | 87 | 86 | 63 | 79 | 75 | 89 | 83 | 84 | 83 | *0.20* |
| DW-57 | 82950 | 275 | 243 | 234 | 240 | 233 | 225 | 195 | 213 | 257 | 216 | 228 | 220 | *0.61* |
| DW-62 | 83333 | 22 | 22 | 25 | 37 | 39 | 48 | 57 | 60 | 88 | 23 | 18 | 16 | *0.20* |
| DW-65 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-68 | 55501 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-71 | 60875 | 97 | 96 | 82 | 97 | 97 | 96 | 84 | 82 | 97 | 90 | 96 | 95 | *0.22* |
| DW-75 | 83333 | 105 | 43 | 102 | 105 | 97 | 91 | 0 | 44 | 116 | 99 | 85 | 0 | *0.26* |
| DW-76 | 83333 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-79 | 83333 | 28 | 27 | 28 | 28 | 28 | 27 | 26 | 26 | 29 | 27 | 31 | 28 | *0.07* |
| DW-80 | 83333 | 67 | 68 | 65 | 68 | 25 | 43 | 58 | 58 | 70 | 60 | 64 | 70 | *0.16* |
| DW-81 | 83333 | 0 | 0 | 0 | 0 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | *0.01* |
| DW-84 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-85 | 83333 | 82 | 53 | 72 | 80 | 79 | 66 | 41 | 64 | 70 | 65 | 58 | 57 | *0.18* |
| DW-90 | 83333 | 31 | 34 | 30 | 33 | 34 | 33 | 23 | 27 | 32 | 30 | 33 | 32 | *0.08* |
| DW-91 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-92 | 83333 | 62 | 43 | 0 | 53 | 50 | 55 | 50 | 50 | 59 | 52 | 53 | 51 | *0.14* |
| DW-93 | 83333 | 51 | 53 | 46 | 29 | 46 | 48 | 26 | 44 | 52 | 49 | 51 | 51 | *0.12* |
| DW-94 | 83333 | 3 | 1 | 2 | 0 | 8 | 6 | 6 | 7 | 9 | 9 | 11 | 9 | *0.02* |
| DW-94a | 83333 | 21 | 25 | 25 | 27 | 28 | 28 | 19 | 23 | 28 | 28 | 26 | 27 | *0.06* |
| DW-95 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-96 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DW-97 | 83333 | 0 | 34 | 12 | 10 | 10 | 10 | 10 | 11 | 11 | 15 | 16 | 10 | *0.07* |
| FV-DW-3 | 55502 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DD-1 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |
| DD-2 | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *0.00* |

| Source Name | Base Permit Number | 2021 Round Mountain Monthly Pumping Rates (gpm)<br>IN-PIT WELL FIELD | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | |
| **In-Pit Well Field (gpm)** | | | | | | | | | | | | | | |
| 4995 Phase F Sump to Booster | 83333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 5 | 9 | 30 | 8 | *0.07* |
| 5170 Phase F Sump to Booster | 83333 | 25 | 27 | 9 | 20 | 28 | 47 | 22 | 45 | 29 | 7 | 5 | 0 | *0.10* |
| 4747 Phase G Sump | 83333 | 42 | 17 | 53 | 24 | 49 | 4 | 0 | 15 | 29 | 18 | 20 | 63 | *0.14* |
| **Monthly In-Pit Rates =** | | 1070 | 929 | 942 | 1002 | 1007 | 952 | 757 | 918 | 1141 | 945 | 970 | 871 | |
| **Total Monthly Dewatering Rate =** | | **8092** | **7889** | **8063** | **8123** | **8086** | **8170** | **7670** | **7980** | **8294** | **7713** | **8177** | **7903** | |

## Table 6 – 2021 Gold Hill Dewatering Pumping Rates

| Source Name | Base Permit Number | 2021 Gold Hill Monthly Pumping Rates (gpm) | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | |
| GHB-11-1 | 70170<br>70169 | 177.6 | 171.7 | 179.1 | 301.3 | 211.6 | 337.6 | 209.5 | 266.7 | 397.6 | 225.8 | 204.0 | 153.2 | 0.89 |
| GHDW-3 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | 0.0 | 68.2 | 47.5 | 27.2 | 42.9 | 38.7 | 18.1 | 0.15 |
| GHDW-4 | 83333 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | 0.03 |
| **Monthly Pumping Rates =** | | 177.6 | 171.7 | 179.1 | 301.3 | 219.7 | 337.6 | 277.7 | 314.2 | 424.9 | 283.3 | 242.7 | 171.2 | 0.95 |

## Table 7 – 2021 Ancillary Pumping Rates

| Source Name | Base Permit Nos. | 2021 Ancillary Monthly Pumping Rates (gpm) | | | | | | | | | | | | *Max. Div. Rate (cfs)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | |
| East Well 1 | 14119, 26652, 60875 | 17.8 | 22.6 | 21.0 | 13.5 | 71.4 | 13.0 | 30.4 | 21.3 | 25.1 | 35.0 | 43.8 | 39.8 | *0.16* |
| East Well 2 | 51577, 51578, 60876 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.00* |
| West Well | 12445, 12768, 26650, 60874 | 0.0 | 0.0 | 5.6 | 15.7 | 18.1 | 9.3 | 2.6 | 5.3 | 1.0 | 10.9 | 2.8 | 9.0 | *0.04* |
| ICT Ranch Well | 54911, 54912, 64181 | 49.5 | 87.5 | 172.4 | 338.3 | 482.9 | 523.8 | 495.5 | 474.7 | 435.8 | 246.0 | 88.0 | 50.3 | *1.17* |

**Table 8 – 2021 Average Round Mountain & Gold Hill Combined Pumping Rates**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | ***Avg. Rate*** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total (RM & GH) Dewatering Pumping (gpm)** | 8,269 | 8,061 | 8,242 | 8,424 | 8,306 | 8,507 | 7,947 | 8,294 | 8,719 | 7,997 | 8,420 | 8,075 | 8,272 |
| **Total Site-Wide (RM & GH) M&M Pumping* (gpm)** | 8,287 | 8,084 | 8,268 | 8,453 | 8,396 | 8,530 | 7,980 | 8,321 | 8,745 | 8,042 | 8,467 | 8,124 | ***8,308*** |

*Note: Site-Wide pumping includes all dewatering (Round Mountain and Gold Hill) and ancillary pumping, but does not include ICT Ranch Well pumping for the golf course

## 3.3 2021 Drilling Program and Waiver Status

During 2021 RMGC added 11 new dewatering wells all at Round Mountain. The drilling program also included horizontal drains, instrumentation boreholes and pilot hole completions accounting for approximately 33,424 feet of drilling for the year. It should be noted that all pilot holes were either left open and mined through, abandoned in place or converted to instrumentation boreholes in accordance with Nevada Administrative Code (NAC) 534. Table 9 includes a more detailed summary of the completed 2021 drilling program. At Round Mountain 1 alluvial, 2 in-pit horizontal drain (sets), and 1 sump were abandoned in 2021. All wells and drains were abandoned in accordance with NAC 534 or mined out. Appendix B includes a current list of active, new and abandoned points of diversion for 2021 along with a location map (Drawings B-1 and B-2).

**Table 9 – 2021 Drilling Program Summary**

| Drilling / Completion Type | Completion ID | Permit / Waivers | General Location(s)* | Number of Completions | Total Footage |
|---|---|---|---|---|---|
| Dewatering Wells | DW(NW)-21-01; DWC(B)-01, 02; DWW-22,23,24; SDW(NW)-21-01,02,03,04,05 | 83333 | In-Pit Alluvial, RM | 11 | 5,292 |
| Instrumentation Boreholes | MO(G)-21-01; MO(NW)-21-BR4; MOH(G)-21-01,02 | N/A | In-Pit Alluvium / Bedrock, RM | 4 | 2,498 |
| Instrumentation Boreholes | FV-21-1 | N/A | Ex-Pit Alluvium / Bedrock, RM | 1 | 560 |
| Inclinometer | INC-21-01,02,03 | M/O 2351 | In-Pit Alluvial, RM | 3 | 740 |
| Angled / Horizontal Drains | DA(NW)-21-15,16,18,19; DV(NS)-21-01,02; DV(NW)-01,02,03,04,05,06,07,08,09,10,11,12,13,14,17; HD-21-01; HD-21-02a,02b; HD-21-03a,03b,03c; HD-21-04a,04b,04c | DR-0001; DR-0003; DR-0004 | In-Pit Bedrock, RM | 30 | 15,472 |
| Pilot Hole | PH(G)-21-05,06; PH(NW)-21-02,03,BR3,BR41; PH(WA)-21-01,02,03,04 | N/A | In-Pit Alluvium / Bedrock, RM | 10 | 8,862 |
| *Note: RM = Round Mountain; GH = Gold Hill | | | **Total Drilled Footage =** | | **33,424 ft** |

For several years, RMGC has been maintaining an accounting of drains, certain types of boreholes, and monitoring wells in coordination with the Drilling Regulations Section of the Nevada Division of Water Resources (NDWR). Starting in 2020, as part of this annual report, RMGC began including a detailed status summary of all drains and monitoring wells associated with the dewatering and related hydrologic monitoring programs at the Round Mountain and Gold Hill mines. This information is intended to be provided in accordance with NAC 534 in support of the required annual extensions of time for each type of waiver with completions that are needed to remain active for longer than 1 year. These details are included in Appendix C by location and type based on the following definitions:

1. Monitoring & Observation (MO) Waivers: Includes wells and certain instrumentation and/or geotechnical boreholes equipped with vibrating wire piezometers that were completed

under a MO Waivers. Appendix C only includes MO Waivers associated with dewatering and hydrologic monitoring programs.

2. Drain (DR) Waivers – Type 1: Includes drains that are completed in areas that require temporary short term groundwater depressurization in advance of mining where the groundwater captured by the drains cannot be directly accounted for within the dewatering system. A common example of this type of drain at Round Mountain is a vertical drain that is used to gravity drain groundwater to another hydrogeologic unit that is already depressurized by existing dewatering components such that the drained groundwater is assumed to be accounted for passively and elsewhere in the system.

3. Drain (DR) Waivers – Type 2: Includes drains that are completed in areas that require temporary groundwater depressurization over longer periods of time. A common example of this type of drain at Round Mountain is a horizontal drain used to gravity drain groundwater in areas where the captured water can be or must be conveyed directly to an actively operated dewatering well or sump where the diversion of groundwater is directly accounted for within existing infrastructure.

It should be noted that the MO waivers included in this report (Appendix C) do not include monitoring wells completed for environmental compliance purposes and regulated through the Nevada Division of Environmental Protection, even though the wells were all completed under NDWR waivers.

# 4.0 2021 Site Water Balance Summary

At the Round Mountain mine, water produced by the dewatering system is managed in a series of storage ponds known as the 'Upper' and 'Lower' Fire and Process Ponds, respectively. Process demands are met from these ponds with any excess water from the dewatering system (not used for dust control and process) being conveyed to Rapid Infiltration Basins (RIBs). As shown in Drawing A-1 and Plates 2 and 3, the Valley RIB consists of two cells, or basins, and is located approximately 2.5 miles downstream of the Lower Fire Pond. Excess water not used on site is conveyed down a natural channel to the Valley RIBs. The Valley RIBs began operation in the early 1990s with the North Cell. The South cell of the Valley RIBs began operation in January 2011. Both (Valley RIB) cells operated continuously until December 2012, when most excess water was diverted to the South RIB Complex shown in Drawing B-1 and Plate 2. Beginning in late 2012 RMGC began using the South RIB Complex as the primary source for recharge of excess water at the Round Mountain operation as it is a more effective means of infiltrating unused groundwater back into the alluvial aquifer system in the Big Smoky Valley. The Valley RIBs, which are less effective due to lower infiltration rates, are only used intermittently as a secondary facility during South RIB Complex maintenance, pumping station or site power failures and for dust control (at the Valley RIBs).

The site-wide water balance for RMGC is based on a number of direct measurements and a series of internal calculations within a numerical water balance model. RMGC constantly monitors and reviews the site water balance as part of a comprehensive plan designed to allow the mine to operate without significant risk of harmful or illegal discharges, with optimum fresh water consumption and in a manner that will position the operation for efficient closure or expansion in the future.

For purposes of this monitoring report, the calibrated water balance model provides a means to use direct measurements of specific water inputs and outputs to quantify changes in storage and related parameters that affect the overall beneficial and consumptive uses of water at the Round Mountain and Gold Hill sites. It should be noted that the model includes more detailed simulations within specific process components, such as the heap leach (pads), tailings storage facility (Round Mountain only) and process ponds. These processes are not discussed in detail as the focus of this report is to describe overall consumptive use values from these facilities in the context of the site-wide water balance.

Water balance inputs include groundwater pumping (dewatering and valley production wells) and precipitation. Outputs include on-site dust suppression, ore processing (evaporation from ponds and heap leach pads), infiltration (RIBs) and potable water consumption. The following sections provide a high level overview of the major processes within the water balance model. Figure 2 includes a graphical presentation of these same processes.

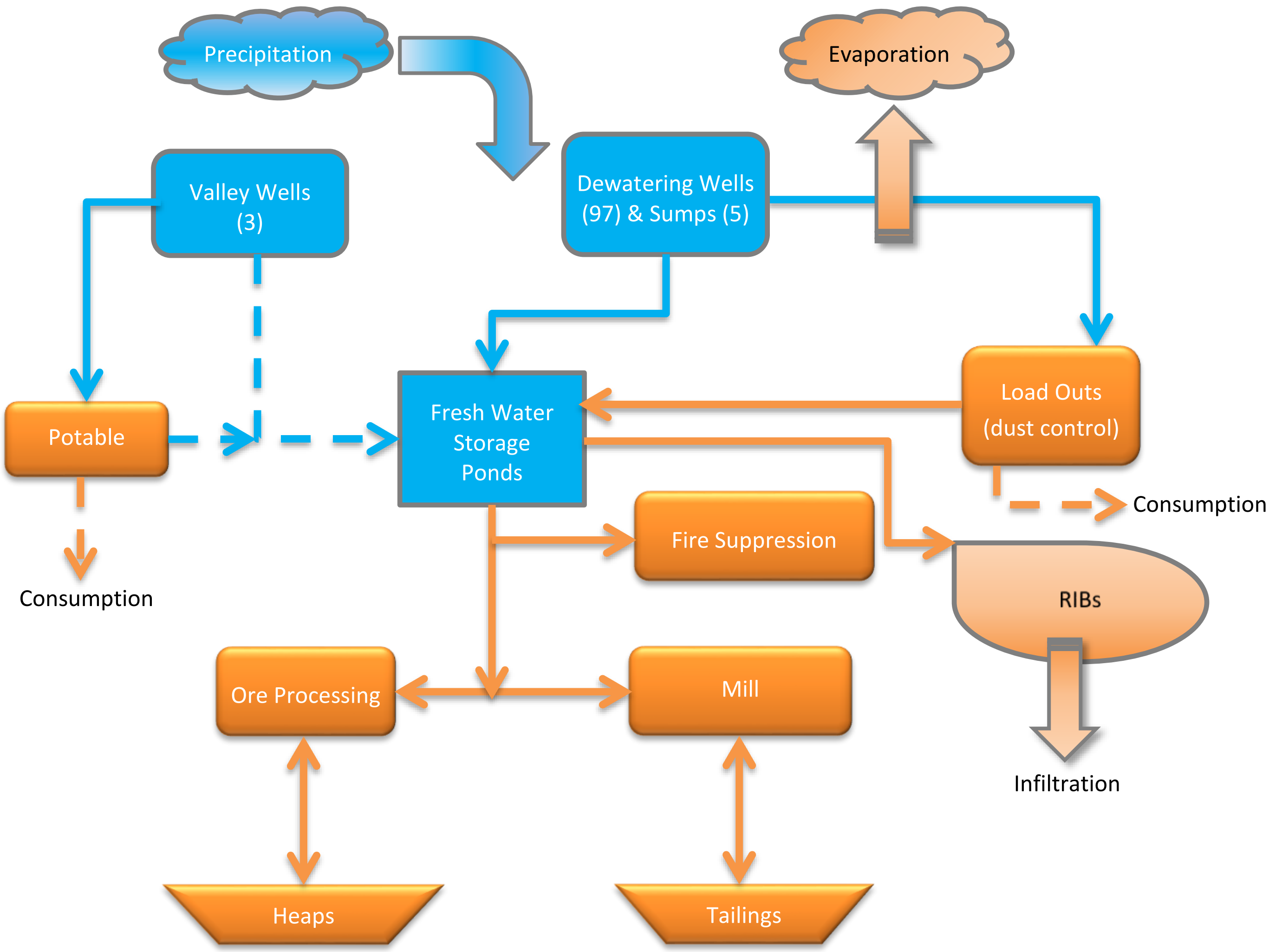



***Figure 2.*** *Flow diagram depicting major processes within the site-wide Round Mountain water balance model.*

## 4.1 Groundwater Pumping

Groundwater pumping is the most significant input to the water balance model and is dominated by the dewatering system within the active mining areas of the Round Mountain and Gold Hill pits. A small amount of additional groundwater is pumped from the valley alluvial wells located west of the Round Mountain mine. Nearly all of the water used in the various mining processes is derived from the dewatering system. Over the last several years the primary purpose of the 'Valley Wells' has shifted from makeup to potable supply for the mine.

As of 2021, the Round Mountain in-pit dewatering system consisted of 102 points of diversion, which includes 28 wells and 3 active sumps yielding water from within volcanic, granite and metasedimentary rock hydrogeologic compartments within the main pit. The alluvial well field is generally west of the main pit and consists of 69 wells and 2 sumps producing groundwater from unconsolidated granite and placer-derived alluvial sediments above the Stebbins Hill formation. These wells and sumps report to the Lower Fire (Process) Ponds (two ponds in series). The process ponds described in this section are large (lined) storage reservoirs that play significant roles in RMGC's ability to effectively manage dewatering and process water on site.

### 4.2 Surface Water Flows

At the Round Mountain Mine, surface water flow from upslope drainage areas is diverted away from the ponds and pads by engineered structures. Therefore, surface water inflow other than direct facility precipitation is not a component of the model.

### 4.3 Precipitation

Direct precipitation falls onto the heap leach pads, ponds and Tails Storage Facility (TSF). The water balance model incorporates this process explicitly for each facility based on the current facility layouts.

The water balance model includes site specific precipitation data from the Met 1 station near the administrative building. The data provide a nearly continuous record of precipitation from December 1, 1993 to present. The average annual precipitation at the site has varied between 3 and 8 inches per year but generally averages 5 to 6 inches.

### 4.4 Evaporation

Evaporation from ponds, pads and the TSF is a part of the overall mine water consumption. Monthly evaporation data were obtained from the NCDC Historical Listing for the "Central Nevada Field" meteorological station, located 52 miles north-northwest of the mine, on the east flank of the Toiyabe Range. The total average annual pan evaporation is approximately 66.7 inches, with average monthly values ranging from 0 inches (December) to 10.7 inches (July). These data are used for evaporation calculations prior to May 2008, and for synthetic evaporation values supporting predictive simulations. Site-specific evaporation data are available from May 2008 onward, and these data are used in the model from that time through the date of the most recent available data.

Open ponds (mill and fresh water fire/process) generally lose water to evaporation at approximately 70% of the pan evaporation rates. Ponds in the Ore Processing circuit contain protective measures (netting and bird balls) to keep wildlife away from solution, which also minimizes evaporative losses. Therefore, a coefficient of 15% of the pan evaporation rates is used for process ponds.

Leach pad evaporation rates have varied over the life of the leach pads as operation methods have changed. Evaporative losses from the leach pads decreased starting in 2006 as the mine implemented a program to bury the emitters placed on the tops of the pads to reduce cyanide volatilization. Estimating an evaporation coefficient from leach pads and TSF is variable and complex based on moisture retention, drainage and loading parameters. Therefore, this parameter is estimated within the water balance model as part of the calibration process. Calibration is achieved through dynamic simulation of combined pond levels to within 15% of actual measurements.

## 4.5 Dust Suppression

Water from the dewatering system is used to control dust throughout the site. The mine relies on dedicated water trucks that are loaded from water loadouts. The Round Mountain mine has two main dedicated loadouts at the top of the pit and loadouts that are used occasionally within the pit, as needed. All loadouts are equipped with flow meters and it is assumed that 100% of water sent to these loadouts is lost to evaporation. The South Loadout (dedicated) is fed directly from the Upper Fire Pond, which receives water from the in-pit dewatering system. Select alluvial wells with elevated arsenic and fluoride concentrations are piped directly into the North Loadout to maximize the consumption of this water and to help minimize the arsenic and fluoride concentrations in the Lower Fire/Process Pond where it is blended with water containing lower levels of arsenic and fluoride. All excess water not used in process is pumped directly to the South RIB facility (primary) or conveyed by gravity to the Valley RIB facility (secondary).

## 4.6 Groundwater Discharge

As previously described, excess water not pumped out of the Lower Fire/Process Ponds for process is pumped approximately 4 miles via pipeline to the South RIB facility at the south end of the property where water is infiltrated back into the groundwater system. When the South RIBs are not in service, water is conveyed through a natural channel to the Valley RIB facility, where approximately 50% of all discharged water is infiltrated back to the aquifer as open channel transmission losses from the site to the RIBs. The South RIBs cells are constructed in highly permeable alluvial sediments within an approximately 400 ft thick vadose zone and have proven to be very efficient in maximizing the amount of artificial recharge (from excess dewatering groundwater) going back to the aquifer. Evaporation is considered to be an insignificant component in the water balance model from the South RIB facility. However, evaporation was a more significant consideration in the Valley RIBs (when used), as the Valley RIB infiltration rates are significantly lower than the South RIB infiltration rates with more than 50% of the total infiltration occurring as transmission losses in the unlined natural channel between the mine and the Valley RIBs, some of which is captured (recycled) within the dewatering system.

## 4.7 Potable Water Consumption

Consumption of groundwater for domestic purposes at the mine sites is a minor component in the overall water balance, but is directly measured from each potable water tank and is therefore included in the model. At Round Mountain, potable water is consumed from groundwater conveyed to the site from the Valley Wells.

## 4.8 Round Mountain Water Balance Model Output

A monthly summary of the 2021 water balance for the Round Mountain Mine is included in Table 10 and the annual water distribution is shown in Figure 3. Not reflected in the water balance information below, but worth noting, is the fact that RMGC recirculated 71,332 ac-feet of water in (heap leach and mill/tailings) processing at Round Mountain for 2021.

**Table 10 – 2021 Round Mountain Monthly Water Balance Summary**

| | Precipitation Captured Onsite | Groundwater Pumpage | Discharge To Groundwater (RIBS) | All Evaporation Losses (ponds and pads) | All Loadouts for Dust Control | Valley Wells Pumping for Potable | Change In Storage |
|---|---|---|---|---|---|---|---|
| | Input (ac-ft) | | Output (ac-ft) | | | | ∆ Storage (ac-ft) |
| 2021 Jan | 6.9 | 1010 | 787 | 60 | 25 | 2.9 | 136 |
| 2021 Feb | 74.3 | 1016 | 716 | 45 | 28 | 2.2 | 295 |
| 2021 Mar | 26.4 | 1225 | 1119 | 57 | 29 | 1.2 | 297 |
| 2021 Apr | 8.2 | 995 | 681 | 95 | 36 | 1.2 | 184 |
| 2021 May | 36.1 | 1010 | 654 | 124 | 46 | 2.9 | 212 |
| 2021 Jun | 48.8 | 1225 | 654 | 121 | 83 | 3.9 | 449 |
| 2021 Jul | 132.4 | 984 | 596 | 117 | 49 | 1.9 | 349 |
| 2021 Aug | 109.9 | 1216 | 687 | 130 | 71 | 2.5 | 427 |
| 2021 Sep | 0.3 | 1022 | 602 | 131 | 58 | 1.4 | 223 |
| 2021 Oct | 12.5 | 1000 | 514 | 85 | 62 | 1.9 | 344 |
| 2021 Nov | 57.7 | 1236 | 839 | 65 | 29 | 2.6 | 349 |
| 2021 Dec | 0.0 | 1034 | 685 | 61 | 8 | 1.7 | 269 |
| **Totals =** | 514 | 12,972 | 8,235 | 1,092 | 525 | 26 | 3,533 |

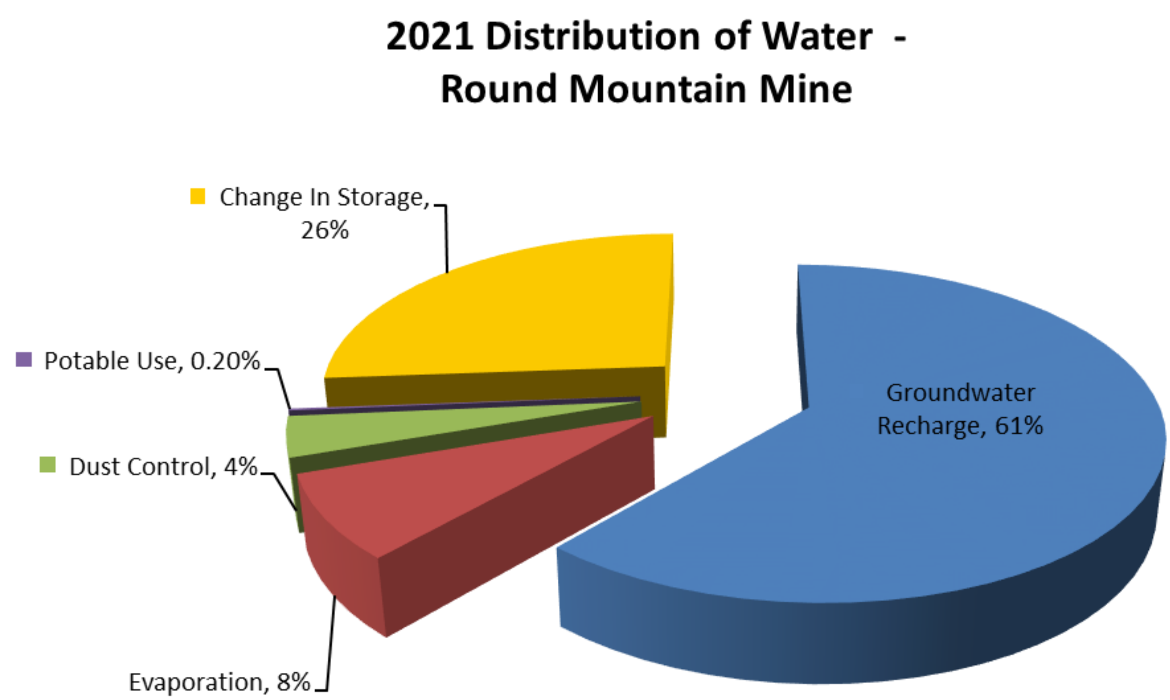



***Figure 3.*** *2021 distribution of water at the Round Mountain site.*

### 4.9 Gold Hill Water Balance Model Output

All groundwater pumped at Gold Hill is derived from wells GHB-BPW and GHB-11-1 completed in the 'sinter' geologic unit and GHDW-3, GHDW-4, which were constructed in 2015 in the Jefferson Canyon Tuff geologic unit. As of 2021, 100% of the water pumped at Gold Hill is used consumptively for mining and processing, dust control and potable use. There are currently no plans to construct RIBs at Gold Hill. A monthly summary of the 2021 water balance for the Gold Hill Mine is included in Table 11 and the annual water distribution is shown in Figure 4. Not reflected in the water balance information below, but worth noting, is the fact that RMGC recirculated 4,871 ac-feet of water in processing at Gold Hill for 2021.

