



**GROUNDWATER  
CONDITIONS  
REPORT –  
CUYAMA VALLEY  
GROUNDWATER  
BASIN**

July 2023

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**Cuyama Basin  
Groundwater  
Sustainability Agency**

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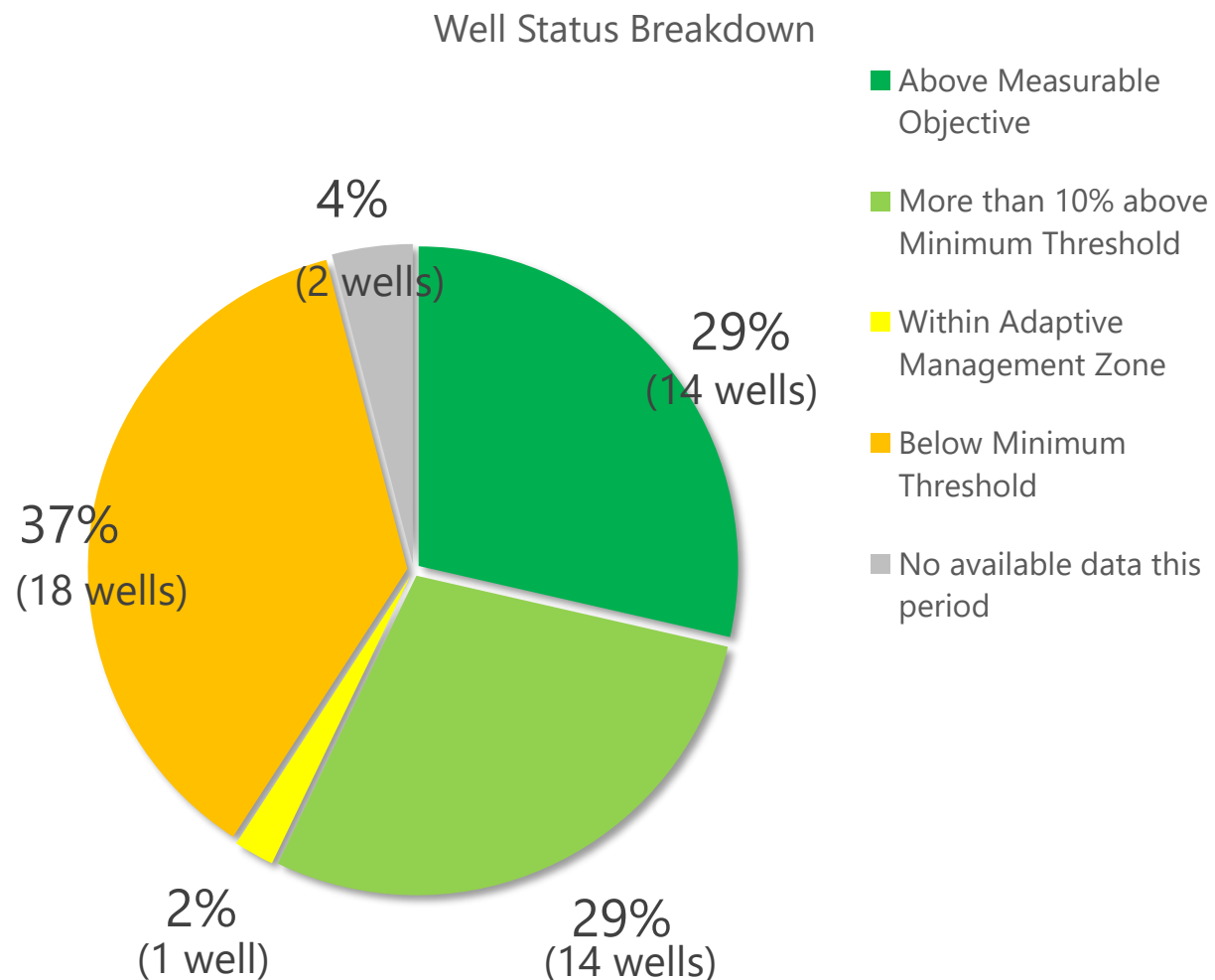
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## 1. INTRODUCTION

This report is intended to provide an update on the current groundwater level conditions in the Cuyama Valley Groundwater Basin. This work is completed by the Cuyama Basin Groundwater Sustainability Agency (CBGSA), in compliance with the Sustainable Groundwater Management Act (SGMA).

## 2. SUMMARY STATISTICS



There are currently 18 wells with groundwater levels exceeding minimum thresholds. As outlined in the GSP, undesirable results for the chronic lowering of groundwater levels occurs, "when 30 percent of representative monitoring wells... fall below their minimum groundwater elevation threshold for two consecutive years." (Cuyama GSP, pg. 3-2). Currently, 30% of representative monitoring wells (i.e. 15 wells) have been below the minimum threshold for 1 or more consecutive months.