**Table 11 – 2021 Gold Hill Monthly Water Balance Summary**

| | Precipitation Captured Onsite | Groundwater Pumpage | Ground-water Discharged | All Evaporation Losses (ponds and pads) | All Loadouts for Dust Control | Sinter Wells to Potable | Change In Storage |
|---|---|---|---|---|---|---|---|
| | Input (ac-ft) | | Output (ac-ft) | | | | Δ Storage (ac-ft) |
| 2021 Jan | 0.9 | 22 | 0 | 0.00 | 5.0 | 0.067 | 18 |
| 2021 Feb | 2.0 | 23 | 0 | 0.00 | 3.8 | 0.044 | 21 |
| 2021 Mar | 1.7 | 15 | 0 | 0.38 | 2.7 | 0.055 | 13 |
| 2021 Apr | 2.2 | 37 | 0 | 0.77 | 3.7 | 0.070 | 35 |
| 2021 May | 3.7 | 26 | 0 | 1.19 | 8.7 | 0.134 | 20 |
| 2021 Jun | 2.6 | 52 | 0 | 1.33 | 4.6 | 0.122 | 48 |
| 2021 Jul | 2.1 | 26 | 0 | 1.54 | 22.1 | 0.069 | 4 |
| 2021 Aug | 2.6 | 50 | 0 | 1.59 | 16.6 | 0.059 | 35 |
| 2021 Sep | 0.8 | 56 | 0 | 1.45 | 18.4 | 0.047 | 37 |
| 2021 Oct | 1.2 | 32 | 0 | 0.57 | 14.8 | 0.050 | 18 |
| 2021 Nov | 3.2 | 38 | 0 | 0.22 | 12.6 | 0.037 | 28 |
| 2021 Dec | 2.6 | 29 | 0 | 0.01 | 25.3 | 0.015 | 6 |
| **Totals =** | **26** | **406** | **0** | **9.03** | **138.3** | **0.768** | **283** |

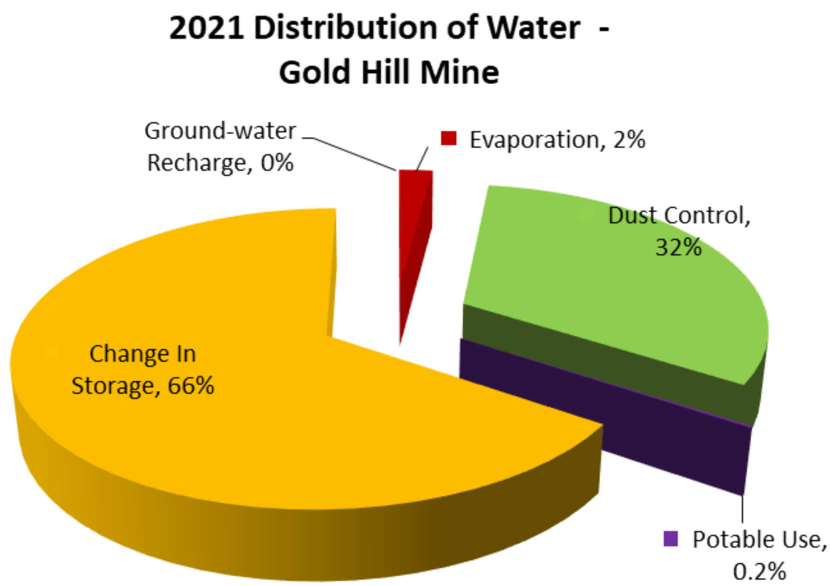



***Figure 4.*** *2021 distribution of water at the Gold Hill site.*

## 4.10 Overall Water Rights Permit – Water Distribution

As required in the terms of RMGC's current water rights permits the overall distribution of groundwater diverted for mining, milling and domestic purposes is summarized in Table 12 below. Based on 13,389 acre-feet of diverted groundwater for 2021, approximately 36% was used consumptively, which is accounted for by total estimated evaporative losses, dust control, processing, potable uses and changes in storage. Approximately 64% of the pumped groundwater was discharged to permitted RIBs and returned to the Big Smoky Valley (Basin 137b) groundwater source as recharge.

**Table 12 – 2021 Round Mountain & Gold Hill Diverted Groundwater Distribution**

| | Acre-ft | % |
|---|---|---|
| **Total Combined Pumping (MM&D):** | 13,389 | - |
| **Total Consumptive Use:** | 5,153 | 38% |
| **Total Discharged Infiltration:** | 8,235 | 62% |

With the start of the Phase W expansion in 2018 at Round Mountain, pumping associated with dewatering in 2021 increased by 70% over the 2013-2017 average rate prior to the Phase W expansion. As shown in Figure 5, the increased pumping resulted in a corresponding increase in amount and percentage of groundwater that was recharged back into the basin from infiltration at the Round Mountain RIBs. It is expected that dewatering will remain steady or slightly increase over the next 1 to 2 years as the Round Mountain pit continues to expand as part of the Phase W mine plan. As dewatering increases, recharge by infiltration as a percentage of groundwater pumped will continue to increase due to fact that consumptive uses will remain relatively constant.

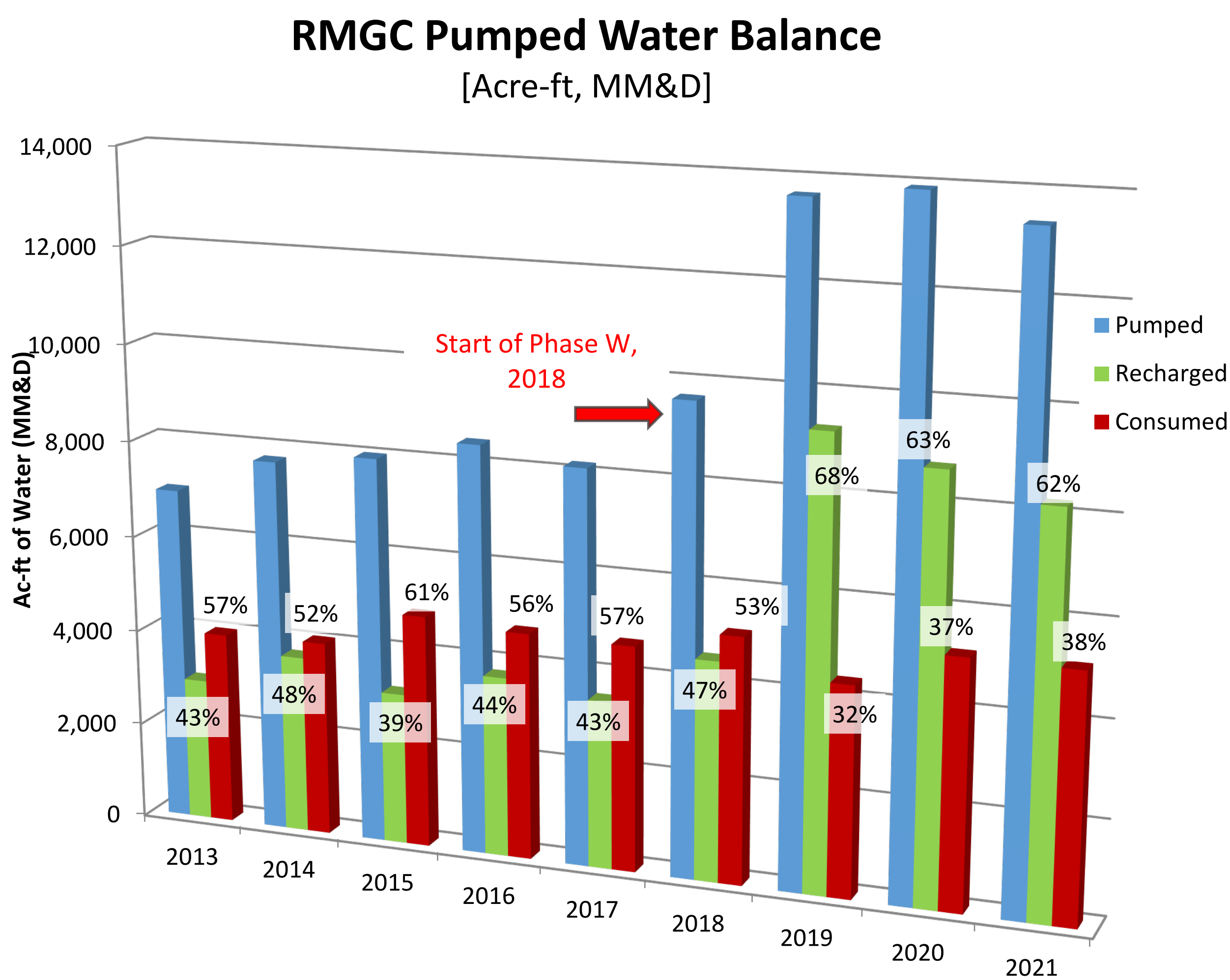



***Figure 5.*** *Pumped groundwater distribution (Round Mountain and Gold Hill)*

## 5.0 Review of Groundwater Conditions

Dewatering at the Round Mountain and Gold Hill pits began in 1990 and (late) 2011, respectively. With the approval of the Phase W expansion in late 2017, the authorized pit bottom elevation at Round Mountain is approximately 4,120 ft-above mean seal level (amsl), which is approximately 1,500 to 1,600 feet below the pre-mining groundwater table at approximately 5,700 ft-amsl. Figure 6 includes a plot showing the pit bottom elevation over time versus observed composite groundwater elevations in the alluvial aquifer (outside of the pit) and pit bedrock compartments (inside the pit).

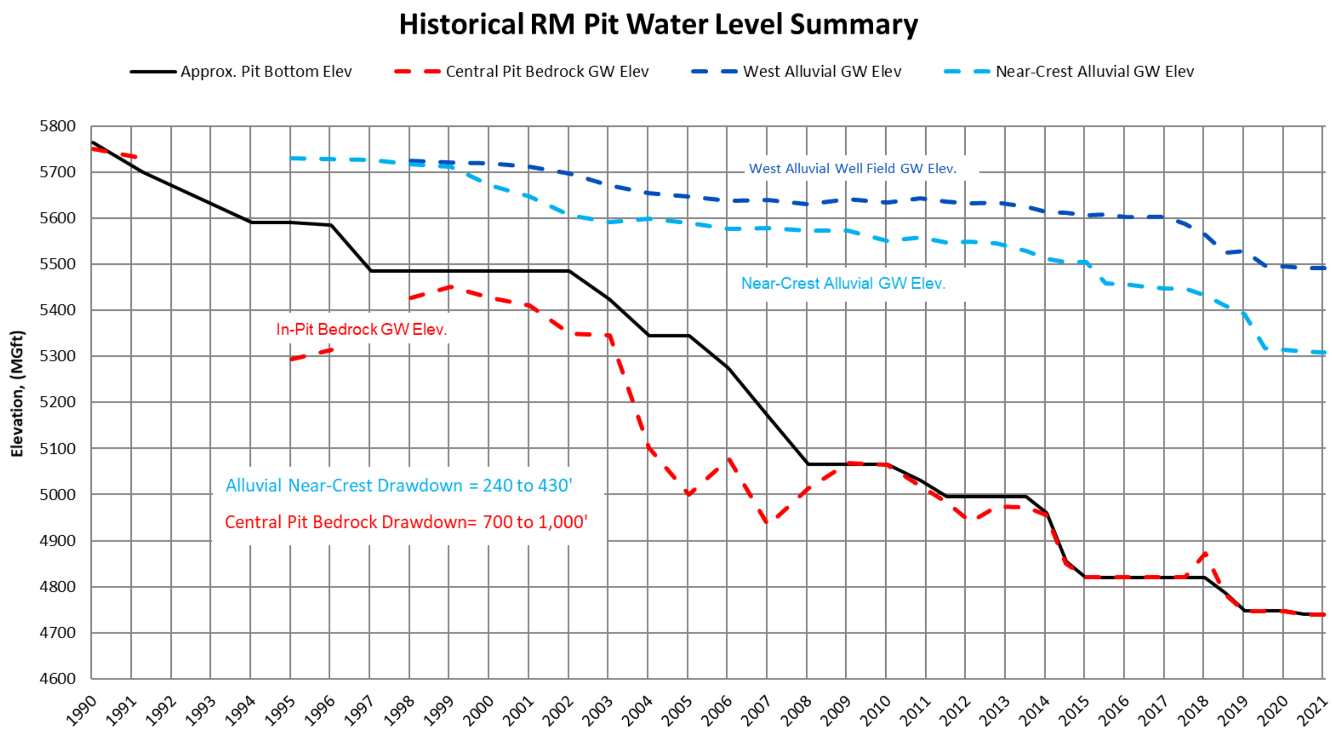



***Figure 6.*** *Historical changes in water levels in relation to the deepest pit elevation over time.*

## 5.1 Summary of Regional Groundwater Levels

As shown in Plates 3 and 4, RMGC's groundwater monitoring network spans a substantial area at the southern end of Big Smoky Valley–North (Basin 137b) and the northern end of Big Smoky Valley-South (Basin 137a). The RMGC Hydrology and Environmental Departments regularly monitor groundwater levels within the pits and regionally (outside of the pits). These data are submitted to NDWR on a quarterly basis throughout the year. Select hydrographs, representing overall groundwater response from pit dewatering and regional (non-mining) background influences, are included in Appendix A. The hydrographs are arranged from north to south and represent the period of record at each site. Monitoring locations are shown in Appendix A (Drawing A-1) and Plate 3.

### 5.1.1 Groundwater Elevation Contours

Groundwater elevation contours for Big Smoky Valley-Northern Part (Basin 137B) and the northern portion of Basin 137A (Big Smoky Valley- Tonopah Flat) are shown on Plate 4. These groundwater contours reflect current water levels in ft-AMSL within the basin-fill groundwater system with 20 foot contour intervals. General observations from overall groundwater level monitoring was interpreted from hydrographs and Plate 4 are summarized as follows:

- The basin scale groundwater levels for end of year 2021 reflect little overall change since 2013 (the start of the annual reporting) at distances beyond 2.5 miles from the center of the dewatering well fields at both Round Mountain and Gold Hill open pits.

- The basin-fill groundwater system contours are typical of the basin and range setting, with the lowest levels in the center of the valley, and highest levels on the valley margins.

- A saddle point exists at the basin divide between Basins 137a and 137b. Groundwater north of the divide flows to the north towards a playa, while water to the south of the divide flows to the south towards Tonopah Flat.

- The extended area of similar groundwater elevations ranging between 5,630 and 5,650 ft AMSL in the central part of the valley from south of the basin divide north to Carvers is attributed to the high transmissivity of the valley fill alluvial groundwater system in this area.

- The cone of depression to the west of the Round Mountain pit indicates groundwater flow towards the alluvial dewatering system near the west pit wall with the area of the most significant drawdown concentrated near the pit crest.

- The closely spaced contours to the west of the Gold Hill pit are attributed to the very low transmissivity of the basin-fill groundwater system in this area. No dewatering is occurring in alluvium at Gold Hill and water levels in alluvial monitoring points in the west pit wall reflect minor declines in elevation.

### 5.1.2 Groundwater Hydrographs

Groundwater hydrographs are grouped geographically into three areas:

1. Gold Hill area: Crowell Ranch Well (CRW), Wells GHA-03-6, GHB-03-4, GHB-BPW and GH-RW-1 (Figures A1 through A5)

2. West and Northwest of the Round Mountain Pit and Near-Pit areas: Wells MW-112, MO 2013-4-450, BMW-3, MW-109R & 110R, 96-1, MO 2013-3-670, MO 2000-3, and MO 2000-9 (Figures A6 through A12)

3. South of the Round Mountain area: Wells MW-105, MW-106A, MW-113, RMW-2, MW-114, MW-117, and MW-118 (Figures A13 through A19)

- Gold Hill Area:
  - Alluvial wells GHA-03-6 (Figure A2) and GH-RW-1 (Figure A5) have steady water levels through time. This supports the data from baseline characterizations studies prior to 2013 that demonstrate a limited hydraulic connection between the alluvium and the underlying bedrock sinter unit which is being pumped for mine dewatering at Gold Hill.

  - Groundwater levels immediately west of the Gold Hill pit continued to decline in 2021 in response to mine dewatering. The greatest declines have occurred in the area of pumping well GHB-BPW (Figure A4), with a decline of approximately 425 feet (in the Sinter Unit) by the end of 2021 (~389 ft lower than the end of 2018). As noted in Figure A4, the GHB-PBW well was plugged and abandoned in early 2020. As a result, starting in 2020, this hydrograph (Figure A-4) will be a composite with GHB-BPW (historical) and GHB-11-1 (going forward) since these wells were screened in the same formation and reflect similar levels. Potentiometric head in the confined Sinter Unit began recovering (see Figure A4) in 2015 in response to pumping from wells GHDW-3 and GHDW-4 that were brought online in 2014, which were completed in the Jefferson Canyon (volcanic) Tuff Unit. These two wells have helped offset production from the Sinter Unit. Water-level declines have been more subdued in the eastern part of the pit. For example, in bedrock well GHB-03-4/4R (Figure A3) water levels have declined approximately 40 feet since 2013 but have been relatively stable over the last three years reflecting a slight increase since 2019.

- Referring to the alluvial groundwater contours depicted in Plate 4, changes in the 5,620 (ft-AMSL) elevation contour are considered an overall indication of the alluvial aquifer response west of and in the vicinity of the Gold Hill pit. The interpreted 5,620-ft contour west of the Gold Pit reflects little change since 2013 with less than 5-ft of observed drawdown in the alluvial aquifer within 1 mile west of the center of the Gold Hill Pit. Specifically, there has been little, if any, additional drawdown since 2018 indicating steady state conditions in the alluvial aquifer near the pit.

- <u>West and Northwest of the Round Mountain Pit and Near-Pit Areas:</u>
  - Alluvial wells MW-112 (Figure A6), MO 2013-4-450 (Figure A7), 96-1 (Figure A10) and MO 2013-3-670’ (Figure A11) reflected continued declines in water levels in response to the increased focus on alluvial dewatering, as required for the authorized Phase W expansion. Well 96-1 (Figure A10) and MO 2013-3-670’ (Figure A11) exhibit the greatest response to pumping as they are closest to the dewatering wells west of the pit crest. Note that in 2016, the hydrograph for MO 2013-3-670’ replaced MO 2007-1, which experienced an instrumentation failure in 2015. MO 2013-3 is an instrumentation borehole (piezometer) with multiple lithologic-specific transducers; the data reported here is from the transducer set at 670 ft-bgs, which is at the bottom of the alluvial aquifer. Alluvial wells MW-112 (Figure A6) and BMW-3 (Figure A8) and MW-109R / MW-110R (Figure A9) all located toward the center of Big Smoky Valley, reflect varied responses from increased alluvial dewatering, continued regional drought and a sharp reduction in Valley RIB use at the end of 2012. Note that between 2010 and 2012 water levels in MW-112 and BMW-3 were steady due to the expansion and increased use of the Valley RIB system, followed by a declining trend that began in early 2013 in response to a significant decrease in discharge to the Valley RIBs when the primary discharge destination was directed to the South RIB system.

  - Near-pit bedrock well MO 2000-3 (Figure A12) exhibits a response to bedrock dewatering pumping that fluctuates due to dynamic mining and dewatering conditions in the southeastern pit sector. MO 2000-9 (Figure A12), located in the Kelsey Canyon drainage southeast of the pit, indicates that water levels have risen ~135 ft since limited (active) dewatering ceased in that area in 2010.

  - Referring to the alluvial groundwater contours depicted in Plate 4, changes in the 5,620 (ft-AMSL) elevation contour are considered an overall indication of the alluvial aquifer response west of and in the vicinity of the Round Mountain pit. Since 2016 the 5,620-ft contour is projected to have propagated approximately 4,900 feet to the west (further from the pit) along the drainage / conveyance channel to the Valley RIBs, which indicates approximately 10-ft of drawdown within 1.5 miles west of pit, or halfway between the pit and Valley RIBs. The extent of drawdown west of the Round Mountain pit is consistent with predictions from groundwater modeling that supported the RMX (2010) and Phase W (2017) expansions (WSP-PB, 2017). Also, as noted above, drawdown west of the Round Mountain pit is also variable in response to discharge to the Valley RIBs due to significant transmission losses within the unlined channel and recycling of pumped groundwater that occurs when the Valley RIBs are in use.

- South of the Round Mountain Site:
  - Alluvial wells MW-105, MW-106a, MW-113, and MW-114 (Figures A13, A14, A15 and A17, respectively) are located southwest of the Round Mountain pit and west, or downgradient, of the South Rapid Infiltration Basin (RIB) Complex. Water has been infiltrated in the South RIB Complex since December 15, 2012. Prior to Fall 2013, wells MW-106a and MW-113 exhibited a generally declining trend in water levels due to influence from alluvial dewatering. However, since late 2013, water levels in these two wells have rebounded from infiltration into the South RIB Complex. Water levels in well RMW-2 (Figure A16), located closest to and downgradient from the South RIB Complex, exhibited an increase in water level starting in March 2013, which continued into early 2015, followed by a continued increase in 2021 in direct response to increased recharge from a corresponding increase in dewatering. As of the end of 2021 groundwater levels immediately downgradient of the South RIBs reflect with a maximum rise of nearly 44 feet since RIB discharge began in late 2012. These downgradient water level increases were predicted by groundwater modeling in support of the permitting associated with the RIBs. Any further expansion in pit dewatering will result in a corresponding increase in discharge to the South RIBs; thus providing more recharge to the alluvial aquifer south of the mine.
  - Alluvial wells MW-114 and MW-117 (Figures A17 and A18), located southwest of the South RIB Complex, exhibit a slight but steady decline in groundwater levels over time as an apparent response to regional drought conditions and influence from nearby irrigation pumping, although slight increases were observed between 2019 and 2020.

# 6.0 Subsidence Monitoring

The potential for subsidence was evaluated at the screening level for the 2010 Round Mountain Expansion (also known as RMX) Environmental Impact Statement (EIS), which supported a mine expansion authorized in 2010 at Round Mountain (including Gold Hill). This assessment determined that conditions are not favorable for subsidence. Because much of the water is returned to the basin via the RIBs, the observed drawdown is small over the area to the west of the mine. To date, there has been no evidence of dewatering-induced settlement such as tension cracks, fissure gullies, or differential movement of infrastructure in the mine area or elsewhere in the Hydrologic Study Area defined in the 2015 to 2017 updated Baseline Studies in support of the currently authorized 2017 Phase W expansion at Round Mountain (WSP-PB, 2017).

Currently there are two key factors which limit the potential for subsidence from mine dewatering. These include (i) the incompressibility of the groundwater system matrix and (ii) the limited magnitude of projected drawdown based on the following observations:

- The alluvium west of the mine is composed mostly of Type 51 (T51) alluvium. The T51 is characterized as poorly-cemented pediment gravels containing rounded cobble to boulder-sized clasts in a sandy matrix with minor clay horizons. This basin-fill unit is well characterized at Round Mountain, in the several-hundred foot alluvial exposure in the western pit wall, in dewatering and monitoring wells west of the pit, in the seven deep piezometers drilled west of the mine for Phase W (in 2013), and in water-supply and monitoring wells in Big Smoky Valley. These types of materials have limited compressibility. Because there are relatively few fines (less than 1% clay) overall, the matrix of the material is self-supporting and does not rely on pore water pressure to maintain its structure. In addition, since the groundwater system is highly permeable and well connected, the potential for leakage from the minor low-permeability clay interbeds is also low.
- Outside the project area, 10 ft or less of drawdown has occurred since the increase in open-pit dewatering between about January 2000 and January 2004. In the intervening 15 years, the pumping rates at Round Mountain have been relatively stable, with the exception of 2019. A maximum of about 15 ft of additional drawdown is predicted by the time of maximum drawdown extent after the end of the current project mine life. The limit of the 10 ft cumulative drawdown contour is shown in WSP-PB (2017). The maximum cumulative drawdown inside the project area is only about 25 ft. Even if there were to be some small-scale settlement of the upper levels of the alluvium associated with this, the loss of groundwater storage capacity would be no more than 0.004% over the vertical section of alluvium where drawdown is occurring. Basin-wide, the impact to the groundwater storage capacity would be negligible.

It should be noted that most of the incremental increase in pumped water associated with the future dewatering of Phase W will also be returned to the basin via the RIBs. Therefore, the magnitude and distribution of drawdown for Phase W is predicted to be similar to RMX. Consequently, it was also concluded that the conditions are unfavorable for subsidence from continued Phase W dewatering. For this reason, subsidence was not considered a reasonably foreseeable potential impact to the hydrologic system.

However, beginning in late 2017, RMGC proactively implemented a subsidence monitoring program as a means to confirm and demonstrate the lack of subsidence signals over a wide area in the near surface beyond the pit dewatering well fields.

## 6.1 InSAR Program Summary

In late 2017 RMGC began using a remote sensing technique for monitoring ground and slope displacements over a wide area in the vicinity of the Round Mountain Pit and beyond. This technique is based on radar images of the Earth's surface obtained from Synthetic Aperture Radar (SAR) for analysis of surface deformations. InSAR, as it is commonly known, has been deployed to supplement RMGC's existing network of ground based survey prisms and state-of-the-art slope stability radar systems. The specific InSAR method deployed at Round Mountain is based on radar satellites that allow for the measurement of ground displacements to millimeter accuracy using a technique that relies on a 'multi interferogram' approach. The latest development of this technique is SqueeSAR$^{TM}$, which allows the identification of discrete ground points and their displacement in time (Giannico, et. al., 2012).

### 6.2 2D SqueeSAR Results

The baseline historical 2D movement decomposition used the temporally overlapping portions (November 15, 2014 to November 23, 2017) of the Line-of-Sight (LOS) results (ascending and descending data archives) to obtain true vertical and east-west horizontal movements with millimeter precision.

The vertical and horizontal deformation rates over the Round Mountain and Gold Hill mines as measured from the Sentinel data in inches per year and millimeters per year are shown in Figures 7 and Figure 8. Average deformation rates are calculated from a linear regression of the ground movement measured over the entire period covered by the satellite images, and relative to a reference point selected based on location and radiometric characteristics. Each measurement point is color-coded according to its annual rate of movement.

Figure 7 shows the horizontal (east-west) deformation rates with negative (brown) values indicating westward movement and positive values (blue) indicating eastward movement. The Round Mountain pit (northeast facing pit wall) contained the highest eastern movement with up to +13.06 in/yr (+331.6 mm/yr), while the Round Mountain old pit (northwest facing pit wall) recorded the highest western movement with up to -6.56 in/yr (-166.5 mm/yr).

Figure 8 shows the vertical component of deformation with negative (red) values indicating downward movement and positive (blue) values indicating uplift. The South Dump had the highest observed vertical (downward) rates with up to -15.67 in/yr (-398.1 mm/yr), while the Round Mountain pit had the highest uplift rates with up to +1.80 in/yr (+45.6 mm/yr), TRE Altamira (2019).

The deformation data as described in the TRE Altamira (2019) Technical Report indicates that no significant ground movement is occurring west of the Round Mountain and Gold Hill pits that would be indicative of subsidence due to groundwater depletion.

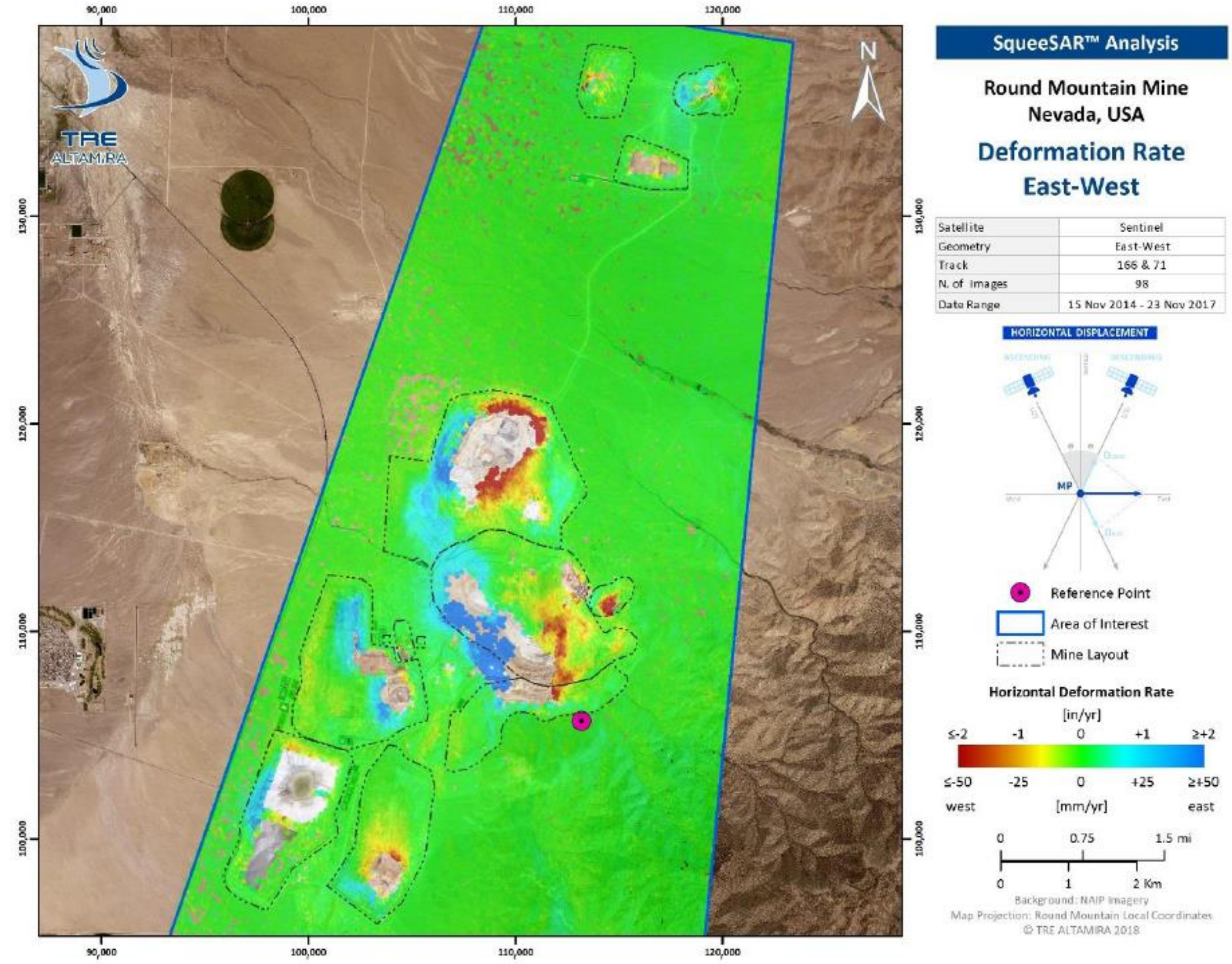



***Figure 7.*** *Horizontal deformation rates (2014-2017).*

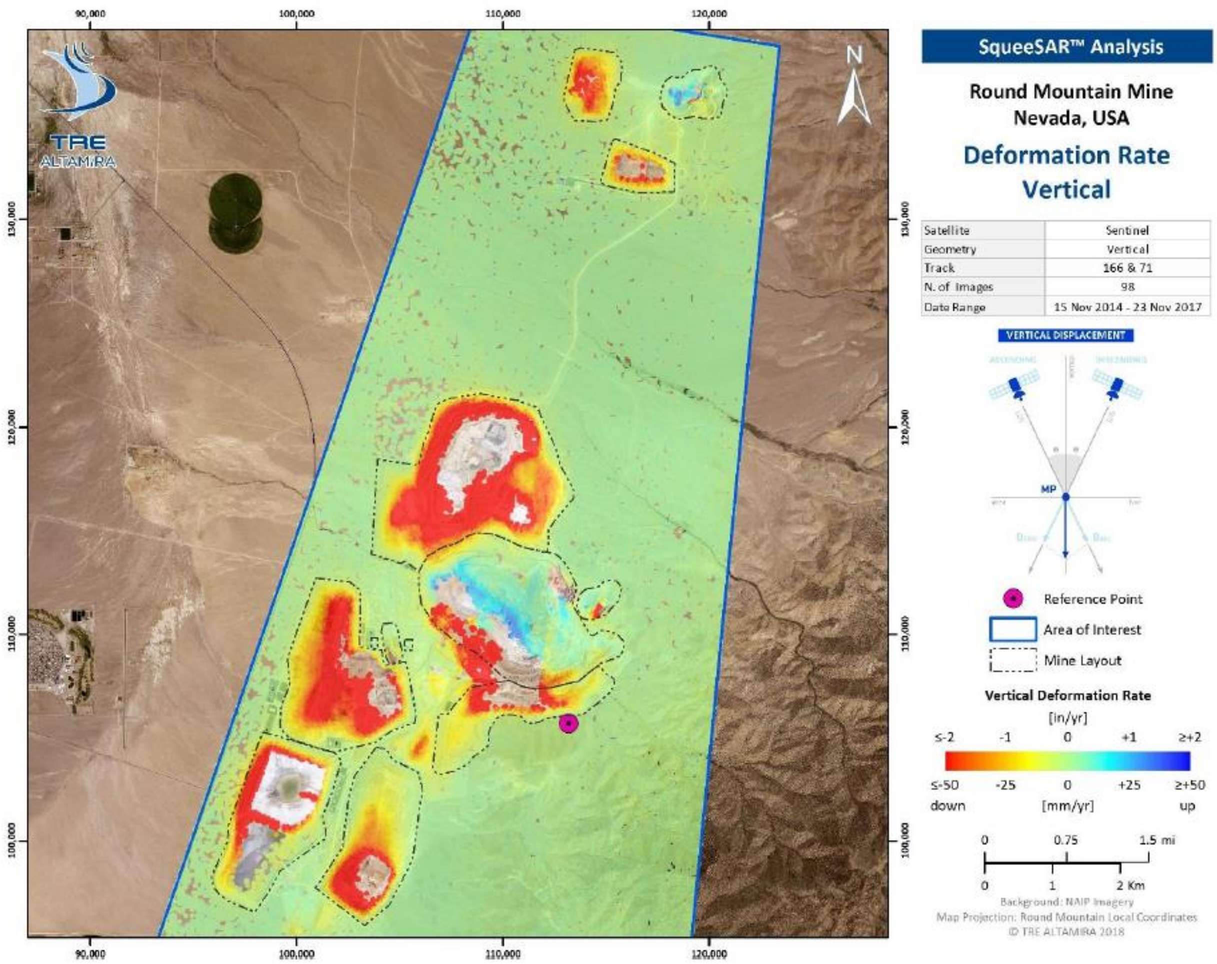
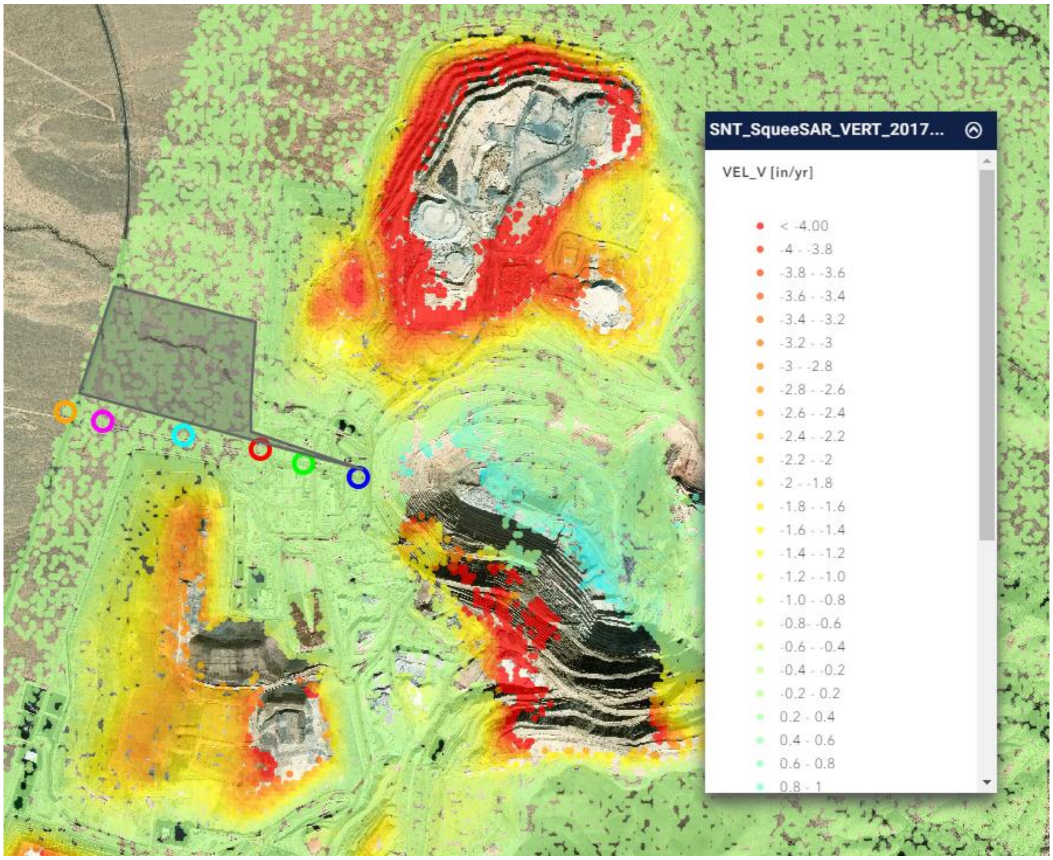



***Figure 8.*** *Vertical deformation rates (2014-2017).*

Deformation data over the same time period (2014-2017) was analyzed as individual points and throughout a defined area directly west of the Round Mountain where mining-related disturbance did not occur. If subsidence-related movements as result of groundwater depletion were present, this area, as shown in Figure 9, is where surface deformation measurements would be expected to be most prominent. As shown in Figures 10 and 11, individual and average (cumulative) time series displacement data west of the pit indicate no significant surface deformation.



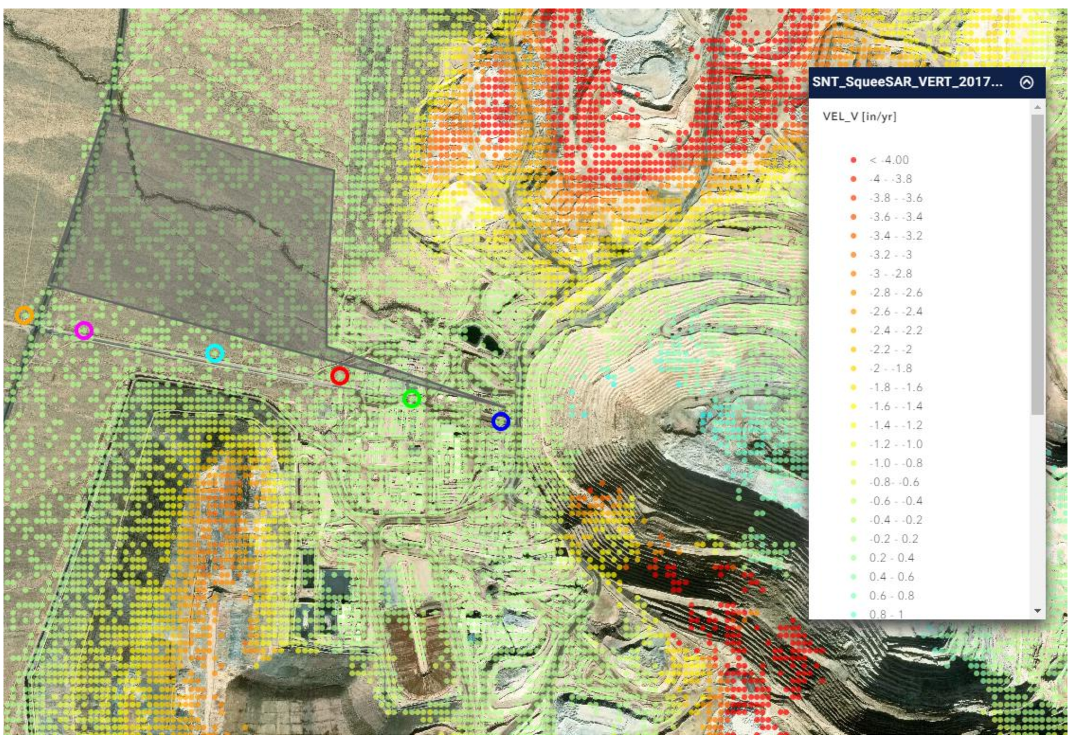




***Figure 9.*** *Time series line of points and (polygon) area west of Round Mountain well field; deformation data depicted in the following Figures. Deformation rates (2014-2017).*

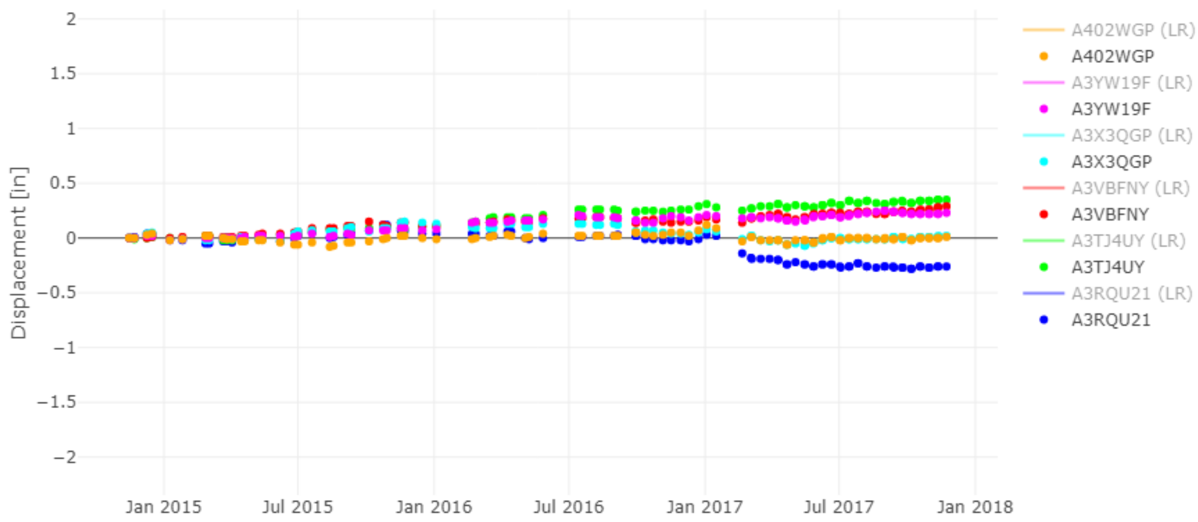



***Figure 10.*** *Cumulative displacement time series points west of Round Mountain well field. Deformation rates (2014-2017).*

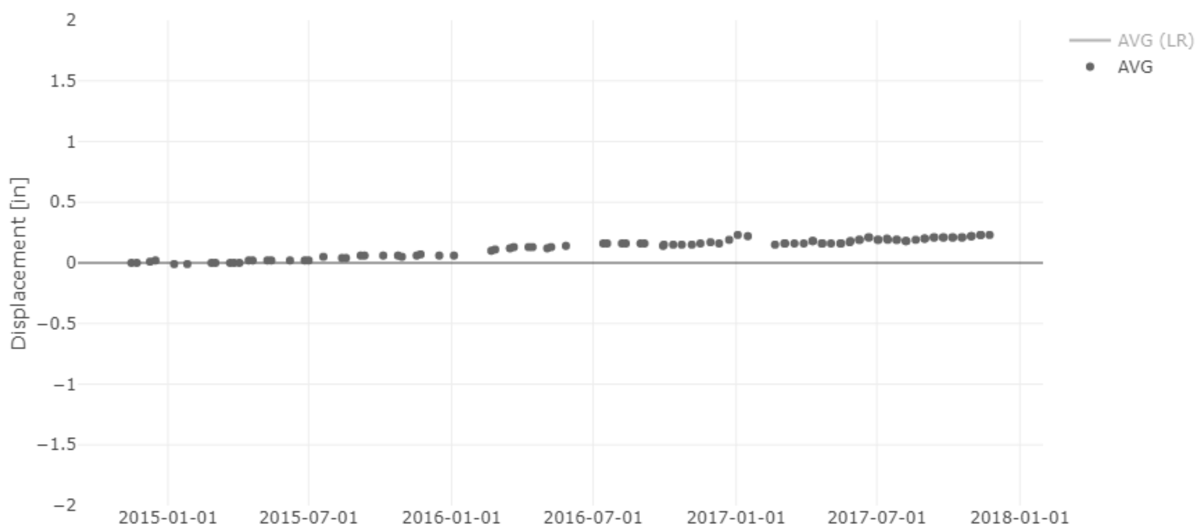



***Figure 11.*** *Cumulative displacement time series average over (polygon) area shown in Figure 10; area west of Round Mountain well field. Deformation rates (2014-2017).*

### 6.2.1 SqueeSAR Monitoring Results for 2021

InSAR monitoring continued throughout 2021 with data reporting available through December 2021 as of the date of this report. Deformation data from November 2020 – December 2021 was analyzed spatially as individual (time-series) points defined along a line of points on the main Round Mountain mine entrance road, extending directly west where mining-related disturbance did not occur and continuing along the Jett Canyon (County) Road toward the center of the Big Smoky Valley basin. If subsidence-related movements as result of groundwater depletion were present, this area, as shown in Figure 12, is where surface deformation measurements are expected to be most prominent. As shown in Figures 12 and 13, the (blue) data point closest to the pit shows the greatest vertical deformation with approximately 0.4 inches positive (downward) deformation, while all points further to the west reflect little or negative deformation (upward) with greater distance from the pit. Overall, individual and average (cumulative) time series data west of the pits indicate no significant surface deformation, which is consistent with the lack of on-the-ground evidence of subsidence.

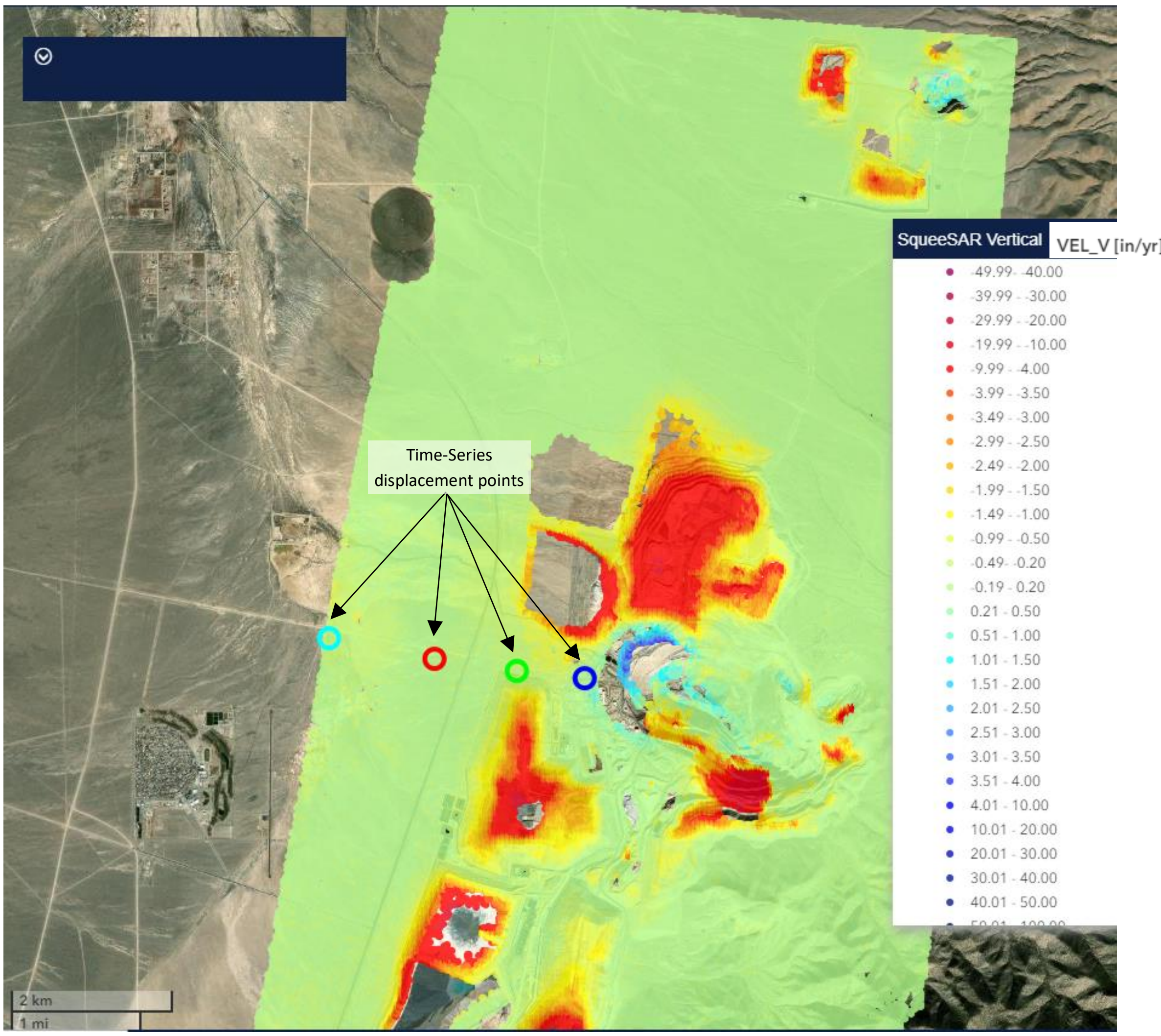



***Figure 12.*** *Overview from 2021 InSAR monitoring with time series line of points west of Round Mountain well field; deformation data depicted in the following Figure. Spatial deformation rates displayed are based on monitoring from November 2019 through December 2021.*

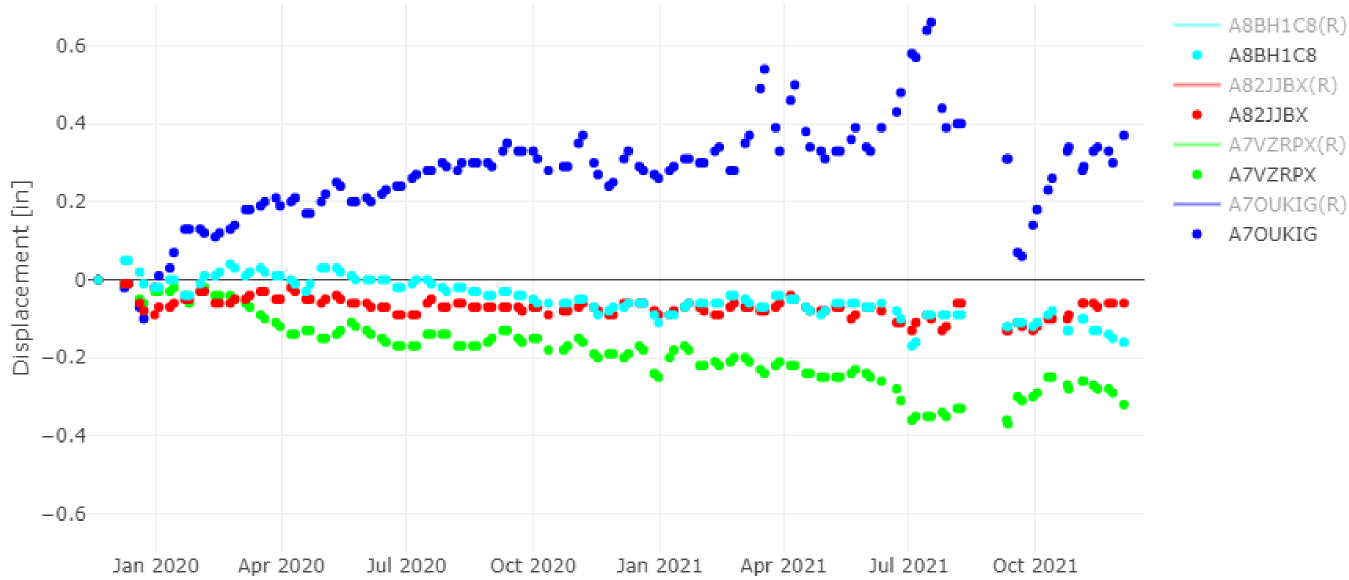



***Figure 13.*** *Cumulative displacement time series displacement points west of Round Mountain well field based on spatial deformation rates displayed in Figure 12 from November 2020 through December 2021.*

## 7.0 References

Giannico C., A. Ferretti, S. Alberti, L. Jurina, M. Ricci, A. Sciotti, I. D. Tecnica, and U. O. Gallerie. 2013. "Application of Satellite Radar Interferometry for Structural Damage Assessment and Monitoring." Life-Cycle and Sustainability of Civil Infrastructure Systems, edited by A. Strauss, D. Frangopol, and K, Bergmeiste, 2012: 2094-2101.

TRE Altamira, 2019. InSAR Analysis of Historical Ground Deformation Over Round Mountain, Nevada. REF: J017-414-CA REP 1.0. January 10, 2019.

WSP Parsons Brinkerhoff (WSP-PB), 2017. Phase W Hydrogeologic Baseline and Impacts Assessment Report, Round Mountain Gold Corporation. Revision 2. August 28, 2017.

# 8.0 Closing

This report has been prepared by RMGC to meet requirements specified in our approved Monitoring Plan and existing water rights permits issued by the Nevada State Engineer. This report provides a summary of observations and measurements related to the Mine's diversions for beneficial use of water resources in the Big Smoky Valley hydrographic basin.

Please contact the undersigned should you have any questions.

Sincerely,

Kinross- Round Mountain Gold Corporation

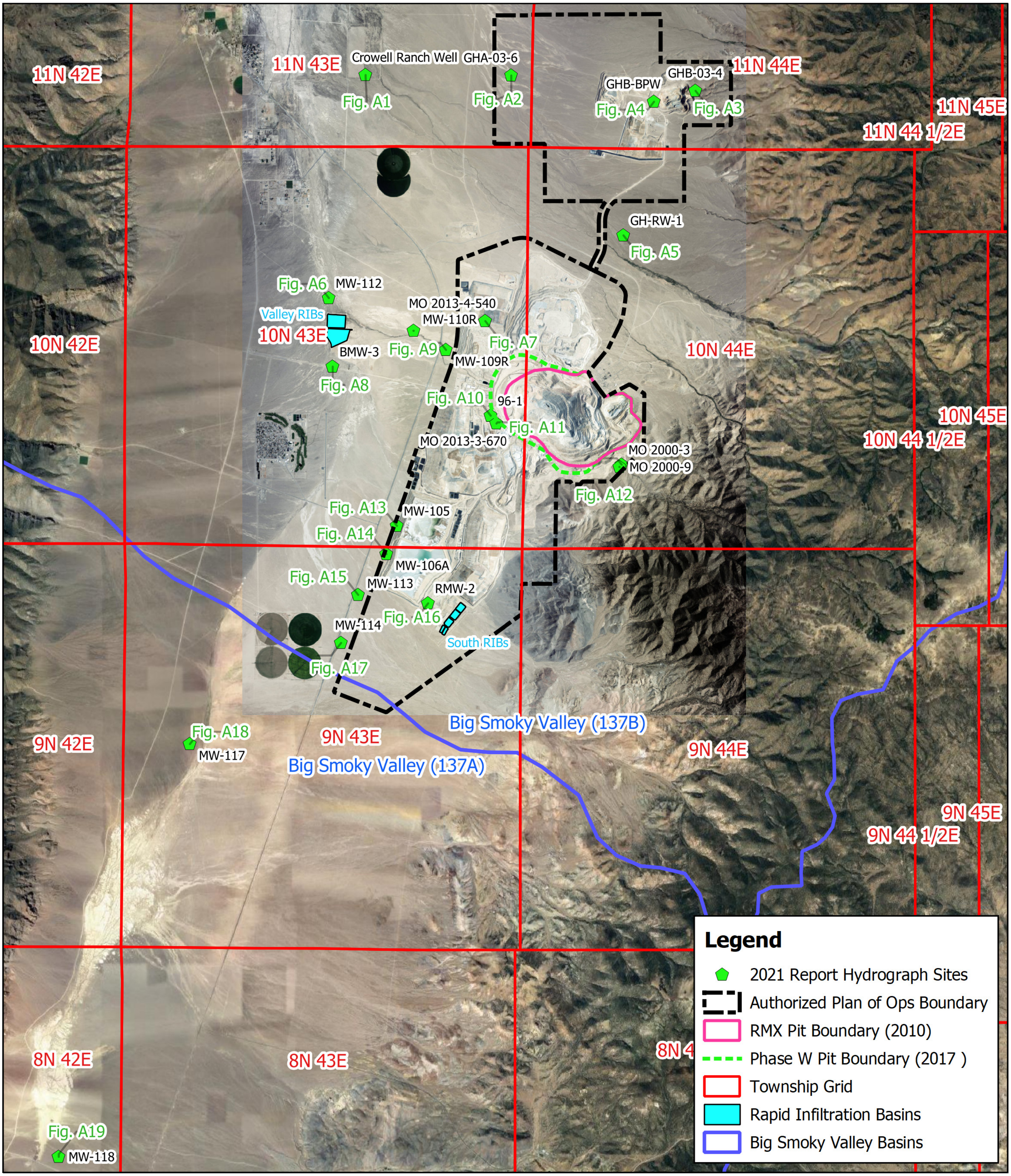
Jay Dixon, P.E., WRS
*Chief Hydrologist*

Kevin Howerton
*Principal Hydrologist*

Attachments:
Appendices A - C
Plates 1 – 4

# APPENDIX A

## Select Groundwater Hydrographs



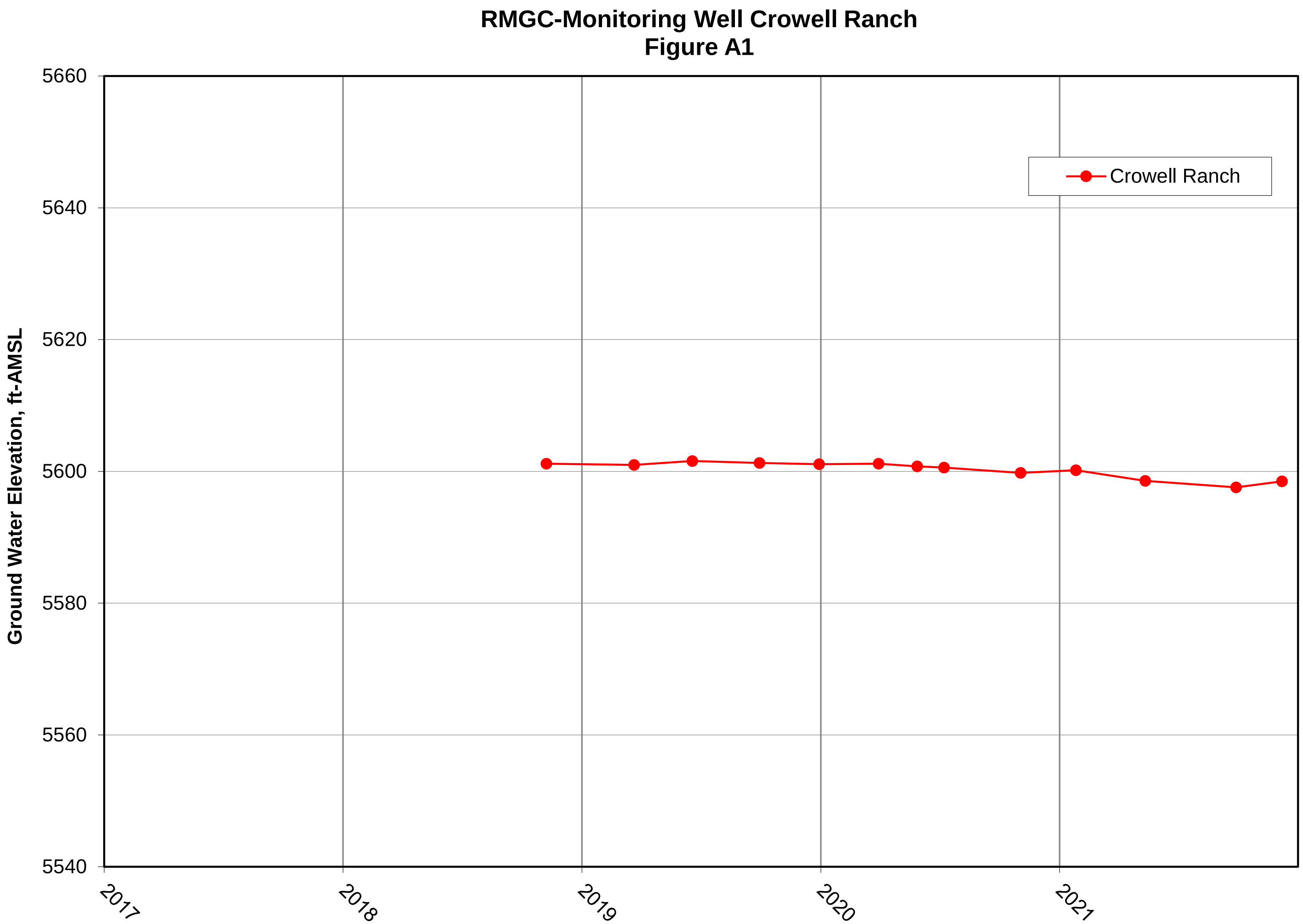

| RMGC 2021 ANNUAL REPORT | KINROSS Round Mountain | REPORT HYDROGRAPH SITES |
|---|---|---|

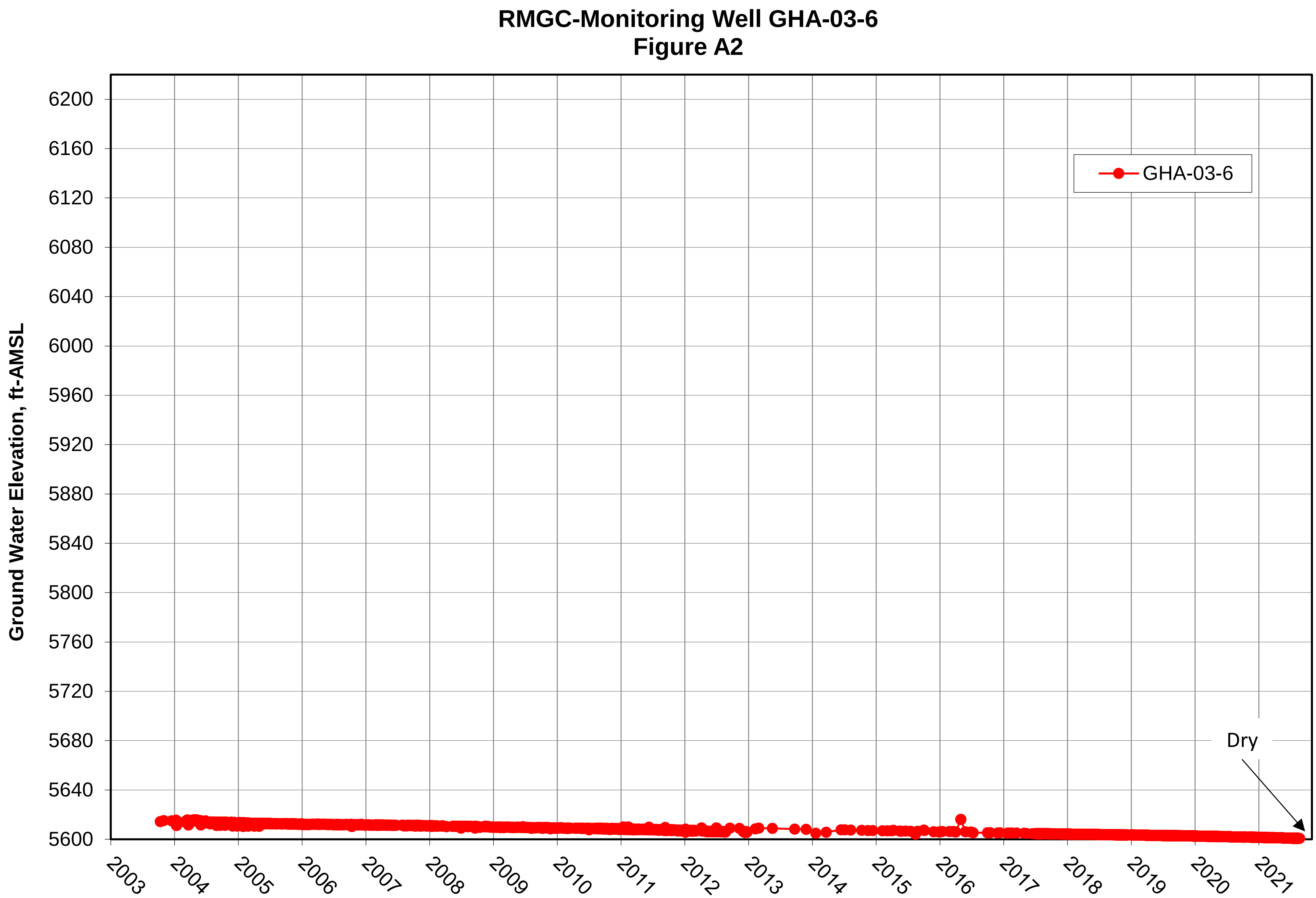
GRAPHIC SCALE 0 1 2 3 4 mi

DRAWN BY: J. DIXON, P.E.

DATE: 1/27/2022

DRAWING NO. A-1


RMGC-Monitoring Well Crowell Ranch
Figure A1
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
5540
2017
2018
2019
2020
2021
Crowell Ranch


RMGC-Monitoring Well GHA-03-6
Figure A2
Ground Water Elevation, ft-AMSL
6200
6160
6120
6080
6040
6000
5960
5920
5880
5840
5800
5760
5720
5680
5640
5600
2003
2004
2005
2006
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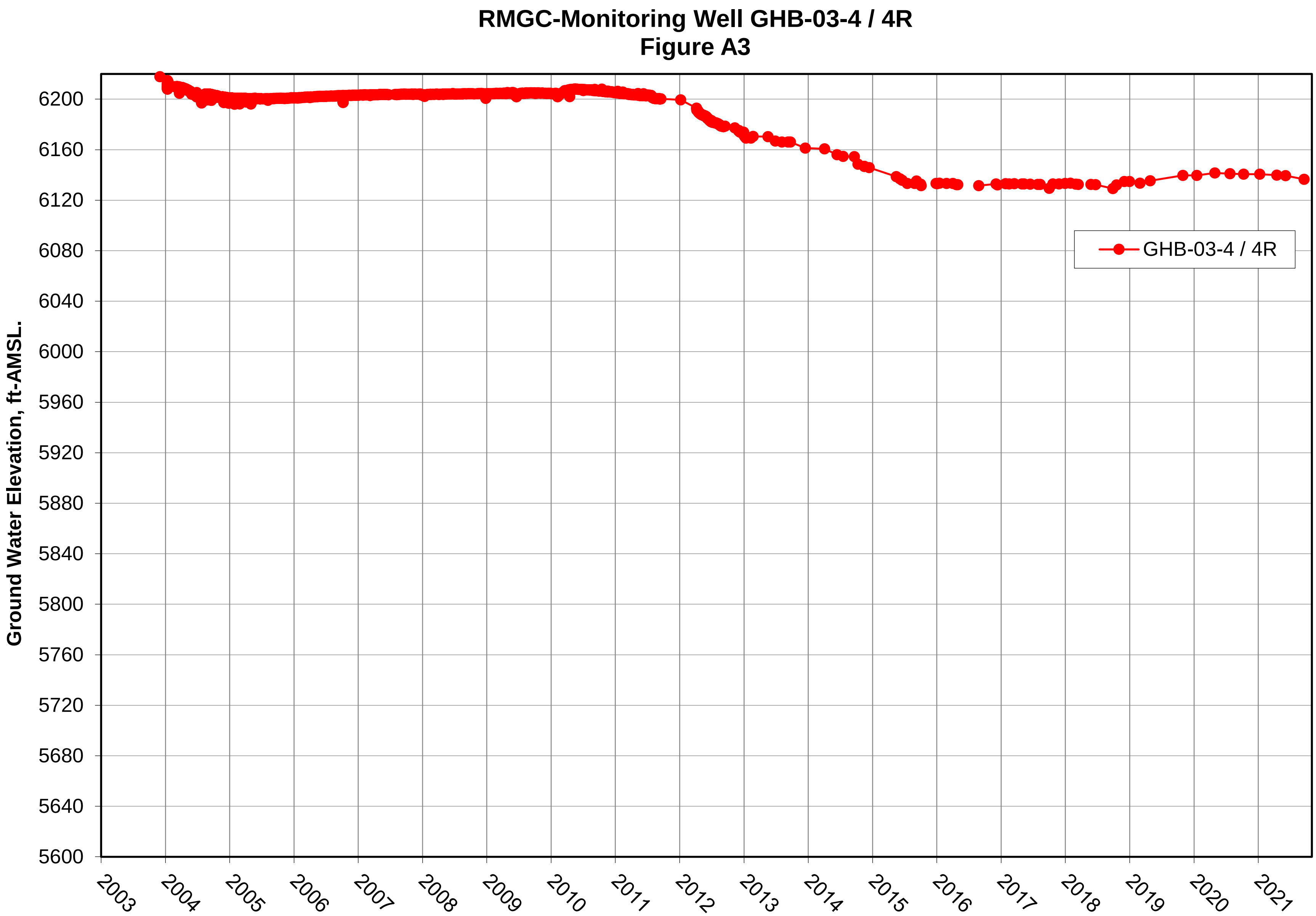
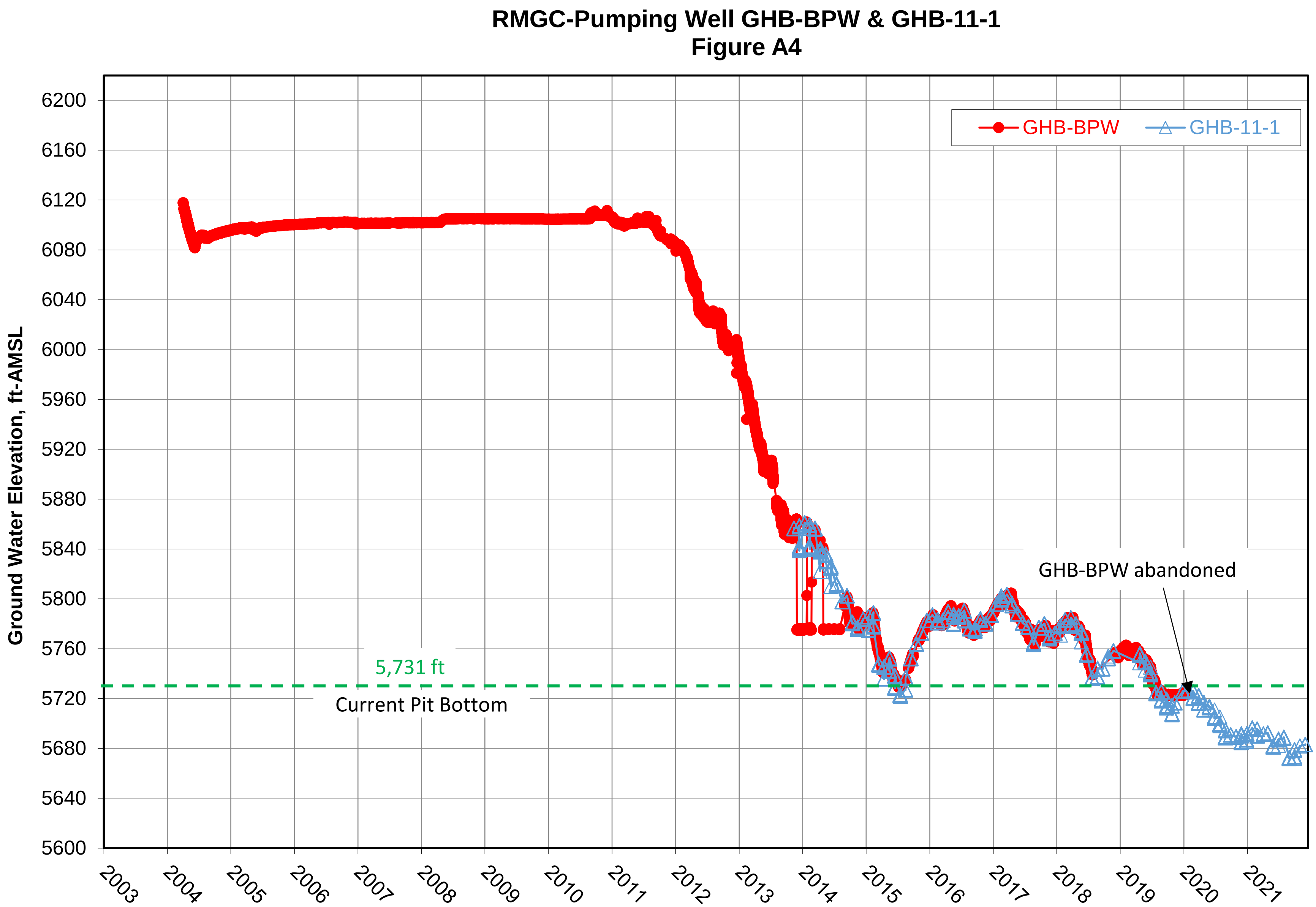
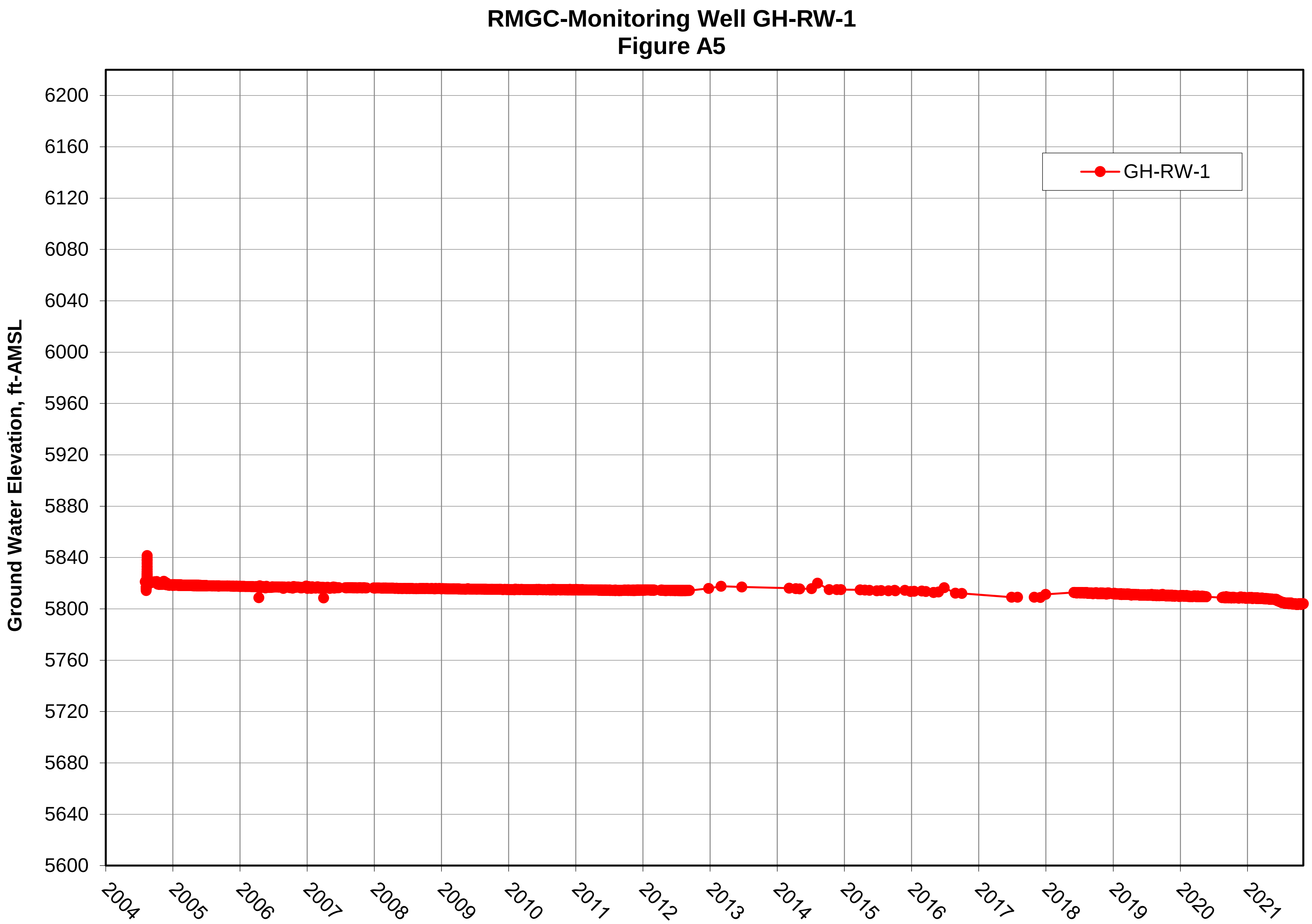
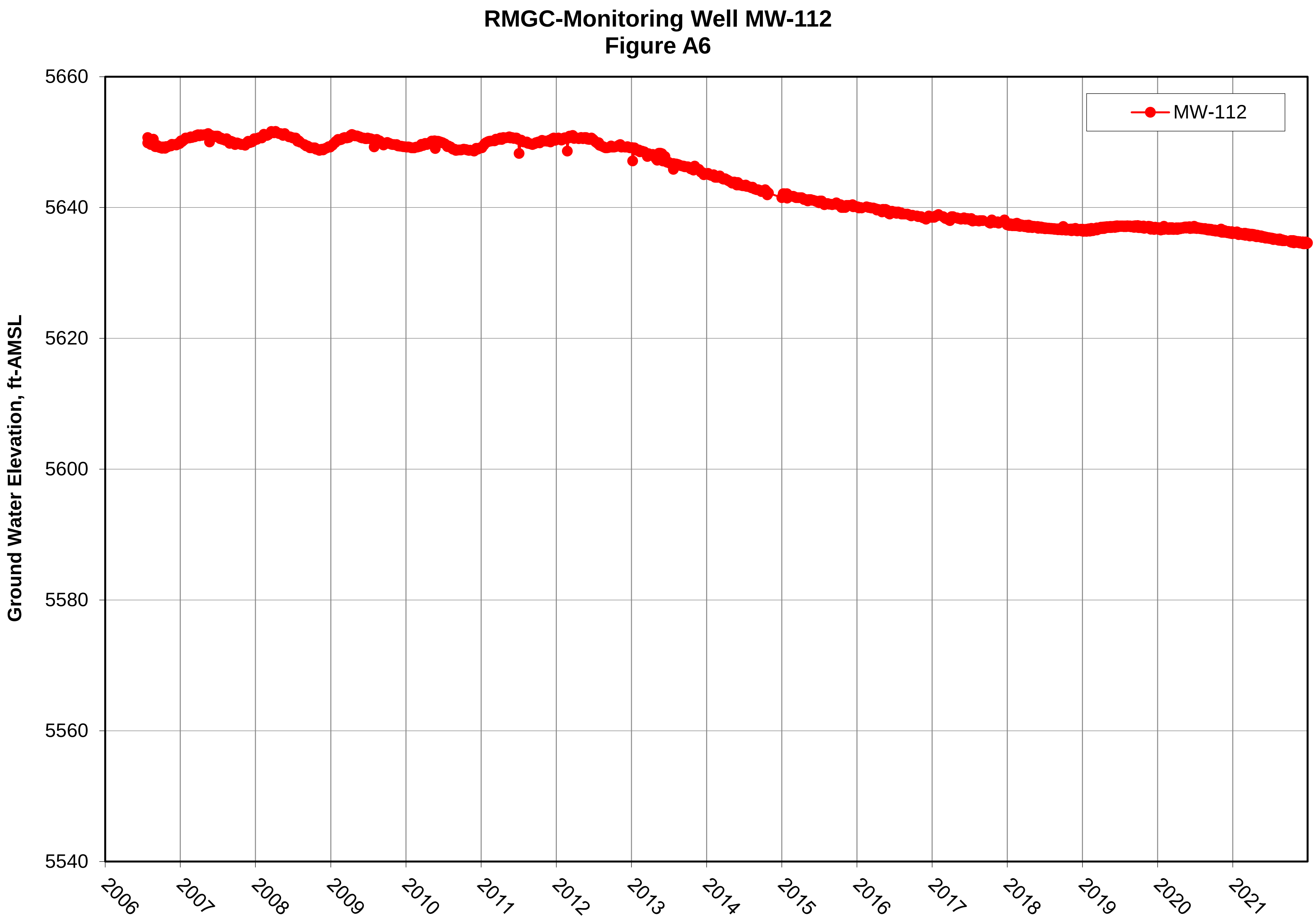
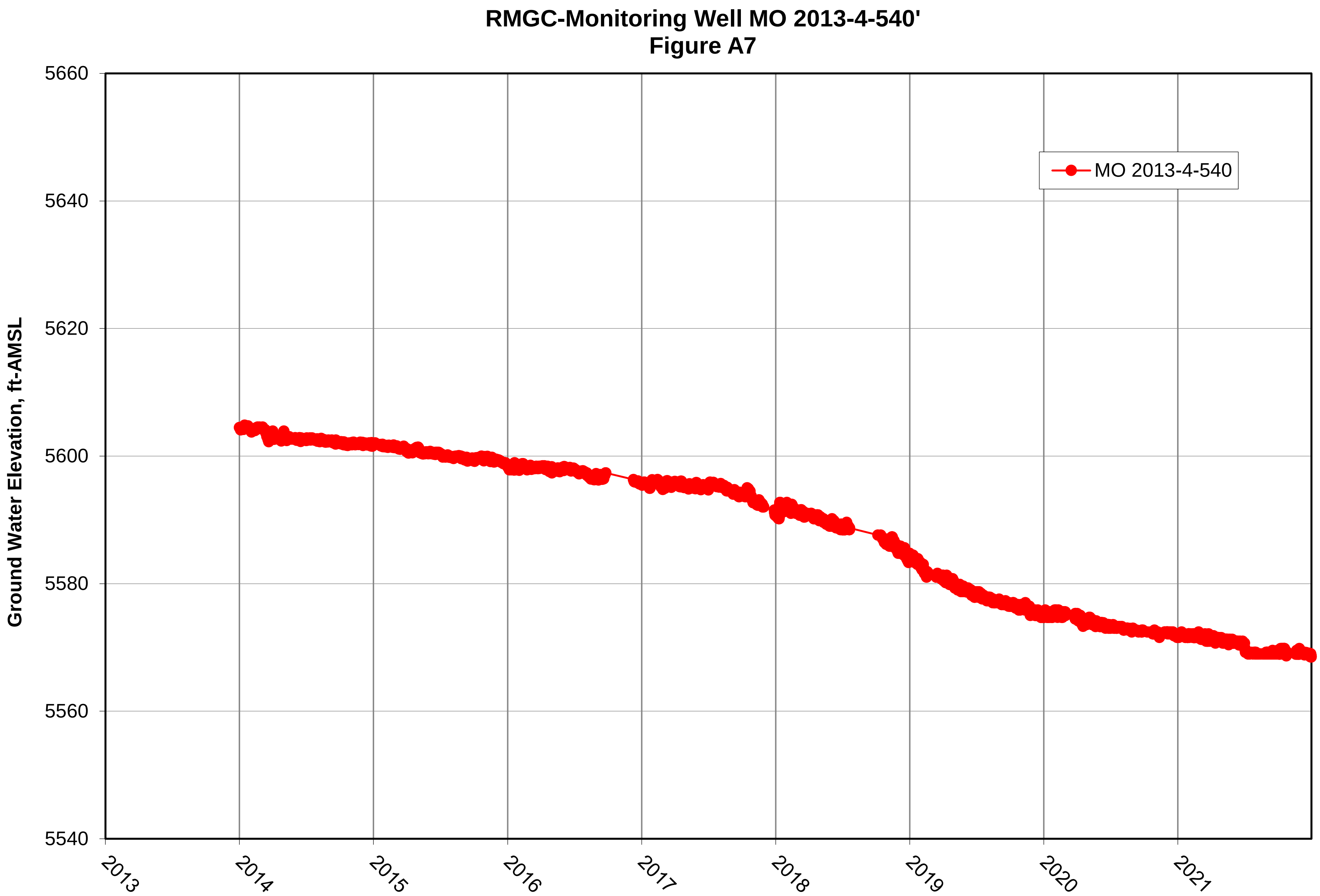
2021
GHA-03-6
Dry


RMGC-Monitoring Well GHB-03-4 / 4R
Figure A3
Ground Water Elevation, ft-AMSL.
6200
6160
6120
6080
6040
6000
5960
5920
5880
5840
5800
5760
5720
5680
5640
5600
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
GHB-03-4 / 4R


RMGC-Pumping Well GHB-BPW & GHB-11-1
Figure A4
GHB-BPW
GHB-11-1
Ground Water Elevation, ft-AMSL
6200
6160
6120
6080
6040
6000
5960
5920
5880
5840
5800
5760
5720
5680
5640
5600
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
GHB-BPW abandoned
5,731 ft
Current Pit Bottom


RMGC-Monitoring Well GH-RW-1
Figure A5
GH-RW-1
Ground Water Elevation, ft-AMSL
6200
6160
6120
6080
6040
6000
5960
5920
5880
5840
5800
5760
5720
5680
5640
5600
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MW-112
Figure A6
MW-112
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
5540
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MO 2013-4-540'
Figure A7
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
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2014
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2016
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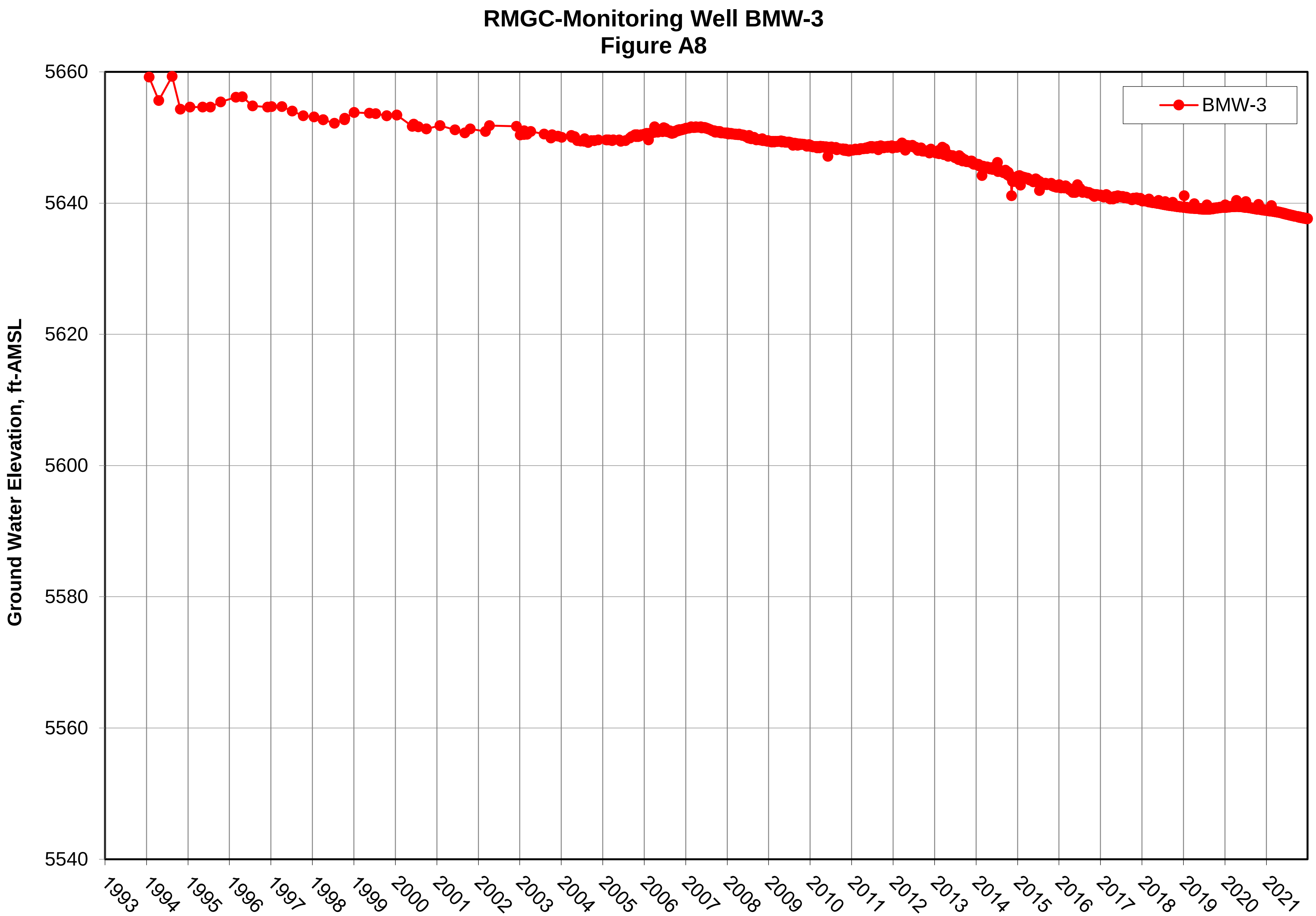
2018
2019
2020
2021
MO 2013-4-540


RMGC-Monitoring Well BMW-3
Figure A8
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
5540
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
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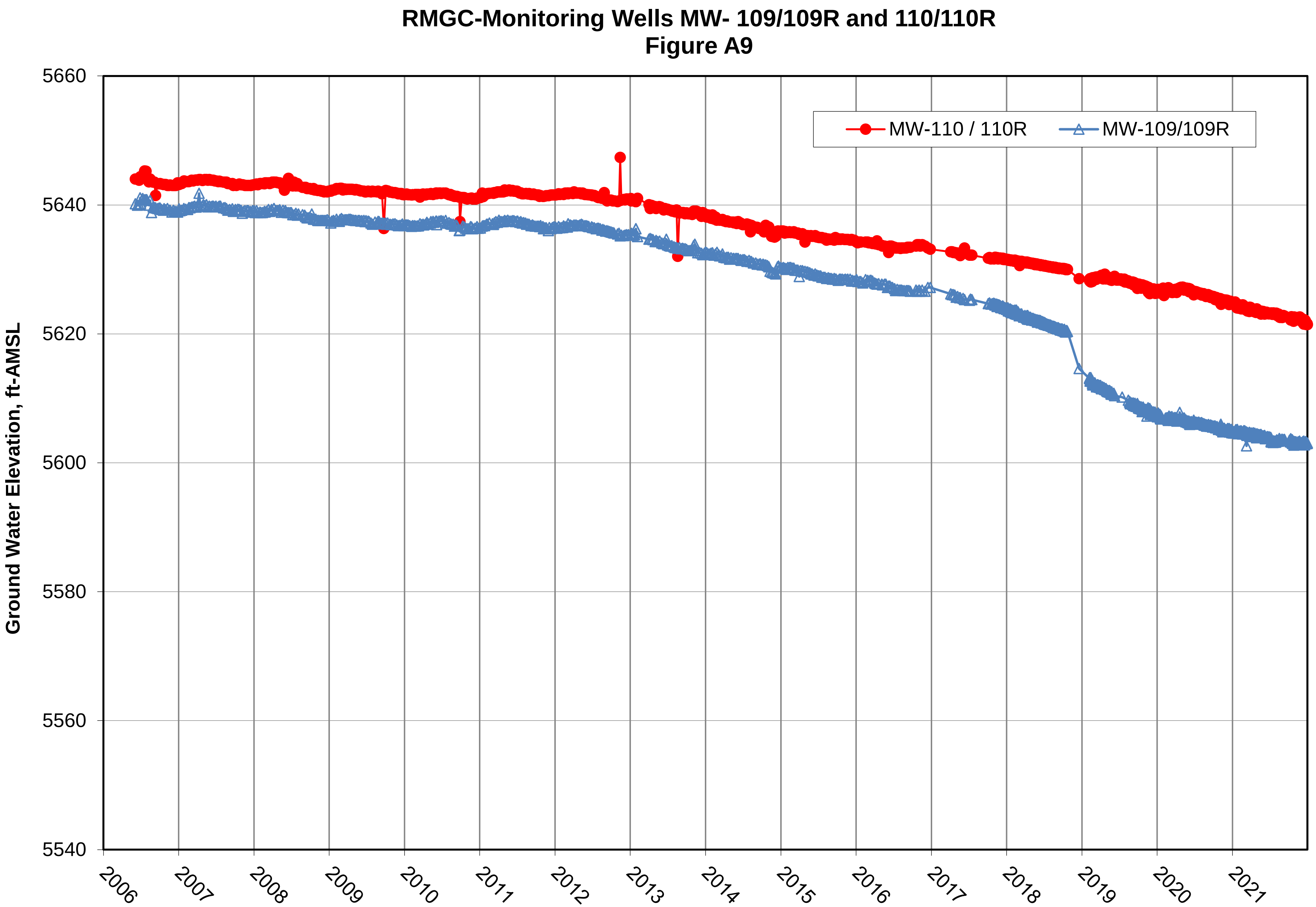
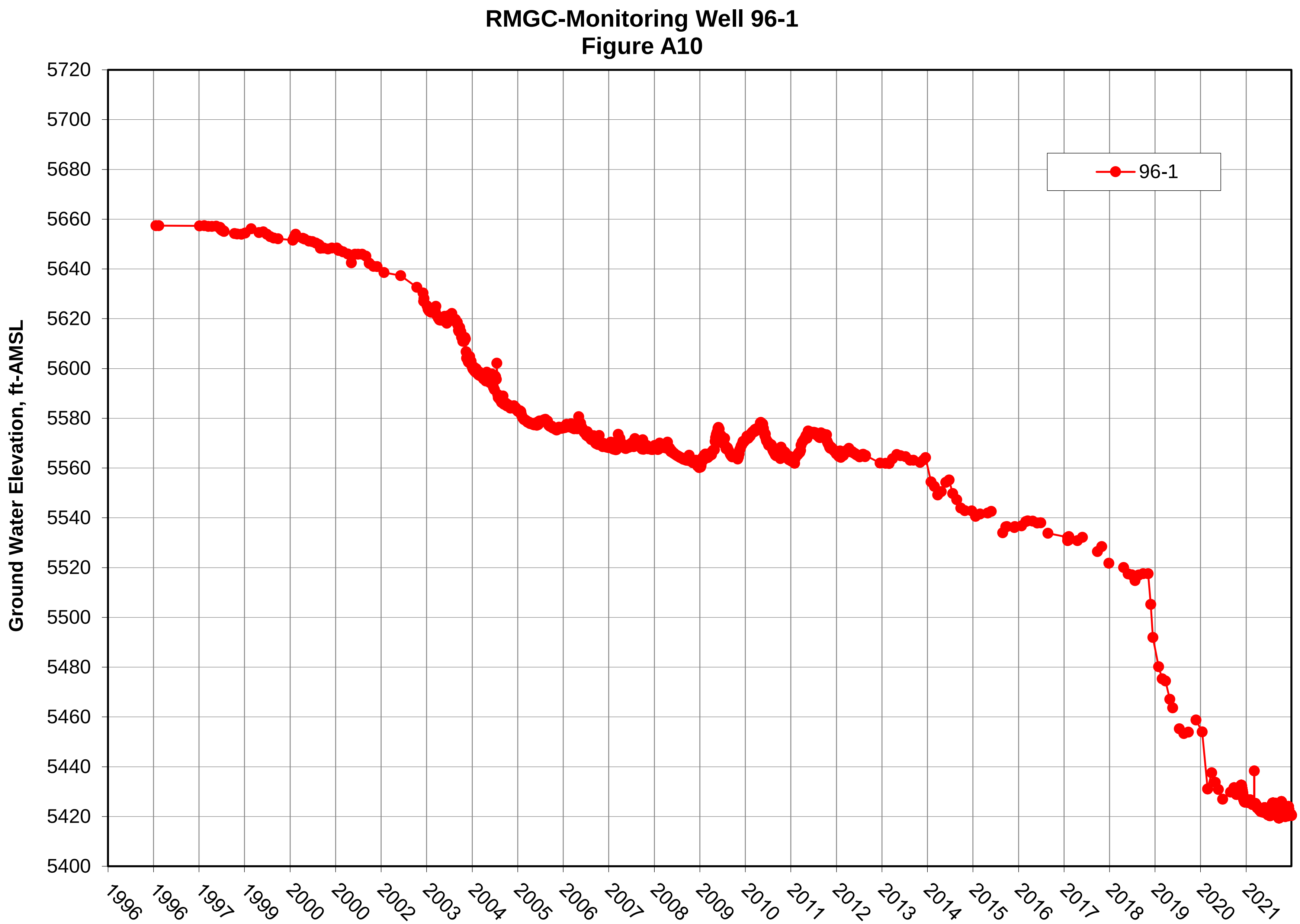
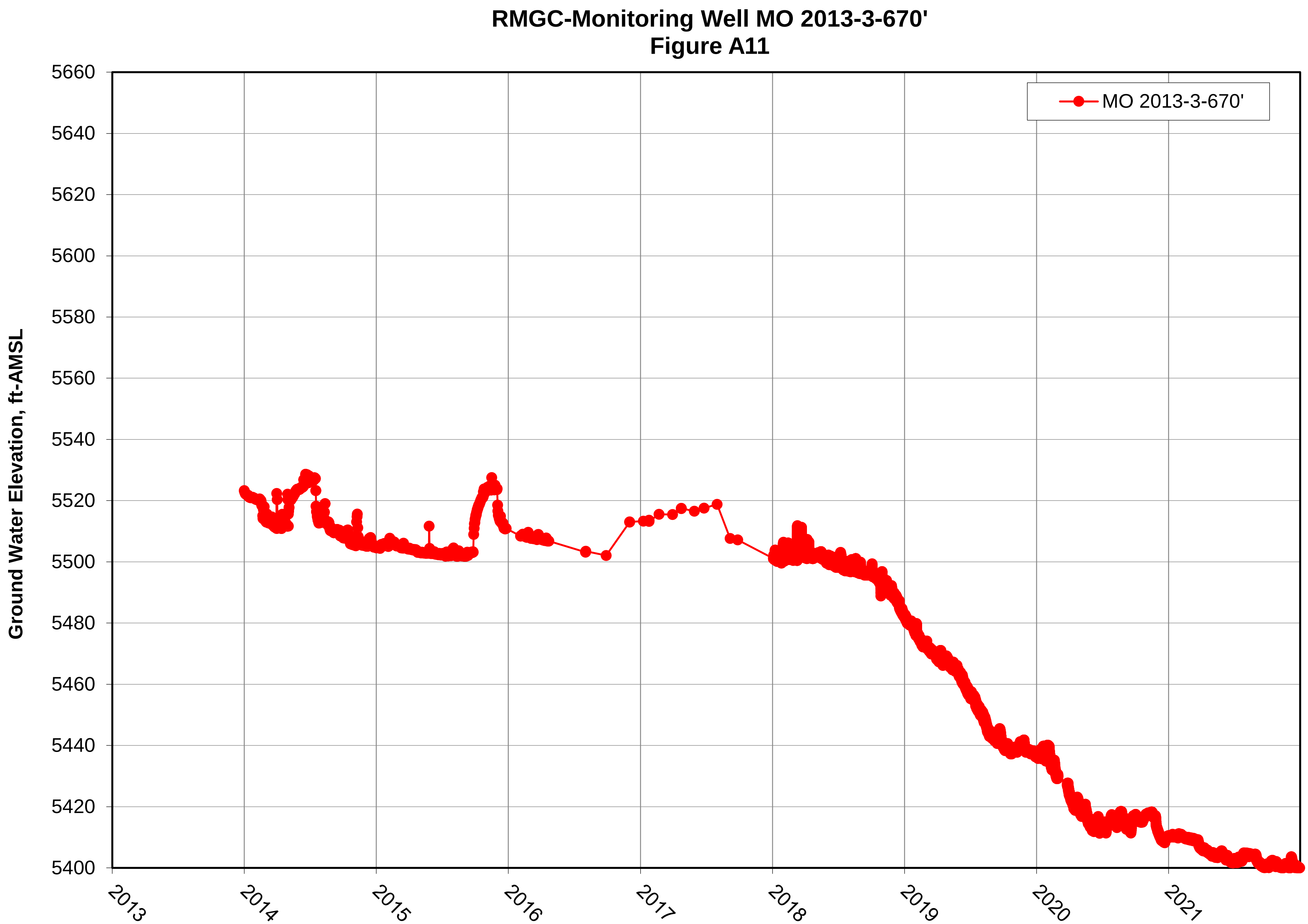
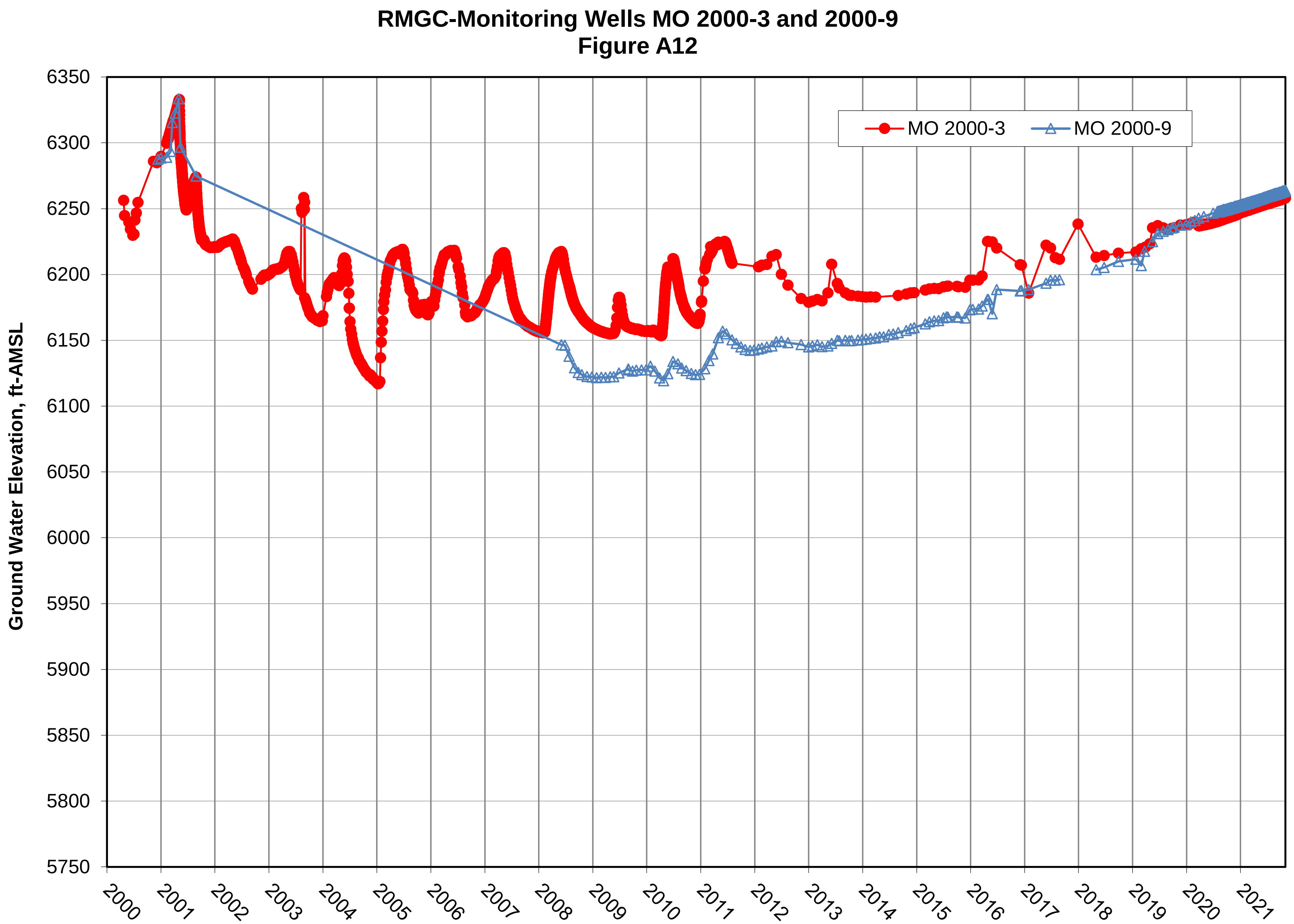
2019
2020
2021
BMW-3


RMGC-Monitoring Wells MW- 109/109R and 110/110R
Figure A9
MW-110 / 110R
MW-109/109R
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
5540
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well 96-1
Figure A10
96-1
Ground Water Elevation, ft-AMSL
5720
5700
5680
5660
5640
5620
5600
5580
5560
5540
5520
5500
5480
5460
5440
5420
5400
1996
1996
1997
1999
2000
2000
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MO 2013-3-670'
Figure A11
MO 2013-3-670'
Ground Water Elevation, ft-AMSL
5660
5640
5620
5600
5580
5560
5540
5520
5500
5480
5460
5440
5420
5400
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Wells MO 2000-3 and 2000-9
Figure A12
MO 2000-3
MO 2000-9
Ground Water Elevation, ft-AMSL
6350
6300
6250
6200
6150
6100
6050
6000
5950
5900
5850
5800
5750
2000
2001
2002
2003
2004
2005
2006
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2008
2009
2010
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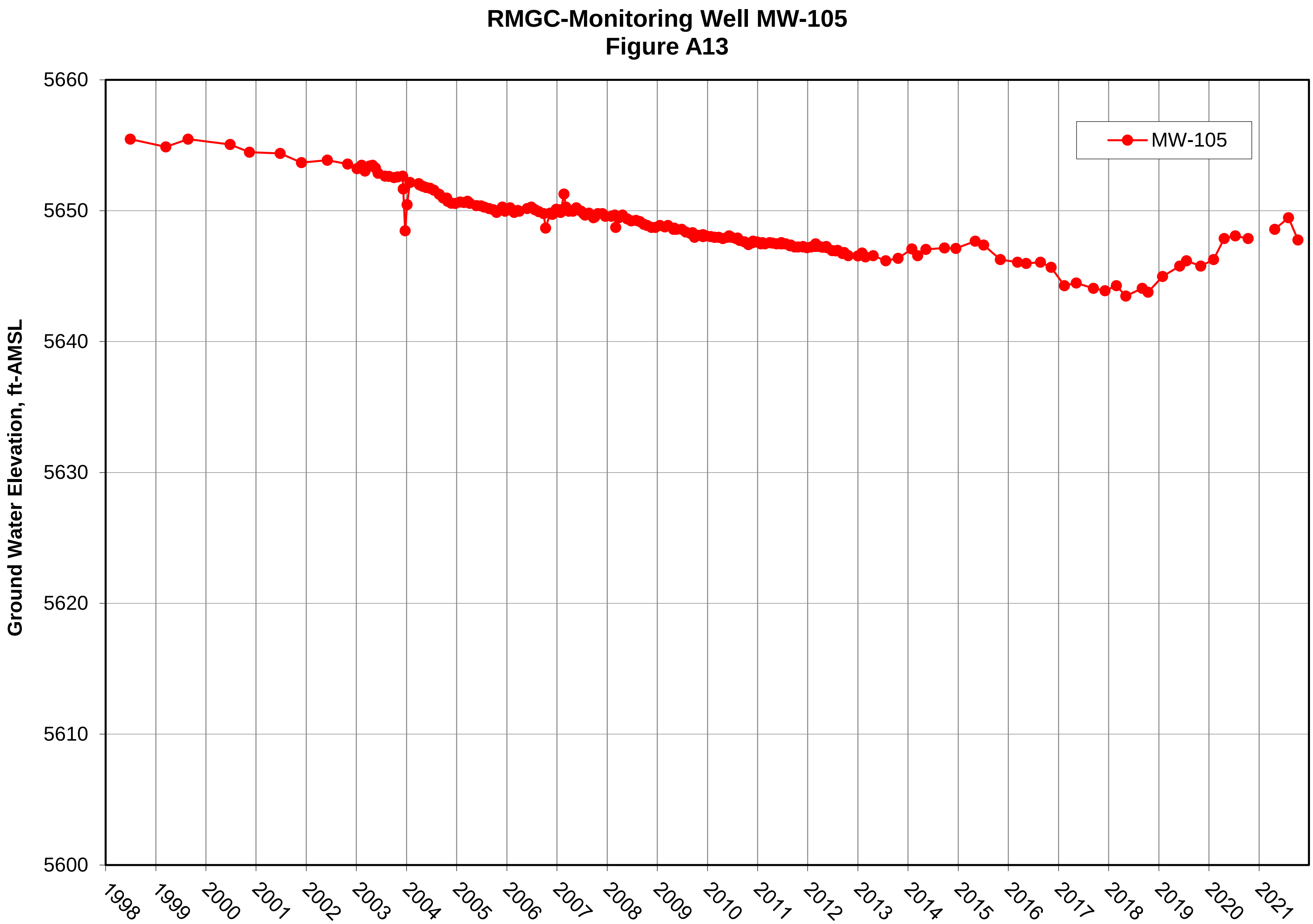
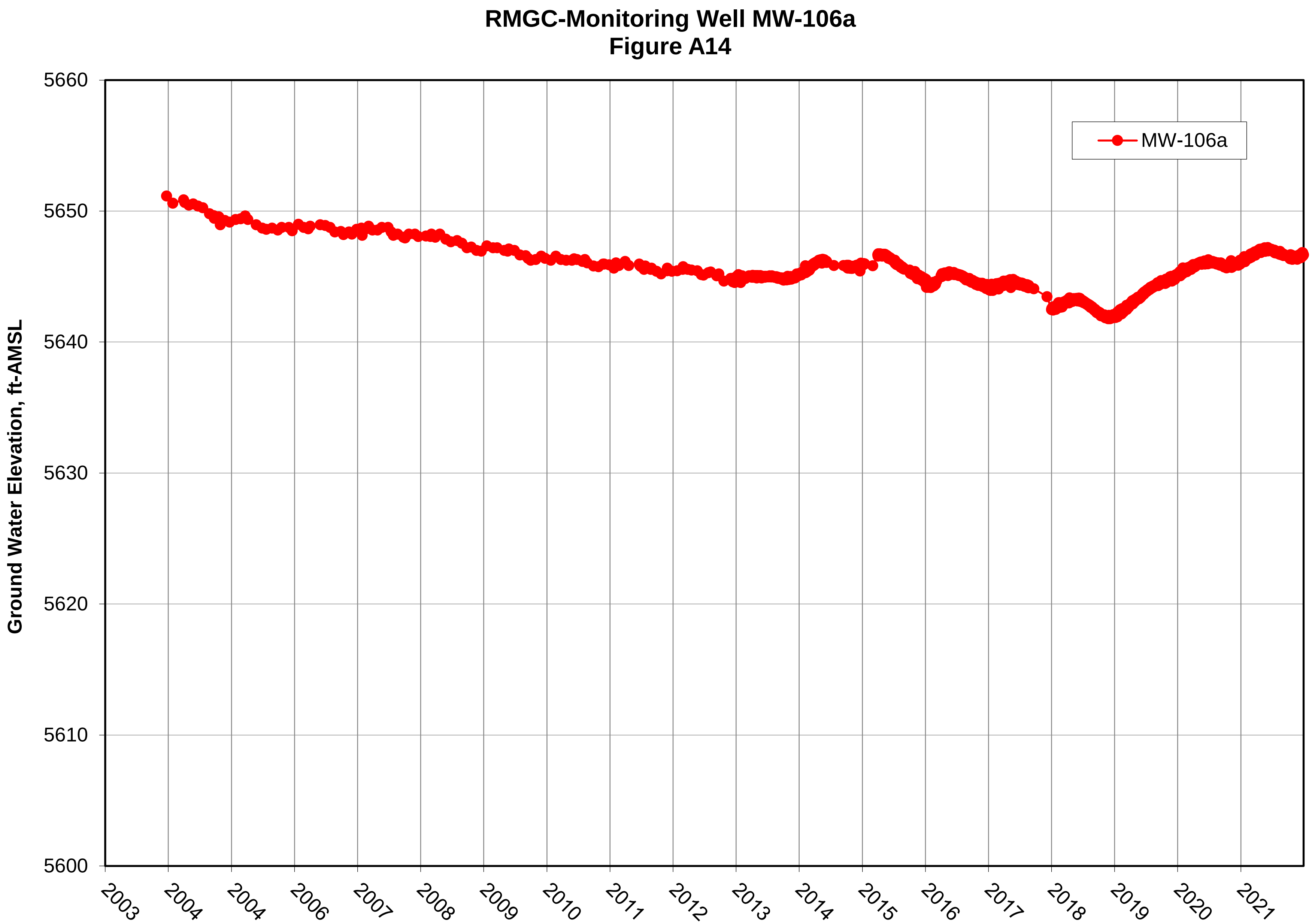
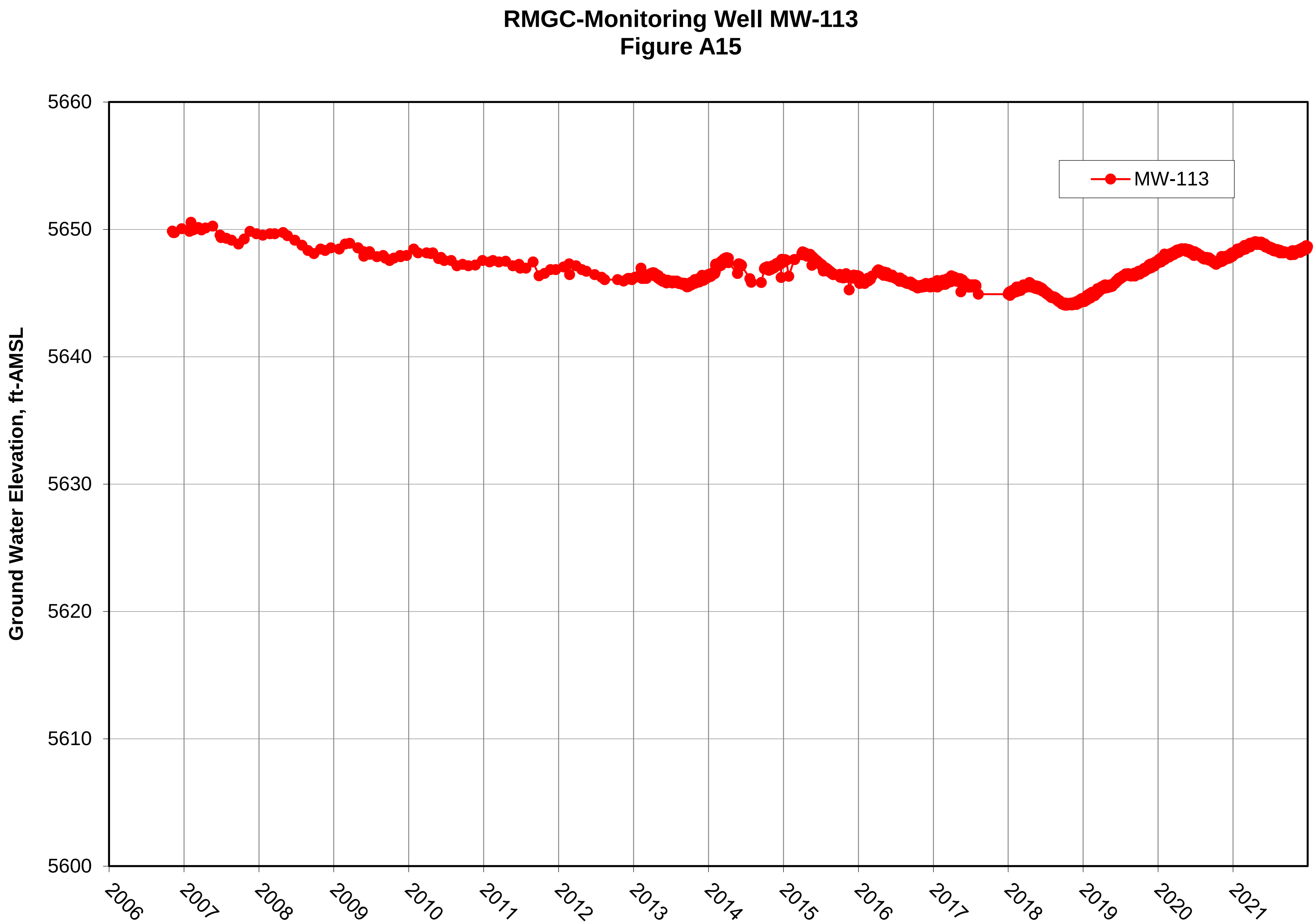
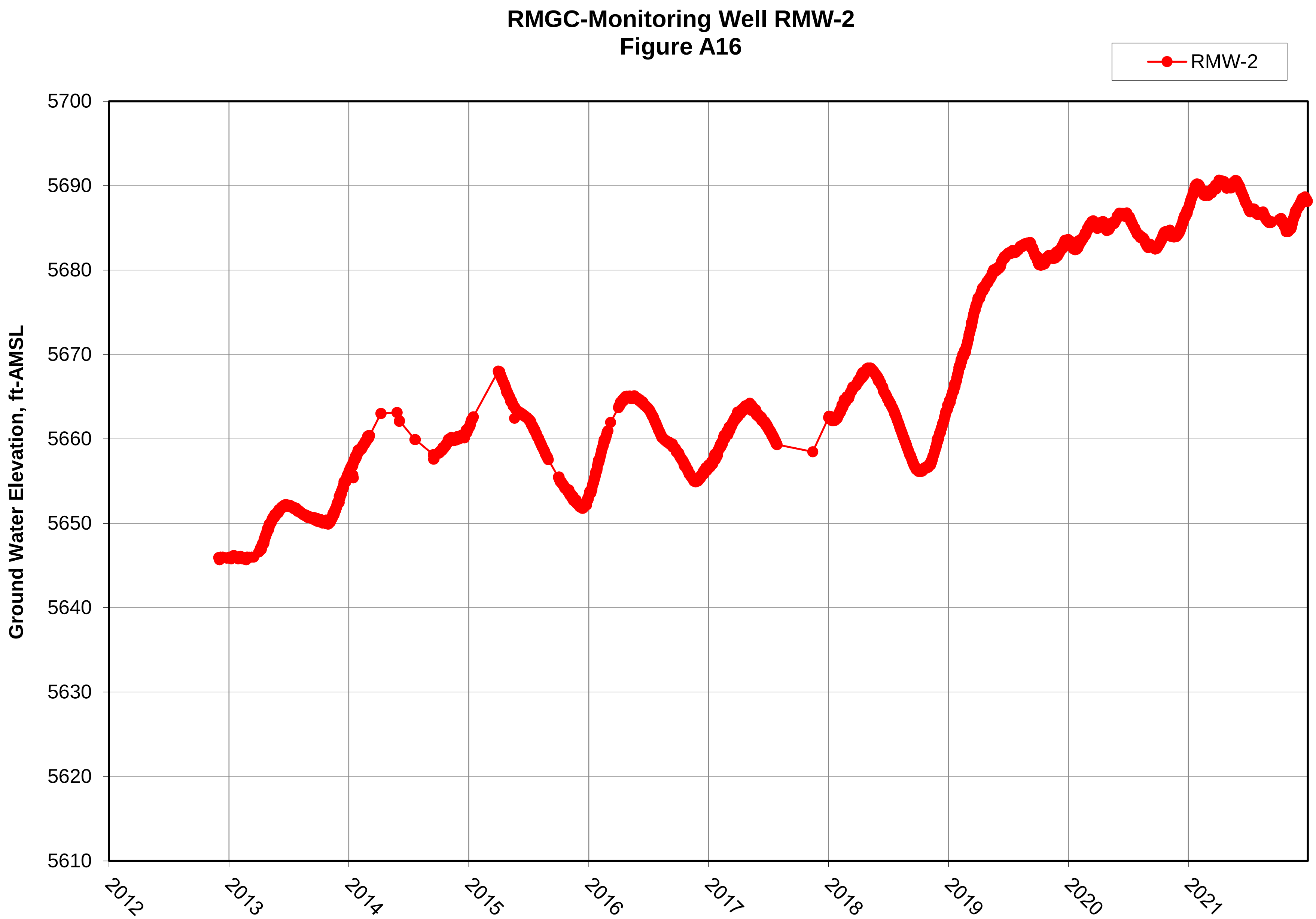
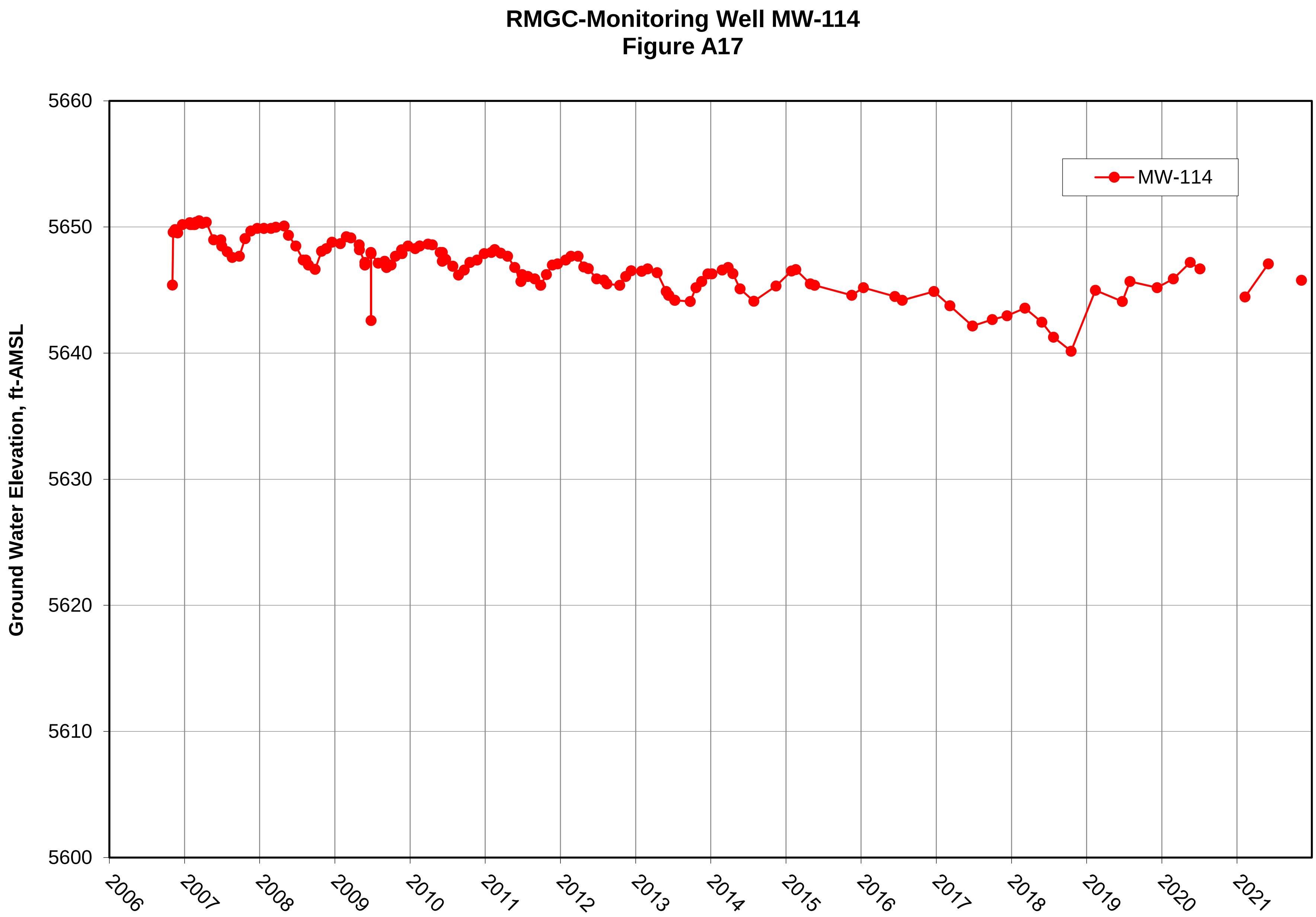
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MW-105
Figure A13
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
MW-105


RMGC-Monitoring Well MW-106a
Figure A14
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
MW-106a
2003
2004
2004
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MW-113
Figure A15
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
MW-113


RMGC-Monitoring Well RMW-2
Figure A16
RMW-2
Ground Water Elevation, ft-AMSL
5700
5690
5680
5670
5660
5650
5640
5630
5620
5610
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021


RMGC-Monitoring Well MW-114
Figure A17
MW-114
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
2006
2007
2008
2009
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2011
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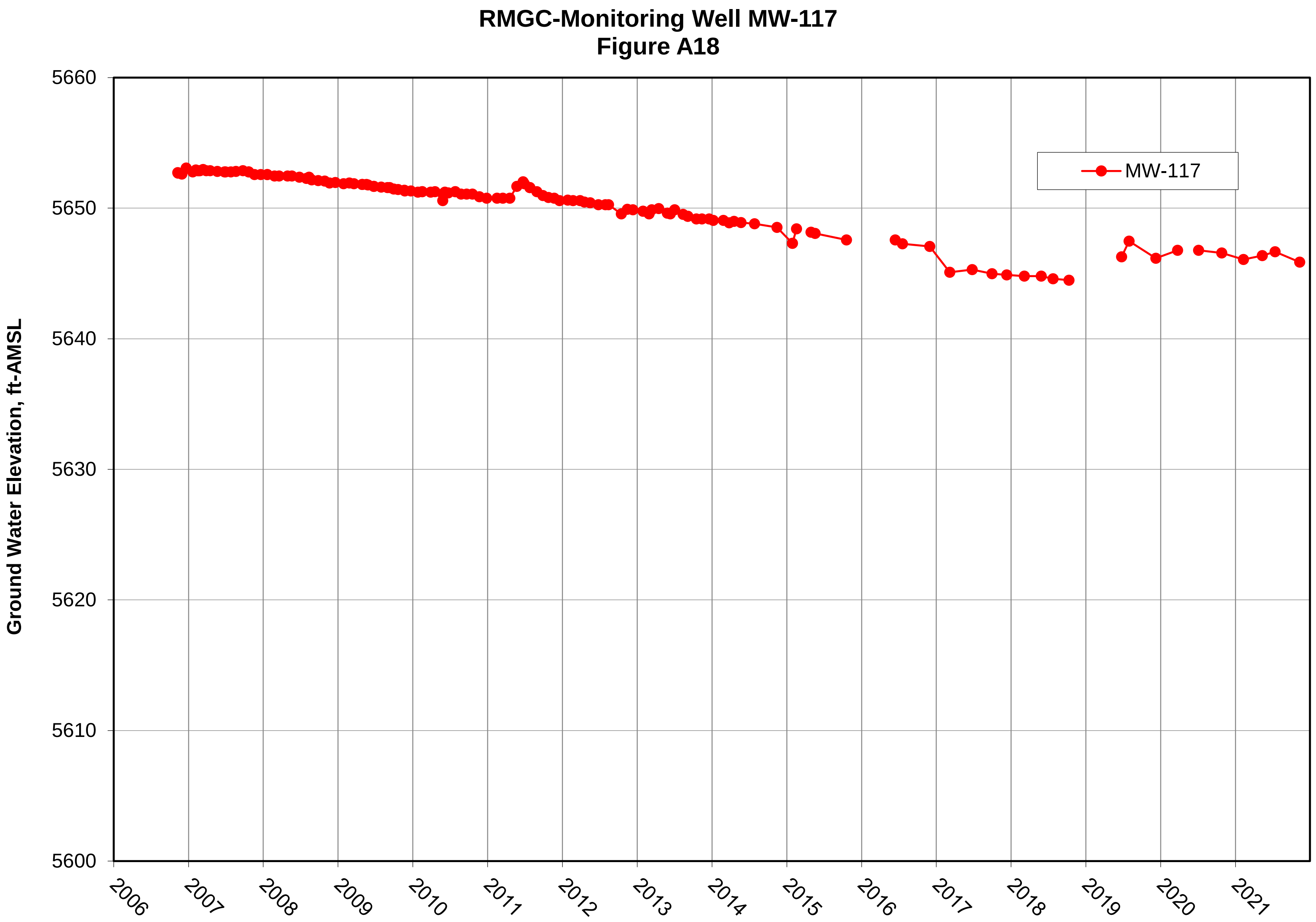
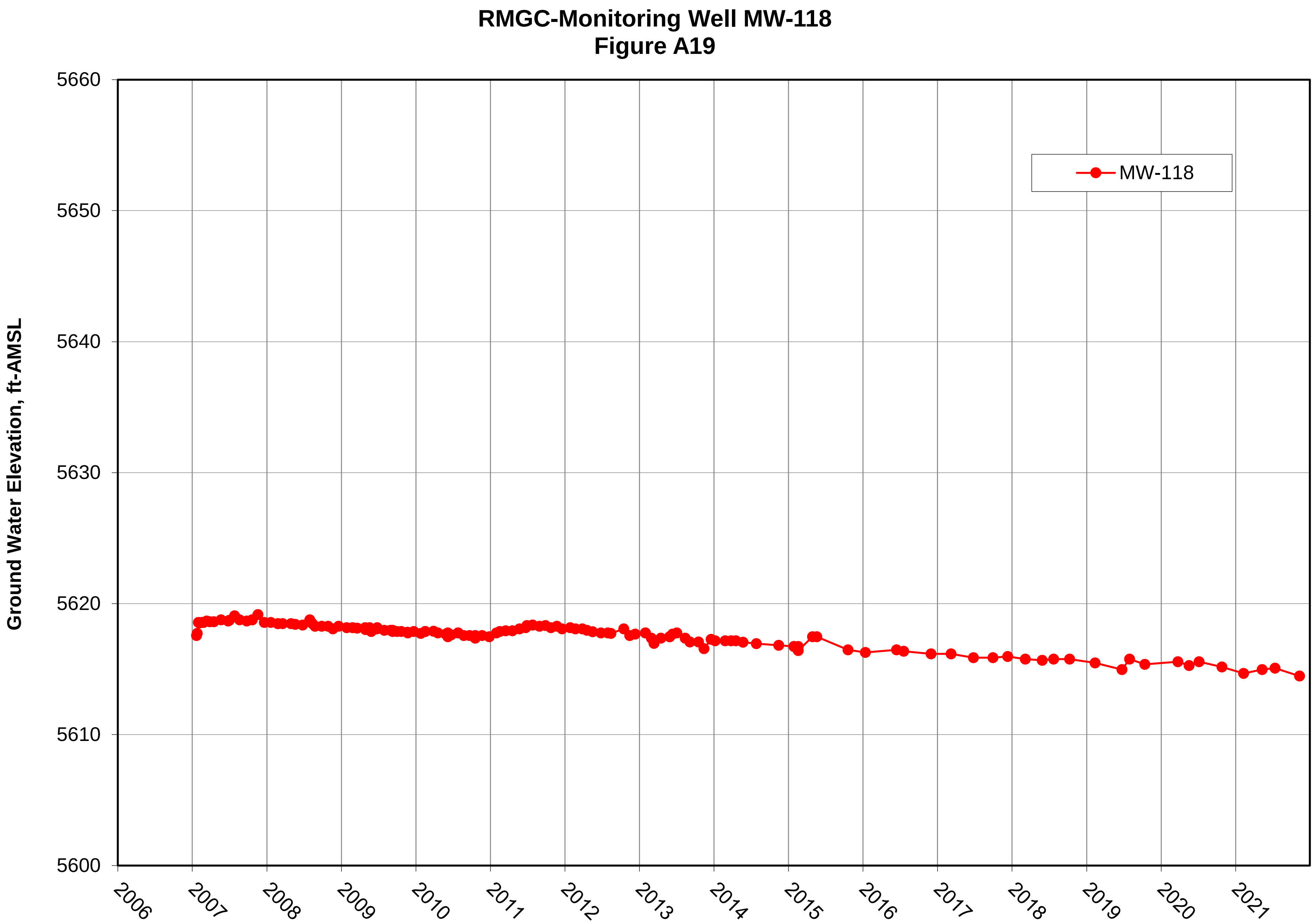
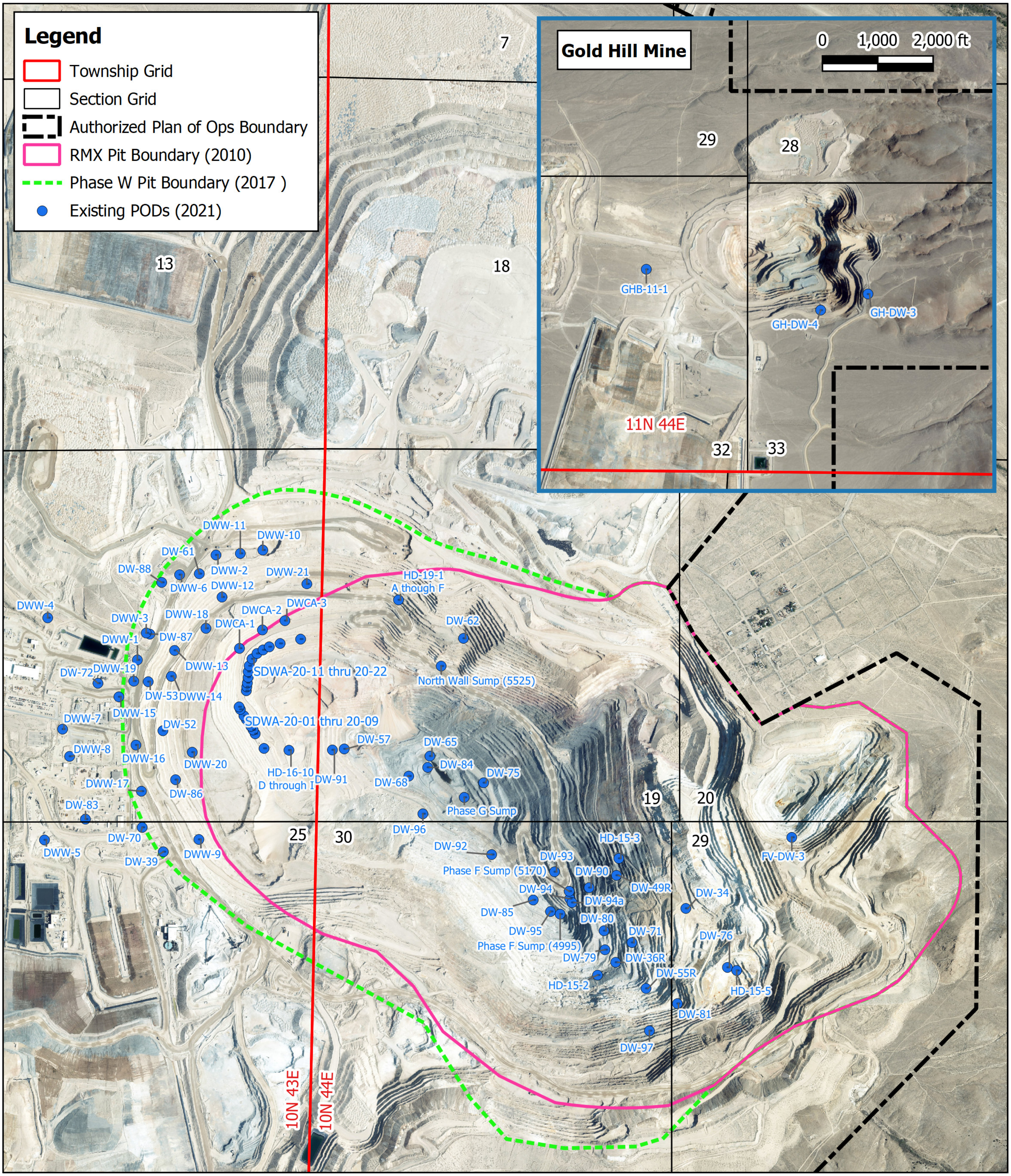
2017
2018
2019
2020
2021


RMGC-Monitoring Well MW-117
Figure A18
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
MW-117

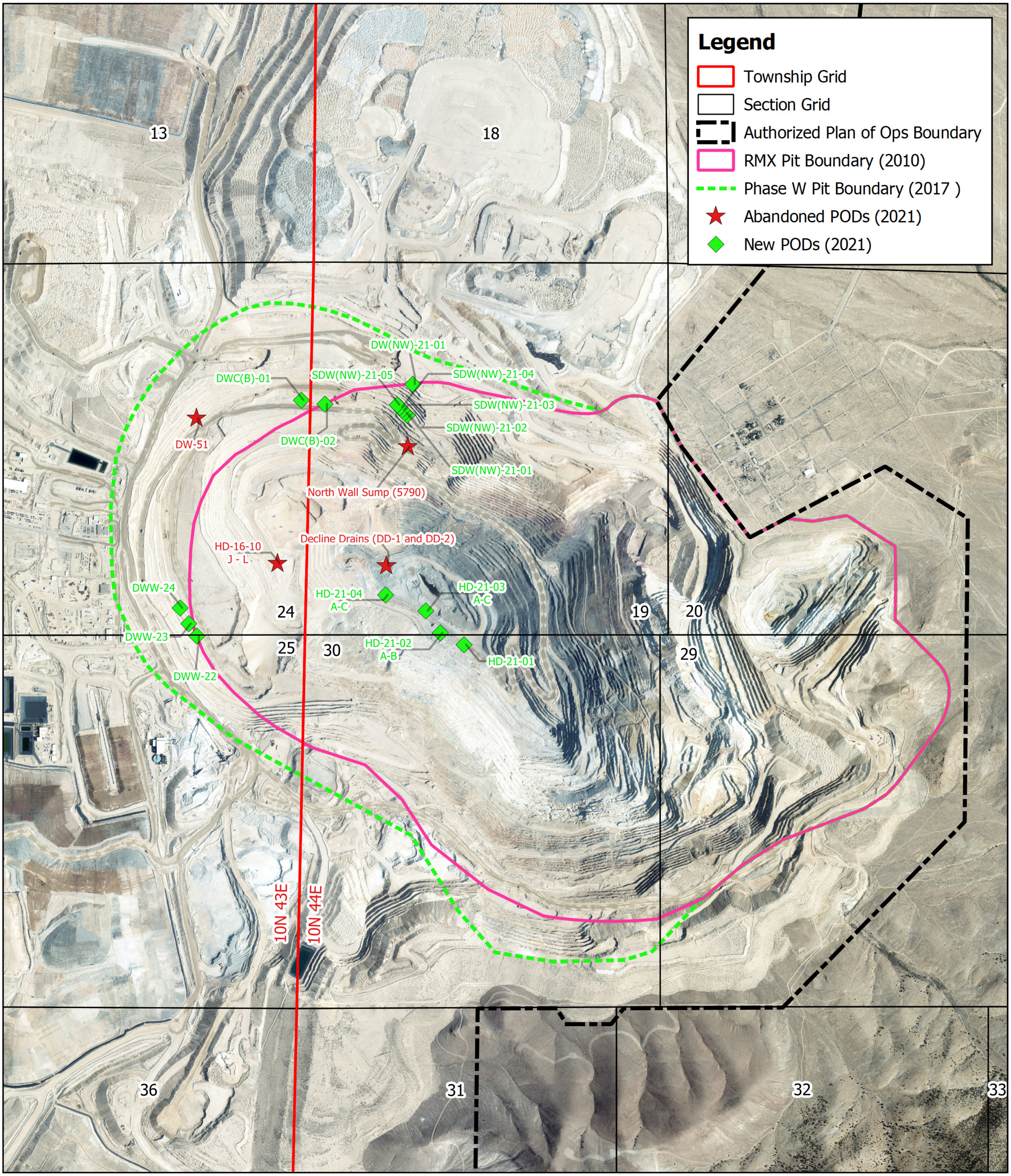

RMGC-Monitoring Well MW-118
Figure A19
Ground Water Elevation, ft-AMSL
5660
5650
5640
5630
5620
5610
5600
MW-118
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021

# APPENDIX B

## 2021 Points of Diversion Accounting / Status




| RMGC 2021 ANNUAL REPORT | KINROSS Round Mountain | 2021 NEAR-PIT POINTS OF DIVERSION | |
|---|---|---|---|
| | GRAPHIC SCALE 0 2,000 4,000 6,000 ft | EXISTING PODS @ END OF YEAR | DRAWING NO. |
| | | DATE: 1/27/2022 | B-1 |
| | | DRAWN BY: J. DIXON, P.E. | |




| RMGC 2021 ANNUAL REPORT | KINROSS Round Mountain | 2021 NEAR-PIT POINTS OF DIVERSION |
|---|---|---|

GRAPHIC SCALE: 0, 2,000, 4,000, 6,000 ft

NEW & ABANDONED PODS

DATE: 1/28/2022

DRAWN BY: J. DIXON, P.E.

DRAWING NO. B-2

# APPENDIX B - 2021 Points of Diversion Status

| Point of Diversion Source Name | Completion Date | Current Permit / Waiver | Base Water Right | NDWR Well Log (s) | Town-ship | Range | Section | Quarter-Quarter | Longitude (WGS84) | Latitude (WGS84) | Surface Elev. (ft-Mean Sea Level) | Completed Depth (ft-bgs) | Status / Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Existing PODs at End of 2021** | | | | | | | | | | | | | |
| East Well 1 | 7/16/1952 | 14119, 26652, 60875 | | 1999 | N10 | E43 | 20 | NE-NE | -117.16667 | 38.71749 | 5765.3 | 352 | Ancillary (offsite) well |
| ICT Ranch (GC) Well | 3/6/1963 | 54911, 54912, 64181, 21043, 26891 | | 7211 | N10 | E43 | 28 | SW-SW | -117.16564 | 38.69001 | 5785.9 | 485 | Ancillary (offsite) well, PBU Pending #64181 (golf course) |
| East Well 2 | 6/5/1988 | 51577, 51578, 60876 | | 30764 | N10 | E43 | 21 | NE-NW | -117.15630 | 38.71586 | 5730.7 | 450 | Ancillary (offsite) well |
| West Well | 2/1/1989 | 12445, 12768, 26650, 60874 | | 31167 | N10 | E43 | 20 | NE-NE | -117.16802 | 38.71768 | 5777.0 | 400 | Ancillary (offsite) well |
| DW-34 | 6/7/2002 | 83333 | 44297 | 89290 | N10 | E44 | 29 | NW-NW | -117.07323 | 38.70050 | 5871.9 | 800 | In-pit dewatering well |
| DW-39 | 6/15/2003 | 83333 | 53365 | 91992 | N10 | E43 | 25 | NW-NE | -117.09923 | 38.70271 | 6057.7 | 937.6 | Alluvial (ex-pit) dewatering well |
| DW-53 | 3/11/2006 | 76602 | | 99371 | N10 | E43 | 24 | NW-SE | -117.09998 | 38.70934 | 6012.5 | 878.5 | Alluvial (ex-pit) dewatering well |
| DW-52 | 3/25/2006 | 76601 | | 99704 | N10 | E43 | 24 | NW-SE | -117.09925 | 38.70743 | 6023.7 | 881 | Alluvial (ex-pit) dewatering well |
| DW-36R | 3/21/2007 | 83333 | 12442 | 105760 | N10 | E44 | 30 | SE-NE | -117.07672 | 38.69840 | 5522.6 | 1098 | In-pit dewatering well |
| DW-57 | 9/11/2010 | 82950 | | 108787 | N10 | E44 | 19 | SW-SW | -117.09023 | 38.70672 | 5345.1 | 960 | In-pit dewatering well |
| DW-61 | 3/14/2011 | 83333 | 44297 | 113687 | N10 | E43 | 24 | SW-NE | -117.09744 | 38.71356 | 6117.2 | 1000 | Alluvial (ex-pit) dewatering well |
| DW-62 | 11/2/2011 | 83333 | 12442 | 115219 | N10 | E44 | 19 | SE-NW | -117.08430 | 38.71103 | 5770.5 | 900 | In-pit dewatering well |
| DW-49R | 11/16/2012 | 83333 | 53365 | 116471 | 10N | 44E | 30 | NE-NE | -117.07668 | 38.70179 | 5483.4 | 1060 | In-pit dewatering well |
| GHB-11-1 | 12/12/2012 | 83333 | 70169 | 115909 | N11 | E44 | 32 | SW-NE | -117.05945 | 38.77153 | 6165.5 | 1000 | Gold Hill (ex-pit) dewatering / production well |
| DW-55R | 1/23/2013 | 83333 | 55503 | 116413 | N10 | E44 | 30 | SE-NE | -117.07521 | 38.69738 | 5656.5 | 1180 | In-pit dewatering well |
| DW-68 | 2/19/2013 | 83333 | 55501 | 116420 | N10 | E44 | 19 | SE-SW | -117.08702 | 38.70566 | 4895.5 | 880 | In-pit dewatering well |
| DW-70 | 3/15/2013 | 82949 | | 118285 | N10 | E43 | 25 | NW-NE | -117.10028 | 38.70366 | 6042.6 | 1300 | Alluvial (ex-pit) dewatering well |
| DW-71 | 4/26/2013 | 83333 | 60875 | 121738 | N10 | E44 | 30 | SE-NE | -117.07591 | 38.69917 | 5575.1 | 1180 | In-pit dewatering well |
| FV-DW-3 | 7/15/2013 | 83333 | 55502 | 117033 | N10 | E44 | 29 | NE-NW | -117.06796 | 38.70327 | 6394.8 | 405 | In-pit dewatering well |
| DW-65 | 3/30/2014 | 83333 | | 119795 | N10 | E44 | 19 | SE-SW | -117.08597 | 38.70644 | 4925.5 | 800 | In-pit dewatering well |
| DW-72 | 10/27/2014 | 83333 | | 121637 | N10 | E43 | 24 | NE-SW | -117.10248 | 38.70928 | 6061.4 | 1140 | Alluvial (ex-pit) dewatering well |
| GH-DW-4 | 6/6/2015 | 83333 | | 122658 | N11 | E44 | 32 | SE-NW | -117.04840 | 38.76950 | 6305.6 | 805 | New in-pit dewatering well |
| GH-DW-3 | 6/9/2015 | 83333 | | 122633 | N11 | E44 | 32 | SE-NW | -117.04540 | 38.77030 | 6401.8 | 610 | New in-pit dewatering well |
| HD-15-3 | 7/5/2015 | M/O 1976 | N/A | 122686-122689 | N10 | E44 | 30 | NE-NE | -117.07656 | 38.70245 | 5418.6 | 800 | Three (3) horizontal drains constructed to relieve highwall pore pressure; all water conveyed into DW-49R |
| DW-76 | 8/24/2015 | 83333 | | 123145 | N10 | E44 | 30 | SW-NW | -117.07116 | 38.69820 | 5971.2 | 805 | New in-pit dewatering well |
| HD-15-5 | 8/28/2015 | M/O 1976 | N/A | 123247 | N10 | E44 | 30 | SW-NW | -117.07070 | 38.69808 | 5971.2 | 800 | Two (2) horizontal drains constructed to relieve highwall pore pressure; all water conveyed into DW-76 |
| HD-15-2 | 9/4/2015 | M/O 1976 | N/A | 124399, 124400, 124401, 124402 | N10 | E44 | 30 | SE-NE | -117.07762 | 38.69790 | 5353.1 | 900, 900, 800, 800 | Four (4) horizontal drains constructed to relieve highwall pore pressure; all water conveyed into DW-36R |
| DW-75 | 12/11/2015 | 83333 | | 124259 | N10 | E44 | 30 | SE-SW | -117.08330 | 38.70540 | 4919.8 | 900 | New in-pit dewatering well |
| HD-16-10, D through I | 10/3/2016 | M/O 2080 | N/A | 126175, 126176, 126177, 126346, 126347, 126348 | N10 | E43 | 24 | SE-SE, NE-SE | -117.09298 | 38.70667 | 5253.3, 5220.6 | 600, 500, 600, 500, 400, 400 | Six (6) horizontal drains constructed to relieve highwall pore pressure |
| HD-19-1, A though F | 5/3/2019 | M/O 2252 | N/A | 132394, 132395, 132396, 132714, 132715, 132716 | N10 | E44 | 19 | SE-NW | -117.08753 | 38.71253 | 5739.6 | 300, 300, 300, 300, 300, 300 | Six (6) horizontal drains constructed to relieve highwall pore pressure |

| Point of Diversion Source Name | Completion Date | Current Permit / Waiver | Base Water Right | NDWR Well Log (s) | Town-ship | Range | Section | Quarter-Quarter | Longitude (WGS84) | Latitude (WGS84) | Surface Elev. (ft-Mean Sea Level) | Completed Depth (ft-bgs) | Status / Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Existing PODs at End of 2021** | | | | | | | | | | | | | |
| DW-79 | 5/29/2016 | 83333 | | 125233 | N10 | E44 | 30 | SE-NE | -117.07725 | 38.69889 | 5346.7 | 650 | In-pit dewatering well |
| DW-80 | 9/4/2016 | 83333 | | 127273 | N10 | E44 | 30 | SE-NE | -117.07730 | 38.69963 | 5308.5 | 610 | In-pit dewatering well |
| DW-81 | 5/7/2016 | 83333 | | 124994 | N10 | E44 | 29 | SW-NW | -117.07365 | 38.69679 | 5866.8 | 810 | In-pit dewatering well |
| DW-83 | 7/28/2016 | 83333 | | 125553 | N10 | E43 | 24 | SE-SW | -117.10310 | 38.70398 | 6010.8 | 1010 | Alluvial (ex-pit) dewatering well |
| DW-84 | 9/26/2016 | 83333 | | 127302 | N10 | E44 | 19 | SE-SW | -117.08608 | 38.70600 | 4789.5 | 570 | In-pit dewatering well |
| DW-85 | 3/21/2017 | 83333 | | 127566 | N10 | E44 | 30 | NW-NE | -117.08082 | 38.70083 | 5205.6 | 670 | In-pit dewatering well |
| DW-86 | 4/27/2017 | 83333 | | 127709 | N10 | E43 | 24 | SW-SE | -117.09862 | 38.70552 | 6105.6 | 970 | Alluvial (ex-pit) dewatering well |
| DW-87 | 6/8/2017 | 83333 | | 128350 | N10 | E43 | 24 | SW-NE | -117.09990 | 38.71120 | 6187.5 | 1340 | Alluvial (ex-pit) dewatering well |
| DW-90 | 7/16/2017 | 83333 | | 128422 | N10 | E44 | 30 | NE-NE | -117.07804 | 38.70131 | 5312.5 | 600 | In-pit dewatering well |
| DW-88 | 7/24/2017 | 83333 | | 129418 | N10 | E43 | 24 | SW-NE | -117.09931 | 38.71322 | 6190.0 | 1310 | Alluvial (ex-pit) dewatering well |
| DW-91 | 9/14/2017 | 83333 | | 128469 | N10 | E44 | 19 | SW-SW | -117.09082 | 38.70668 | 5064.9 | 710 | In-pit dewatering well |
| DW-92 | 12/2/2017 | 83333 | | 128384 | N10 | E44 | 30 | NE-NW | -117.08290 | 38.70260 | 5103.9 | 705 | In-pit dewatering well |
| DW-93 | 12/3/2017 | 83333 | | 129033 | N10 | E44 | 30 | NW-NE | -117.07976 | 38.70193 | 5174.7 | 660 | In-pit dewatering well |
| DW-94 | 4/24/2018 | 83333 | | 129844 | N10 | E44 | 30 | NW-NE | -117.07900 | 38.70088 | 5105.2 | 320 | In-pit dewatering well |
| DW-94a | 9/10/2018 | 83333 | | 131219 | N10 | E44 | 30 | NW-NE | -117.07889 | 38.70073 | 5105.9 | 620 | In-pit dewatering well |
| DW-95 | 7/27/2018 | 83333 | | 130562 | N10 | E44 | 30 | NW-NE | -117.07996 | 38.70038 | 5101.9 | 782 | In-pit dewatering well |
| DW-96 | 9/30/2018 | 83333 | | 131149 | N10 | E44 | 19 | SE-SW | -117.08632 | 38.70419 | 4890.1 | 920 | In-pit dewatering well |
| DW-97 | 6/2/2019 | 83333 | | 132382 | N10 | E44 | 19 | SW-SW | -117.07504 | 38.69573 | 5030.9 | 940 | In-pit dewatering well |
| DWCA-1 | 2/19/2020 | 83333 | | 135443 | N10 | E43 | 24 | NE-SE | -117.09544 | 38.71064 | 5518.6 | 378 | Alluvial (In-pit) dewatering well |
| DWCA-2 | 2/5/2020 | 83333 | | 134386 | N10 | E43 | 24 | SE-NE | -117.09430 | 38.71136 | 5555.5 | 340 | Alluvial (In-pit) dewatering well |
| DWCA-3 | 10/13/2019 | 83333 | | 133446 | N10 | E43 | 24 | SE-NE | -117.09318 | 38.71172 | 5592.9 | 360 | Alluvial (In-pit) dewatering well |
| DWW-1 | 9/23/2018 | 83333 | | 130900 | N10 | E43 | 24 | NW-SE | -117.10052 | 38.71019 | 6002.3 | 1123 | Alluvial (ex-pit) dewatering well |
| DWW-2 | 8/25/2018 | 83333 | | 130745 | N10 | E43 | 24 | SW-NE | -117.09661 | 38.71429 | 6119.0 | 995 | Alluvial (ex-pit) dewatering well |
| DWW-3 | 6/30/2018 | 83333 | | 130597 | N10 | E43 | 24 | SW-NE | -117.10008 | 38.71124 | 6102.4 | 1161 | Alluvial (ex-pit) dewatering well |
| DWW-4 | 6/19/2018 | 83333 | | 130249 | N10 | E43 | 24 | NE-SW | -117.10498 | 38.71183 | 5945.4 | 1240 | Alluvial (ex-pit) dewatering well |
| DWW-5 | 8/14/2018 | 83333 | | 130780 | N10 | E43 | 25 | NE-NW | -117.10514 | 38.70317 | 5996.1 | 1005 | Alluvial (ex-pit) dewatering well |
| DWW-6 | 5/31/2018 | 83333 | | 130596 | N10 | E43 | 24 | SW-NE | -117.09842 | 38.71352 | 6120.0 | 1000 | Alluvial (ex-pit) dewatering well |
| DWW-7 | 5/23/2018 | 83333 | | 130185 | N10 | E43 | 24 | NE-SW | -117.10424 | 38.70749 | 5990.5 | 1115 | Alluvial (ex-pit) dewatering well |
| DWW-8 | 7/18/2018 | 83333 | | 130461 | N10 | E43 | 24 | SE-SW | -117.10389 | 38.70643 | 5993.9 | 1064 | Alluvial (ex-pit) dewatering well |
| DWW-9 | 3/7/2019 | 83333 | | 131908 | N10 | E43 | 25 | NW-NE | -117.09746 | 38.70319 | 6084.5 | 870 | Alluvial (ex-pit) dewatering well |
| DWW-10 | 7/3/2019 | 83333 | | 132562 | N10 | E43 | 24 | SE-NE | -117.09428 | 38.71448 | 6117.1 | 850 | Alluvial (ex-pit) dewatering well |
| DWW-11 | 8/30/2019 | 83333 | | 132966 | N10 | E43 | 24 | SE-NE | -117.09540 | 38.71435 | 6118.4 | 930 | Alluvial (ex-pit) dewatering well |
| DWW-12 | 8/5/2019 | 83333 | | 133220 | N10 | E43 | 24 | SW-NE | -117.09631 | 38.71264 | 6022.2 | 860 | Alluvial (ex-pit) dewatering well |
| DWW-13 | 10/2/2019 | 83333 | | 133388 | N10 | E43 | 24 | NW-SE | -117.09867 | 38.71056 | 6023.2 | 990 | Alluvial (ex-pit) dewatering well |
| DWW-14 | 9/23/2019 | 83333 | | 133035 | N10 | E43 | 24 | NW-SE | -117.09883 | 38.70955 | 6019.8 | 985 | Alluvial (ex-pit) dewatering well |
| DWW-15 | 12/21/2019 | 83333 | | 133503 | N10 | E43 | 24 | NE-SW | -117.10144 | 38.70875 | 6003.3 | 1110 | Alluvial (ex-pit) dewatering well |
| DWW-16 | 11/4/2019 | 83333 | | 133278 | N10 | E43 | 24 | SW-SE | -117.10059 | 38.70687 | 6038.5 | 935 | Alluvial (ex-pit) dewatering well |
| DWW-17 | 12/10/2019 | 83333 | | 133650 | N10 | E43 | 24 | SW-SE | -117.10032 | 38.70507 | 6037.0 | 970 | Alluvial (ex-pit) dewatering well |

| Point of Diversion Source Name | Completion Date | Current Permit / Waiver | Base Water Right | NDWR Well Log (s) | Town-ship | Range | Section | Quarter-Quarter | Longitude (WGS84) | Latitude (WGS84) | Surface Elev. (ft-Mean Sea Level) | Completed Depth (ft-bgs) | Status / Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Existing PODs at End of 2021** | | | | | | | | | | | | | |
| DWW-18 | 10/9/2020 | 83333 | | 137172 | N10 | E43 | 24 | SW-NE | -117.09711 | 38.71142 | 5919.2 | 1043 | Alluvial (In-pit) dewatering well |
| DWW-19 | 10/17/2019 | 83333 | | 133649 | N10 | E43 | 24 | NW-SE | -117.10070 | 38.70936 | 6003.2 | 1080 | Alluvial (ex-pit) dewatering well |
| DWW-20 | 12/6/2020 | 83333 | | 135488 | N10 | E43 | 24 | SW-SE | -117.09779 | 38.70659 | 5917.3 | 851 | Alluvial (In-pit) dewatering well |
| DWW-21 | 8/30/2020 | 83333 | | 134722 | N10 | E43 | 24 | SE-NE | -117.09209 | 38.71316 | 5919.0 | 793 | Alluvial (In-pit) dewatering well |
| SDWA-20-01 | 9/25/2020 | 83333 | | 135616 | N10 | E43 | 24 | SE-SE | -117.09466 | 38.70731 | 5384.4 | 205 | Alluvial (In-pit) dewatering well |
| SDWA-20-02 | 9/5/2020 | 83333 | | 135637 | N10 | E43 | 24 | NE-SE | -117.09476 | 38.70746 | 5384.1 | 230 | Alluvial (In-pit) dewatering well |
| SDWA-20-03 | 10/2/2020 | 83333 | | 135636 | N10 | E43 | 24 | NE-SE | -117.09487 | 38.70760 | 5384.0 | 180 | Alluvial (In-pit) dewatering well |
| SDWA-20-04 | 9/3/2020 | 83333 | | 135635 | N10 | E43 | 24 | NE-SE | -117.09498 | 38.70774 | 5383.6 | 220 | Alluvial (In-pit) dewatering well |
| SDWA-20-05 | 10/4/2020 | 83333 | | 135634 | N10 | E43 | 24 | NE-SE | -117.09510 | 38.70787 | 5382.8 | 205 | Alluvial (In-pit) dewatering well |
| SDWA-20-06 | 9/30/2020 | 83333 | | 135633 | N10 | E43 | 24 | NE-SE | -117.09522 | 38.70801 | 5383.9 | 245 | Alluvial (In-pit) dewatering well |
| SDWA-20-07 | 9/28/2020 | 83333 | | 135632 | N10 | E43 | 24 | SE-SE | -117.09422 | 38.70674 | 5385.4 | 125 | Alluvial (In-pit) dewatering well |
| SDWA-20-08 | 9/24/2020 | 83333 | | 135631 | N10 | E43 | 24 | NE-SE | -117.09540 | 38.70826 | 5383.1 | 265 | Alluvial (In-pit) dewatering well |
| SDWA-20-09 | 8/13/2020 | 83333 | | 136714 | N10 | E43 | 24 | NE-SE | -117.09546 | 38.70836 | 5412.8 | 300 | Alluvial (In-pit) dewatering well |
| SDWA-20-11 | 8/21/2020 | 83333 | | 135629 | N10 | E43 | 24 | NE-SE | -117.09510 | 38.70899 | 5411.6 | 330 | Alluvial (In-pit) dewatering well |
| SDWA-20-12 | 8/29/2020 | 83333 | | 135628 | N10 | E43 | 24 | NE-SE | -117.09508 | 38.70914 | 5410.9 | 330 | Alluvial (In-pit) dewatering well |
| SDWA-20-13 | 8/21/2020 | 83333 | | 135627 | N10 | E43 | 24 | NE-SE | -117.09505 | 38.70929 | 5411.7 | 325 | Alluvial (In-pit) dewatering well |
| SDWA-20-14 | 8/12/2020 | 83333 | | 135002 | N10 | E43 | 24 | NE-SE | -117.09501 | 38.70951 | 5413.1 | 220 | Alluvial (In-pit) dewatering well |
| SDWA-20-15 | 10/28/2020 | 83333 | | 135505 | N10 | E43 | 24 | NE-SE | -117.09501 | 38.70973 | 5383.2 | 280 | Alluvial (In-pit) dewatering well |
| SDWA-20-16 | 9/17/2020 | 83333 | | NOI N2020-528 | N10 | E43 | 24 | NE-SE | -117.09496 | 38.70996 | 5383.0 | 290 | Alluvial (In-pit) dewatering well |
| SDWA-20-17 | 10/22/2020 | 83333 | | 135506 | N10 | E43 | 24 | NE-SE | -117.09482 | 38.71023 | 5379.3 | 260 | Alluvial (In-pit) dewatering well |
| SDWA-20-18 | 9/10/2020 | 83333 | | 135642 | N10 | E43 | 24 | NE-SE | -117.09457 | 38.71044 | 5378.0 | 275 | Alluvial (In-pit) dewatering well |
| SDWA-20-19 | 10/5/2020 | 83333 | | NOI N2020-528 | N10 | E43 | 24 | NE-SE | -117.09427 | 38.71058 | 5383.1 | 300 | Alluvial (In-pit) dewatering well |
| SDWA-20-20 | 9/15/2020 | 83333 | | 135046 | N10 | E43 | 24 | NE-SE | -117.09396 | 38.71070 | 5382.4 | 305 | Alluvial (In-pit) dewatering well |
| SDWA-20-21 | 8/3/2020 | 83333 | | 135626 | N10 | E43 | 24 | NE-SE | -117.09342 | 38.71083 | 5412.7 | 355 | Alluvial (In-pit) dewatering well |
| SDWA-20-22 | 9/18/2020 | 83333 | | 135625 | N10 | E43 | 24 | NE-SE | -117.09240 | 38.71100 | 5376.2 | 350 | Alluvial (In-pit) dewatering well |
| North Wall Sump (5525) | 4/15/2019 | 83333 | | N/A | N10 | E44 | 19 | NE-SW | -117.08541 | 38.70995 | 5454.8 | N/A | Sump built to collect water from pit inflows. Water is conveyed out of the pit via a booster pump. |
| Phase F Sump to Booster (4995) | 1/1/2020 | 83333 | | N/A | N10 | E44 | 30 | NW-NE | -117.07948 | 38.70028 | 4924.8 | N/A | Sump built to collect water from pit inflows. Water is conveyed out of the pit via a booster pump. |
| Phase F Sump to Booster (5170) | 1/1/2019 | 83333 | | N/A | N10 | E44 | 30 | NW-NE | -117.07903 | 38.70117 | 5099.8 | N/A | Sump built to collect water from pit inflows. Water is conveyed out of the pit via a booster pump. |
| Phase G Sump to Booster | 1/1/2019 | 83333 | | N/A | N10 | E44 | 19 | SE-SW | -117.08426 | 38.70483 | 4679.8 | N/A | Sump built to collect water from pit inflows. Water is conveyed out of the pit via a booster pump. |

# APPENDIX B - 2021 Points of Diversion Status

| Point of Diversion Source Name | Completion Date | Current Permit / Waiver | Base Water Right | NDWR Well Log (s) | Town-ship | Range | Section | Quarter-Quarter | Longitude (WGS84) | Latitude (WGS84) | Surface Elev. (ft-Mean Sea Level) | Completed Depth (ft-bgs) | Status / Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **New PODs in 2021** | | | | | | | | | | | | | |
| DW(NW)-21-01 | 2/16/2021 | 83333 | | 136504 | N10 | E44 | 19 | SE-NW | -117.08625 | 38.71366 | 6117.7 | 512 | Alluvial (In-pit) dewatering well |
| DWC(B)-01 | 3/8/2021 | 83333 | | 137356 | N10 | E43 | 24 | SE-NE | -117.09179 | 38.71304 | 5820.7 | 705 | Alluvial (In-pit) dewatering well |
| DWC(B)-02 | 4/8/2021 | 83333 | | 137206 | N10 | E44 | 19 | SW-NW | -117.09062 | 38.71289 | 5774.3 | 625 | Alluvial (In-pit) dewatering well |
| DWW-22 | 3/30/2021 | 83333 | | 136643 | N10 | E43 | 24 | SW-SE | -117.09699 | 38.70384 | 5821.3 | 635 | Alluvial (In-pit) dewatering well |
| DWW-23 | 3/22/2021 | 83333 | | 137071 | N10 | E43 | 24 | SW-SE | -117.09739 | 38.70432 | 5820.4 | 770 | Alluvial (In-pit) dewatering well |
| DWW-24 | 4/10/2021 | 83333 | | 136591 | N10 | E43 | 24 | SW-SE | -117.09782 | 38.70493 | 5820.0 | 710 | Alluvial (In-pit) dewatering well |
| SDW(NW)-21-01 | 6/27/2021 | 83333 | | 137515 | N10 | E44 | 19 | SE-NW | -117.08653 | 38.71246 | 5871.5 | 190 | Alluvial (In-pit) dewatering well |
| SDW(NW)-21-02 | 6/30/2021 | 83333 | | 137519 | N10 | E44 | 19 | SE-NW | -117.08666 | 38.71255 | 5871.3 | 195 | Alluvial (In-pit) dewatering well |
| SDW(NW)-21-03 | 7/9/2021 | 83333 | | 137514 | N10 | E44 | 19 | SE-NW | -117.08678 | 38.71265 | 5871.5 | 225 | Alluvial (In-pit) dewatering well |
| SDW(NW)-21-04 | 7/14/2021 | 83333 | | 137517 | N10 | E44 | 19 | SE-NW | -117.08689 | 38.71276 | 5871.6 | 245 | Alluvial (In-pit) dewatering well |
| SDW(NW)-21-05 | 7/18/2021 | 83333 | | 137518 | N10 | E44 | 19 | SW-NW | -117.08702 | 38.71286 | 5871.4 | 285 | Alluvial (In-pit) dewatering well |
| HD-21-01 | 11/19/2021 | DR-0001 | N/A | N2021-963 | N10 | E44 | 30 | NE-NW | -117.08370 | 38.70350 | 4771.4 | 700 | One (1) horizontal drains constructed to relieve highwall pore pressure |
| HD-21-02, A through B | 11/28/2021 | DR-0001 | N/A | N2021-962 | N10 | E44 | 19 | SE-SW | -117.08488 | 38.70396 | 4771.6 | 600, 500 | Two (2) horizontal drains constructed to relieve highwall pore pressure |
| HD-21-03, A through C | 6/11/2021 | DR-0001 | N/A | 137096, N2021-354, 137097 | N10 | E44 | 19 | SE-SW | -117.08560 | 38.70482 | 4760.1 | 500, 600, 760 | Three (3) horizontal drains constructed to relieve highwall pore pressure |
| HD-21-04, A through C | 5/24/2021 | DR-0001 | N/A | 137054, 137055, 137053 | N10 | E44 | 19 | SW-SW | -117.08760 | 38.70544 | 4762.0 | 560, 680, 550 | Three (3) horizontal drains constructed to relieve highwall pore pressure |
| **Abandoned PODs in 2021** | | | | | | | | | | | | | |
| DW-51 | 4/16/2007 | 76600 | | 105762 | N10 | E43 | 24 | SW-NE | -117.09701 | 38.71234 | 6121.5 | 955 | Alluvial (ex-pit) dewatering well |
| **Mined Out PODs in 2021 (Eliminated by Mining)** | | | | | | | | | | | | | |
| Decline Drains (DD-1 and DD-2) | 12/7/2015 | M/O 2028 | 83333 | 124148 | N10 | E44 | 19 | SW-SW | -117.08757 | 38.70658 | 4723.8 | 600 | Two horizontal drain to dewater an underground decline and relieve highwall pressure; water conveyed out of pit via a booster pump. |
| HD-16-10, J through L | 10/3/2016 | M/O 2080 | N/A | 126349, 126351, 126352 | N10 | E43 | 24 | SE-SE, NE-SE | -117.09298 | 38.70667 | 5253.3, 5220.6 | 440, 340, 400 | Three (3) horizontal drains constructed to relieve highwall pore pressure |
| North Wall Sump (5790) | 4/15/2019 | 83333 | | N/A | N10 | E44 | 19 | SE-NW | -117.08650 | 38.71123 | 5719.8 | N/A | Sump built to collect water from pit inflows. Water is conveyed out of the pit via a booster pump. |

# APPENDIX C

## 2021 Hydrology / Dewatering Drain & MO Waiver Status

# APPENDIX C - 2021 Hydrology/Dewatering Drain MO Waiver Status

| Completion Name | Completion Date | Waiver Types (1,2,3) | Waiver | NOI # | Town-ship | Range | Section | Quarter-Quarter | Easting-X (NAD27-m) | Northing-Y (NAD27-m) |
|---|---|---|---|---|---|---|---|---|---|---|
| Existing at End of 2021 | | | | | | | | | | |
| MW 95-9 | | MO | M/O-901 | | 10N | 44E | 29 | NW-SW | 493657 | 4282545 |
| MW 96-1 | 9/28/1996 | MO | M/O-992A | 31353 | 10N | 43E | 25 | NE-NW | 491273 | 4283693 |
| M/O 2000-3 | 6/15/2000 | MO | M/O-1209 | 44764 | 10N | 44E | 29 | NE-SW | 494427 | 4282511 |
| M/O 2000-9 | 2/9/2001 | MO | M/O-1209 | 46655 | 10N | 44E | 29 | SW-SE | 494379 | 4282455 |
| M/O 2002-10 | 5/15/2002 | MO | M/O- 1250 | 50849 | 10N | 44E | 29 | NW-NW | 493709 | 4283312 |
| M/O 2002-9 | 5/13/2002 | MO | M/O- 1250 | 50850 | 10N | 44E | 29 | NW-NW | 493707 | 4283280 |
| M/O 2007-3 | 2/25/2007 | MO | M/O 1436 | 30754 | 10N | 44E | 19 | SE-NW | 493007 | 4284518 |
| M/O 2007-6 | 4/1/2007 | MO | M/O 1436 | 59732 | 10N | 44E | 29 | NW-SW | 493827 | 4283206 |
| M/O 2008-2 | 12/3/2008 | MO | M/O1500 | 61043 | 10N | 44E | 19 | SW-NW | 492519 | 4284776 |
| M/O 2010-4 | 1/30/2011 | MO | M/O 1647 | 65783 | 10N | 44E | 19 | NE-SW | 492769 | 4284499 |
| M/O 2010-5 | 1/14/2011 | MO | M/O 1647 | 65784 | 10N | 44E | 19 | NW-SE | 493213 | 4284404 |
| M/O 2010-6 | 1/11/2011 | MO | M/O 1647 | 65785 | 10N | 44E | 30 | SW-NE | 493133 | 4282903 |
| M/O 2010-7 | 1/27/2011 | MO | M/O 1647 | 65786 | 10N | 44E | 30 | NW-NW | 492337 | 4283374 |
| M/O 2010-10 | 3/21/2011 | MO | M/O 1670 | 65791 | 10N | 44E | 30 | NW-SE | 492958 | 4282710 |
| D-511 | 2/14/2012 | MO | M/O 1803 | 33040 | 10N | 43E | 24 | SW-SE | 491492 | 4283987 |
| HD-12-FV1 | 12/17/2012 | Drain Type 2 | M/O 1863 | 69245 | 10N | 44E | 29 | NW-NW | 493820 | 4283310 |
| 13-FVH-10 through 12 | | Drain Type 2 | M/O 1878 | | 10N | 44E | 20 | SE-SW | 494451 | 4283879 |
| DV-14-15 | | Drain Type 1 | M/O 1947 | | 10N | 44E | 19 | SE-NW | 492854 | 4284685 |
| DV-14-16 | 10/27/2014 | Drain Type 1 | M/O 1947 | 71458 | 10N | 44E | 19 | SE-NW | 492825 | 4284711 |
| Existing at End of 2021 | | | | | | | | | | |
| DV-14-17 | 10/30/2014 | Drain Type 1 | M/O 1947 | 71458 | 10N | 44E | 19 | SE-NW | 492793 | 4284727 |
| HD-15-2 | 9/4/2015 | Drain Type 2 | M/O 1976 | 71688 | 10N | 44E | 30 | SE-NE | 493370 | 4283015 |
| HD-15-3 | 6/19/2015 | Drain Type 2 | M/O 1997 | 73199 | 10N | 44E | 30 | NE-NE | 493417 | 4283532 |
| HD-15-5 | 8/19/2015 | Drain Type 2 | M/O 1997 | 73256 | 10N | 44E | 29 | SW-NW | 493921 | 4283064 |
| MO 2016-10 | 4/8/2016 | MO | M/O 2051 | 73618 | 10N | 44E | 30 | SE-NE | 493389 | 4283110 |
| HD-16-10d | 8/31/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491997 | 4283947 |
| HD-16-10e | 9/2/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491995 | 4283970 |
| HD-16-10f | 9/3/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491995 | 4284001 |
| HD-16-10g | 9/4/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491995 | 4284031 |
| HD-16-10h | 9/30/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491995 | 4284062 |
| HD-16-10i | 10/1/2016 | Drain Type 2 | M/O 2080 | 75547 | 10N | 43E | 24 | SE-SE | 491995 | 4284092 |
| RP2-1R | 12/15/2016 | MO | M/O 2095 | 75561 | 9N | 43E | 1 | NW-SW | 490512 | 4279328 |
| AD-16-3 | 12/10/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493263 | 4283140 |
| AD-16-4 | 12/8/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493204 | 4283128 |
| AD-16-5 | 12/5/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493172 | 4283126 |
| AD-16-6 | 12/2/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493145 | 4283135 |
| AD-16-8 | 12/9/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493230 | 4283131 |
| AD-16-10 | 12/1/2016 | Drain Type 1 | M/O 2094 | 75573 | 10N | 44E | 30 | SW-NE | 493189 | 4283141 |
| HD-19-1a | 4/22/2019 | Drain Type 2 | M/O 2252 | 74364 | 10N | 44E | 19 | NW-SW | 492464 | 4284685 |
| HD-19-1b | 5/1/2019 | Drain Type 2 | M/O 2252 | 74364 | 10N | 44E | 19 | NW-SW | 492467 | 4284683 |
| HD-19-1c | 5/3/2019 | Drain Type 2 | M/O 2252 | 74364 | 10N | 44E | 19 | NW-SW | 492469 | 4284682 |
| HD-19-1d | 4/19/2019 | Drain Type 2 | M/O 2252 | 74365 | 10N | 44E | 19 | NW-SE | 492521 | 4284633 |
| HD-19-1e | 4/17/2019 | Drain Type 2 | M/O 2252 | 74365 | 10N | 44E | 19 | NW-SE | 492523 | 4284631 |
| HD-19-1f | 4/14/2019 | Drain Type 2 | M/O 2252 | 74365 | 10N | 44E | 19 | NW-SE | 492526 | 4284628 |
| OBH(A)-20-02 | 9/13/2020 | MO | M/O 2302-Amended | N2020-528 | 10N | 43E | 24 | NE-SE | 491825 | 4284389 |
| DA(A)-20-01 | 12/4/2020 | Drain Type 1 | M/O 2302-Amended | N2020-823 | 10N | 43E | 24 | SE-SE | 491945 | 4283963 |
| DA(A)-20-02 | 12/6/2020 | Drain Type 1 | M/O 2302-Amended | N2020-824 | 10N | 43E | 24 | SE-SE | 491946 | 4283979 |
| DA(A)-20-03 | 12/9/2020 | Drain Type 1 | M/O 2302-Amended | N2020-825 | 10N | 43E | 24 | SE-SE | 491943 | 4283992 |
| DA(A)-20-08 | 12/19/2020 | Drain Type 1 | M/O 2302-2nd Amended | N2020-1008 | 10N | 43E | 24 | NE-SE | 491876 | 4284461 |
| DA(A)-20-09 | 12/22/2020 | Drain Type 1 | M/O 2302-2nd Amended | N2020-1009 | 10N | 43E | 24 | SE-NE | 492122 | 4284521 |

## APPENDIX C - 2021 Hydrology/Dewatering Drain MO Waiver Status

| Completion Name | Completion Date | Waiver Types (1,2,3) | Waiver | NOI # | Town-ship | Range | Section | Quarter-Quarter | Easting-X (NAD27-m) | Northing-Y (NAD27-m) |
|---|---|---|---|---|---|---|---|---|---|---|
| **New in 2021** | | | | | | | | | | |
| DV(NW)-21-01 | 3/4/2021 | Drain Type 1 | DR-0001 | N2021-174 | 10N | 43E | 24 | NE-SE | 491898 | 4284474 |
| DV(NW)-21-02 | 3/20/2021 | Drain Type 1 | DR-0001 | N2021-175 | 10N | 43E | 24 | NE-SE | 491925 | 4284486 |
| DV(NW)-21-03 | 3/23/2021 | Drain Type 1 | DR-0001 | N2021-176 | 10N | 43E | 24 | NE-SE | 491941 | 4284491 |
| DV(NW)-21-04 | 3/7/2021 | Drain Type 1 | DR-0001 | N2021-177 | 10N | 43E | 24 | NE-SE | 491973 | 4284496 |
| DV(NW)-21-05 | 3/8/2021 | Drain Type 1 | DR-0001 | N2021-178 | 10N | 43E | 24 | NE-SE | 492004 | 4284504 |
| DV(NW)-21-06 | 3/20/2021 | Drain Type 1 | DR-0001 | N2021-179 | 10N | 43E | 24 | NE-SE | 492031 | 4284508 |
| DV(NW)-21-07 | 3/27/2021 | Drain Type 1 | DR-0001 | N2021-180 | 10N | 43E | 24 | NE-SE | 492065 | 4284513 |
| DV(NW)-21-08 | 3/13/2021 | Drain Type 1 | DR-0001 | N2021-181 | 10N | 43E | 24 | SE-NE | 492096 | 4284517 |
| DV(NW)-21-09 | 3/19/2021 | Drain Type 1 | DR-0001 | N2021-182 | 10N | 44E | 19 | SW-NW | 492158 | 4284521 |
| DV(NW)-21-10 | 4/12/2021 | Drain Type 1 | DR-0001 | N2021-183 | 10N | 44E | 19 | SW-NW | 492189 | 4284519 |
| DV(NW)-21-11 | 3/25/2021 | Drain Type 1 | DR-0001 | N2021-184 | 10N | 44E | 19 | NW-SW | 492210 | 4284505 |
| DV(NW)-21-12 | 3/16/2021 | Drain Type 1 | DR-0001 | N2021-185 | 10N | 44E | 19 | NW-SW | 492234 | 4284486 |
| DV(NW)-21-13 | 3/21/2021 | Drain Type 1 | DR-0001 | N2021-186 | 10N | 44E | 19 | NW-SW | 492265 | 4284478 |
| DV(NW)-21-14 | 3/15/2021 | Drain Type 1 | DR-0001 | N2021-187 | 10N | 44E | 19 | NW-SW | 492296 | 4284476 |
| HD-21-01 | 11/19/2021 | Drain Type 2 | DR-0001 | N2021-963 | 10N | 44E | 30 | NE-NW | 492802 | 4283680 |
| HD-21-02a | 11/25/2021 | Drain Type 2 | DR-0001 | N2021-962 | 10N | 44E | 19 | SE-SW | 492702 | 4283730 |
| HD-21-02b | 11/28/2021 | Drain Type 2 | DR-0001 | N2021-962 | 10N | 44E | 19 | SE-SW | 492699 | 4283731 |
| HD-21-03a | 6/8/2021 | Drain Type 2 | DR-0001 | N2021-354 | 10N | 44E | 19 | SE-SW | 492605 | 4283825 |
| HD-21-03b | 6/11/2021 | Drain Type 2 | DR-0001 | N2021-354 | 10N | 44E | 19 | SE-SW | 492602 | 4283827 |
| HD-21-03c | 6/5/2021 | Drain Type 2 | DR-0001 | N2021-354 | 10N | 44E | 19 | SE-SW | 492599 | 4283829 |
| HD-21-04a | 5/19/2021 | Drain Type 2 | DR-0001 | N2021-353 | 10N | 44E | 19 | SW-SW | 492466 | 4283895 |
| HD-21-04b | 5/22/2021 | Drain Type 2 | DR-0001 | N2021-353 | 10N | 44E | 19 | SW-SW | 492463 | 4283896 |
| HD-21-04c | 5/24/2021 | Drain Type 2 | DR-0001 | N2021-353 | 10N | 44E | 19 | SW-SW | 492460 | 4283896 |
| Inc-21-01 | 5/23/2021 | MO | M/O-2351 | N2021-425 | 10N | 44E | 19 | NW-SW | 492361 | 4284467 |
| Inc-21-02 | 5/25/2021 | MO | M/O-2351 | N2021-424 | 10N | 43E | 24 | NE-SE | 491994 | 4284442 |
| Inc-21-03 | 6/6/2021 | MO | M/O-2351 | N2021-423 | 10N | 43E | 24 | NE-SE | 491893 | 4284318 |
| DA(NW)-21-15 | 8/27/2021 | Drain Type 1 | DR-0003 | N2021-689 | 10N | 43E | 24 | NE-SE | 491844 | 4284446 |
| DA(NW)-21-16 | 8/30/2021 | Drain Type 1 | DR-0003 | N2021-688 | 10N | 43E | 24 | NE-SE | 492006 | 4284511 |
| DV(NW)-21-17 | 8/25/2021 | Drain Type 1 | DR-0003 | N2021-691 | 10N | 43E | 24 | NE-SE | 492006 | 4284445 |
| DA(NW)-21-18 | 10/1/2021 | Drain Type 1 | DR-0003 | N2021-690 | 10N | 44E | 19 | SW-NW | 492146 | 4284528 |
| DA(NW)-21-19 | 10/8/2021 | Drain Type 1 | DR-0003 | N2021-687 | 10N | 44E | 19 | SW-NW | 492162 | 4284519 |
| MOH(G)-21-01 | 12/11/2021 | Drain Type 2 | DR-0003 | N2021-961 | 10N | 44E | 19 | SE-SW | 492547 | 4284054 |
| MOH(G)-21-02 | 12/14/2021 | Drain Type 2 | DR-0003 | N2021-961 | 10N | 44E | 19 | SE-SW | 492496 | 4283906 |
| DV(NS)-21-01 | 12/12/2021 | Drain Type 1 | DR-0004 | N2021-1107 | 10N | 44E | 19 | SW-NW | 492501 | 4284727 |
| DV(NS)-21-02 | 12/14/2021 | Drain Type 1 | DR-0004 | N2021-1106 | 10N | 44E | 19 | SW-NW | 492487 | 4284734 |
| **Removed from Campaign or Not Drilled in 2021** | | | | | | | | | | |
| FVHD-21-05a | | Drain Type 2 | DR-0001 | | 10N | 44E | 20 | SE-SW | 494419 | 4283690 |
| FVHD-21-05b | | Drain Type 2 | DR-0001 | | 10N | 44E | 20 | SE-SW | 494421 | 4283692 |
| FVHD-21-05c | | Drain Type 2 | DR-0001 | | 10N | 44E | 20 | SE-SW | 494417 | 4283688 |
| FVHD-21-05d | | Drain Type 2 | DR-0001 | | 10N | 44E | 20 | SE-SW | 494418 | 4283690 |
| FVHD-21-05e | | Drain Type 2 | DR-0001 | | 10N | 44E | 20 | SE-SW | 494416 | 4283688 |
| FVHD-21-06a | | Drain Type 2 | DR-0001 | | 10N | 44E | 29 | NE-NW | 494318 | 4283620 |
| FVHD-21-06b | | Drain Type 2 | DR-0001 | | 10N | 44E | 29 | NE-NW | 494317 | 4283617 |
| FVHD-21-06c | | Drain Type 2 | DR-0001 | | 10N | 44E | 29 | NE-NW | 494314 | 4283615 |
| FVHD-21-06d | | Drain Type 2 | DR-0001 | | 10N | 44E | 29 | NE-NW | 494312 | 4283613 |
| MOH(G)-21-02a | | Drain Type 2 | DR-0003 | | 10N | 44E | 19 | SE-SW | 492554 | 4283880 |

## APPENDIX C - 2021 Hydrology/Dewatering Drain MO Waiver Status

| Completion Name | Completion Date | Waiver Types (1,2,3) | Waiver | NOI # | Town-ship | Range | Section | Quarter-Quarter | Easting-X (NAD27-m) | Northing-Y (NAD27-m) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Abandoned in 2021** | | | | | | | | | | |
| NONE IN 2021 | | | | | | | | | | |
| **Mined Out in 2021 (Eliminated by Mining)** | | | | | | | | | | |
| Decline Drain | 11/24/2015 | Drain Type 2 | M/O 2028 | 73597 | 10N | 44E | 19 | SW-SW | 492477 | 4283995 |
| HD-16-10j | 10/2/2016 | Drain Type 2 | M/O 2080 | 75548 | 10N | 43E | 24 | NE-SE | 491999 | 4284122 |
| HD-16-10k | 10/3/2016 | Drain Type 2 | M/O 2080 | 75548 | 10N | 43E | 24 | NE-SE | 492018 | 4284147 |
| HD-16-10l | 10/3/2016 | Drain Type 2 | M/O 2080 | 75548 | 10N | 43E | 24 | NE-SE | 492046 | 4284162 |
| DA(A)-20-04 | 11/3/2020 | Drain Type 1 | M/O 2302-Amended | N2020-827 | 10N | 43E | 24 | SE-SE | 491943 | 4284005 |
| DA(A)-20-05 | 11/1/2020 | Drain Type 1 | M/O 2302-Amended | N2020-827 | 10N | 43E | 24 | SE-SE | 491943 | 4284019 |
| DA(A)-20-19 | 4/17/2020 | Drain Type 1 | M/O 2302 | 76518 | 10N | 43E | 24 | NE-SE | 491836 | 4284281 |
| DA(A)-20-20 | 4/22/2020 | Drain Type 1 | M/O 2302 | 76518 | 10N | 43E | 24 | NE-SE | 491834 | 4284301 |

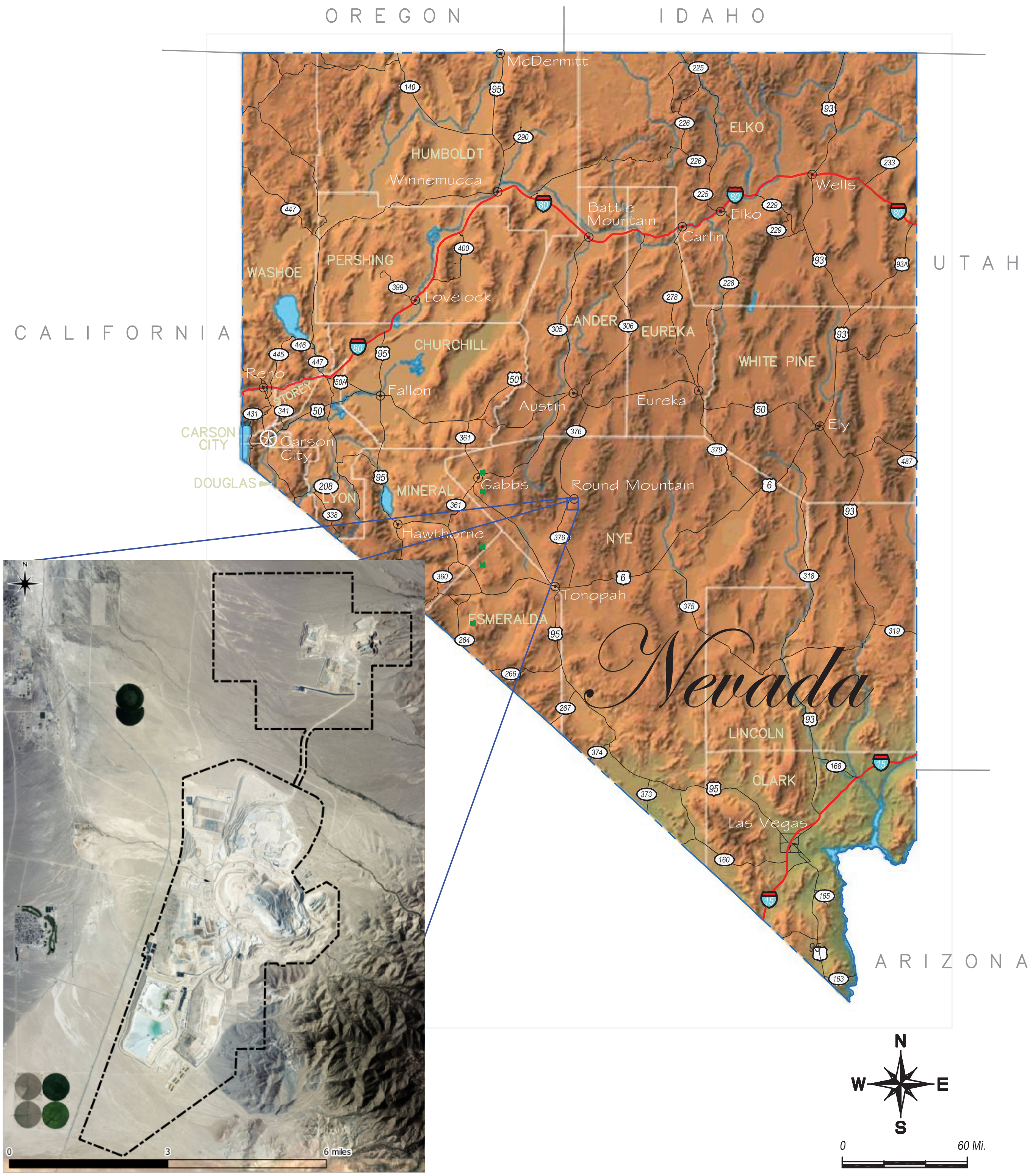
Notes:

[1] MO Waivers: Includes wells and certain instrumentation and/or geotechnical boreholes equipped with vibrating wire piezometers that were completed under a MO Waivers. Appendix C only includes MO Waivers associated with dewatering and hydrologic monitoring programs.

[2] Drain (DR) Waivers – Type 1: Includes drains that are completed in areas that require temporary short term groundwater depressurization in advance of mining where the groundwater captured by the drains cannot be directly accounted for within the dewatering system. A common example of this type of drain at Round Mountain is a vertical drain that is used to gravity drain groundwater to another hydrogeologic unit that is already depressurized by existing dewatering components such that the drained groundwater is assumed to be accounted for passively and elsewhere in the system.

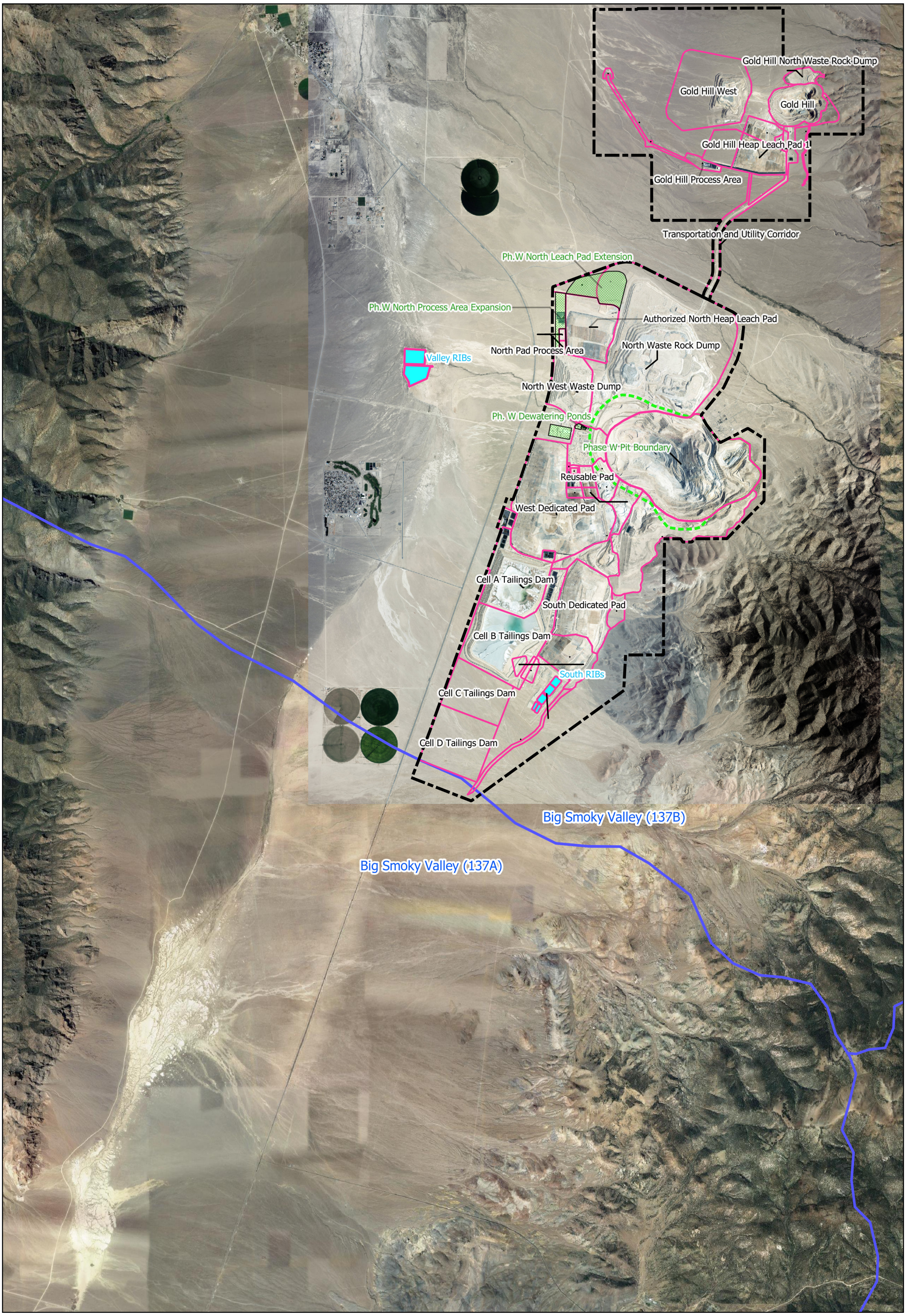
[3] Drain (DR) Waivers – Type 2: Includes drains that are completed in areas that require temporary groundwater depressurization over longer periods of time. A common example of this type of drain at Round Mountain is a horizontal drain used to gravity drain groundwater in areas where the captured water can be or must be conveyed directly to an actively operated dewatering well or sump where the diversion of groundwater is directly accounted for within existing infrastructure.

# REPORT PLATES




Plan of Operations Boundary

| | | | | |
|---|---|---|---|---|
| DRAWN BY: WEM | 03.10.10 | KINROSS Round Mountain | ROUND MOUNTAIN GOLD CORPORATION | SCALE: AS NOTED |
| DESIGNED BY: WEM | 03.10.10 | | | PROJECT NO: |
| CHECKED BY: | | | | CADFILE: |
| APPROVED: JMD | 05.27.14 | 2021 ANNUAL REPORT | VICINITY MAP | DRAWING NO. PLATE 1 |
| APPROVED: | | | | REV. 0 |




**Legend**

Phase W Expansions

- Authorized Expansion Areas
- Phase W Pit Boundary (2017)
- Authorized Plan of Ops Boundary
- RMX Pit Boundary (2010)
- Rapid Infiltration Basins (RIBs)

2021 RMGC Ortho & Google Earth

N

Graphic Scale

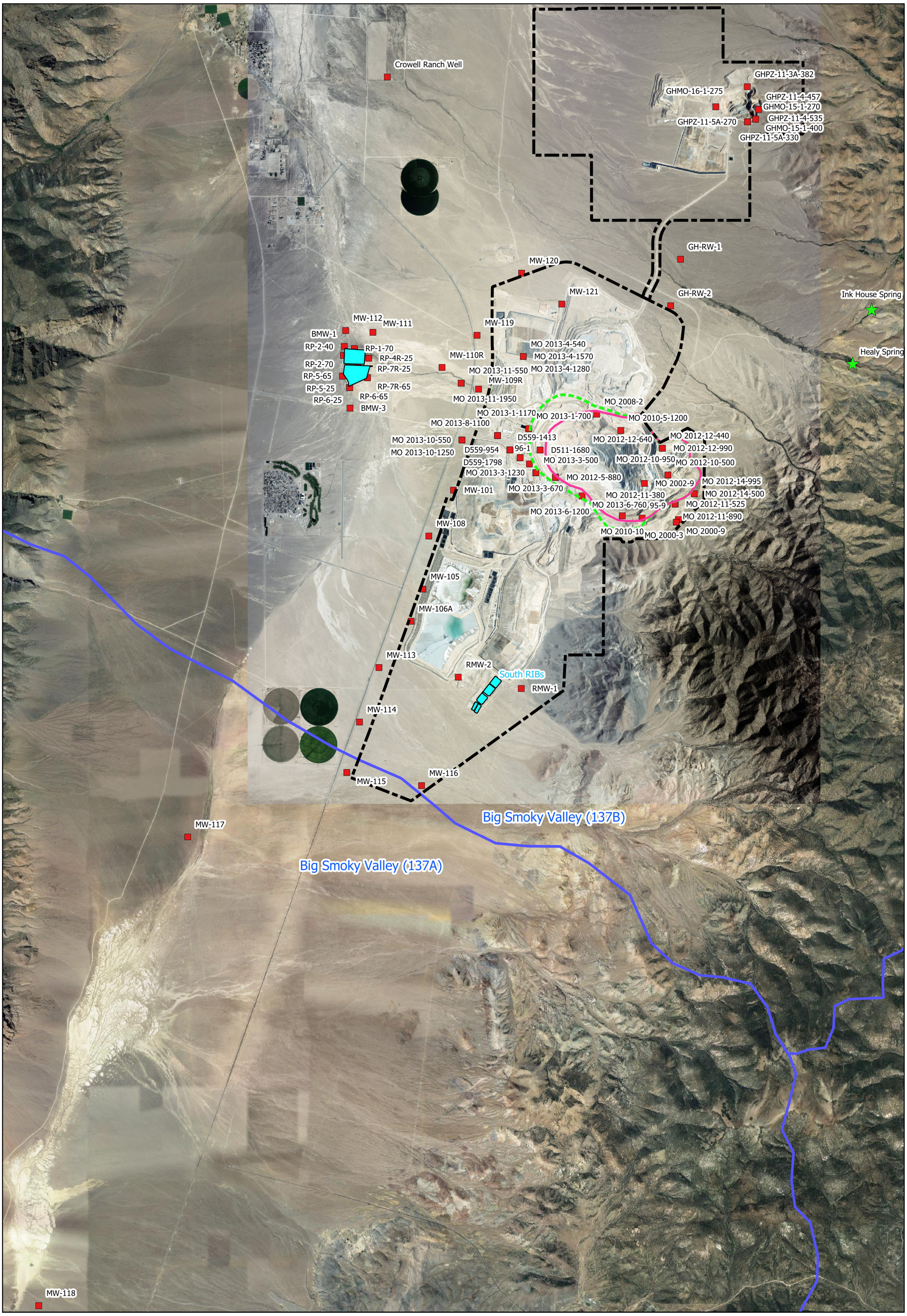
0 1 2 3 4 mi

KINROSS Round Mountain

**2021 Annual Report**

Non-Pumping Monitoring Sites Reported to NDWR

PLATE 2




**Legend**

Phase W Pit Boundary (2017 )

Authorized Plan of Ops Boundary

RMX Pit Boundary (2010)

Phase W Expansion Areas

Authorized Expansion Areas

2020 RMGC Ortho & Google Earth

2021 NDWR Monitoring Sites

MW

PW (Not Shown)

Spring

N

Graphic Scale

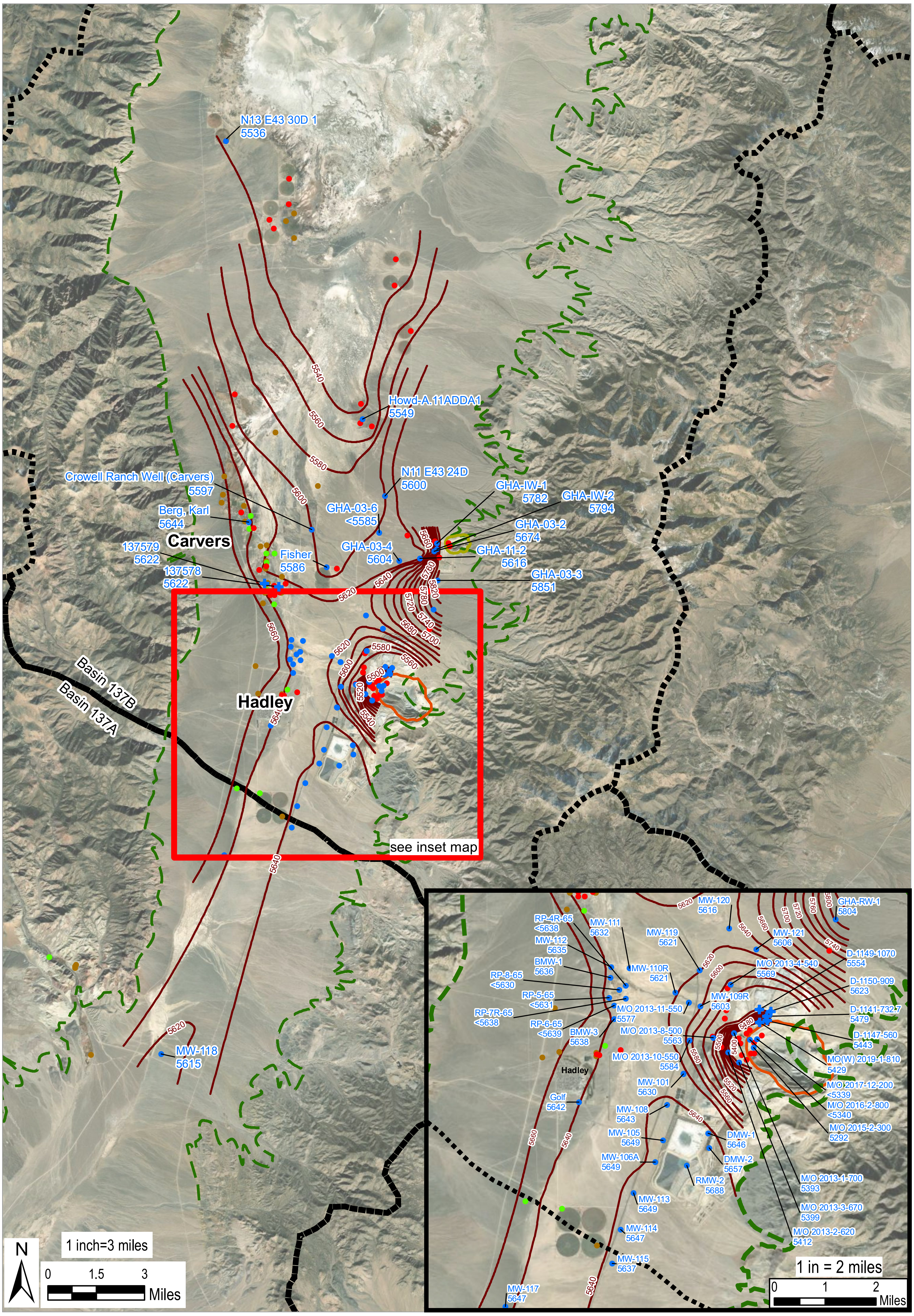
0 1 2 3 4 mi

KINROSS Round Mountain

**2021 Annual Report**

Non-Pumping Monitoring Sites Reported to NDWR

PLATE 3




*Labels and levels shown for 2021 data. Levels for pre-2021 data listed in "Groundwater elevations for regional map_24Jan2022.xlsx"

- Water level measured 2021
- Water level measured 2010-2020
- Water level measured 2000-2010
- Water level measured 1990-1999
- + symbol denotes site added to map in 2021
- Alluvial groundwater contours, 20 ft interval
- RMX permitted pit boundary
- GH permitted pit boundary
- Alluvial-bedrock contact
- Hydrogrpahic Basin Boundaries

KINROSS Round Mountain

PITEAU ASSOCIATES
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

| Big Smoky Valley alluvial well locations and water levels | | | |
|---|---|---|---|
| CLIENT: Round Mountain Gold Corporation | PROJECT: 2021 Annual report | | |
| JOB #: | DRAWN: MB | CHECKED: MA | |
| DATE: January 2022 | PLATE: 4 | | |