### 3. CURRENT CONDITIONS

Table 1 includes the most recent groundwater level measurements taken in the Cuyama Basin from representative wells included in the Cuyama GSP Groundwater Level Monitoring Network, as well as the previous two measurements. Table 2 includes all of the wells and their current status in relation to the thresholds applied to each well. This information is also shown on Figure 1.

All measurements have also been incorporated into the Cuyama DMS, which may be accessed at <https://opti.woodardcurran.com/cuyama/login.php>.

**Table 1: Recent Groundwater Levels for Representative Monitoring Network**

Well	Region	Jan-23	Apr-23	Jul-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2036	2019	2016	2010	Jul-22	6
74	Central	1949	-	1949	1932	Jul-22	17
77	Central	1808	1798	1781	1772	Jul-22	10
91	Central	1807	1810	1802	1812	Jul-22	-10
95	Central	-	-	1837	1841	Jul-22	-4
96	Central	2270	2275	2269	2270	Jul-22	-1
98	Central	-	-	-	-	-	-
99	Central	2160	2223	2181	2178	Jul-22	3
102	Central	-	-	1598	-	-	-
103	Central	2041	2045	2035	2014	Jul-22	22
112	Central	-	2053	2053	2053	Jul-22	0
114	Central	-	-	-	1878	Jul-22	-
316	Central	1806	1808	1803	1811	Jul-22	-8
317	Central	-	-	1805	1813	Jul-22	-8
322	Central	2155	2222	2174	2169	Jul-22	5
324	Central	2181	2220	2189	2187	Jul-22	2
325	Central	2203	2222	2202	2201	Jul-22	1
420	Central	1807	1795	1780	1768	Jul-22	12
421	Central	1806	1802	1787	1789	Jul-22	-1
474	Central	2206	2202	2206	2203	Jul-22	2

Well	Region	Jan-23	Apr-23	Jul-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
568	Central	1828	1870	1869	1852	Jul-22	17
604	Central	1655	1656	1669	-	-	-
608	Central	-	-	1799	-	-	-
609	Central	1713	1705	1727	1692	Jul-22	35
610	Central	1812	1813	1806	1801	Jul-22	5
612	Central	1792	1801	1779	-	-	-
613	Central	1798	1788	1780	1792	Jul-22	-12
615	Central	1816	1810	1812	1795	Jul-22	17
629	Central	1819	1803	1845	-	-	-
633	Central	1805	1851	1851	-	-	-
62	Eastern	2761	2774	2783	2760	Jul-22	23
85	Eastern	2845	2844	2848	2846	Jul-22	2
100	Eastern	2850	2901	2911	2849	Jul-22	62
101	Eastern	-	-	2634	-	-	-
841	Northwestern	1672	1685	1680	1653	Jul-22	27
845	Northwestern	1644	1647	1638	1633	Jul-22	5
2	Southeastern	-	3704	3702	-	-	-
89	Southeastern	3438	3428	3440	3445	Jul-22	-5
106	Western	-	2184	2184	2183	Jul-22	1
107	Western	-	2390	2414	2392	Jul-22	23
117	Western	-	1950	1947	1945	Jul-22	2

Well	Region	Jan-23	Apr-23	Jul-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
118	Western	2212	2214	2216	2210	Jul-22	6
124	Western	-	-	-	-	-	-
571	Western	2183	2269	2238	2181	Jul-22	57
573	Western	-	2015	2015	2012	Jul-22	2
830	Far-West Northwestern	1510	1516	1523	1509	Jul-22	13
832	Far-West Northwestern	1589	1596	1596	1590	Jul-22	6
833	Far-West Northwestern	-	1426	1427	1423	Jul-22	3
836	Far-West Northwestern	1450	1450	1459	1447	Jul-22	12

**Table 2: Well Status Related to Thresholds**

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
72	Central	156	7/24/2023	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	244	7/24/2023	256	255	243		More than 10% above Minimum Threshold	No
77	Central	504	7/24/2023	450	445	400	980	Below Minimum Threshold (35 months)	No
91	Central	672	7/25/2023	625	620	576	980	Below Minimum Threshold (35 months)	No
95	Central	612	7/25/2023	573	570	538	805	Below Minimum Threshold (35 months)	No
96	Central	337	7/25/2023	333	332	325	500	Below Minimum Threshold (1 month)	No
98	Central	-		450	449	439	750	No available data since GSA monitoring began	No
99	Central	332	7/25/2023	311	310	300	750	Below Minimum Threshold (1 month)	No
102	Central	448	7/25/2023	235	231	197		Below Minimum Threshold (28 months)	No
103	Central	254	7/25/2023	290	285	235	1030	More than 10% above Minimum Threshold	No
112	Central	86	7/25/2023	87	87	85	441	More than 10% above Minimum Threshold	No
114	Central	-		47	47	45	58	No available data this period (below MT in Oct 2022, 16 months)	No
316	Central	671	7/25/2023	623	618	574	830	Below Minimum Threshold (35 months)	No



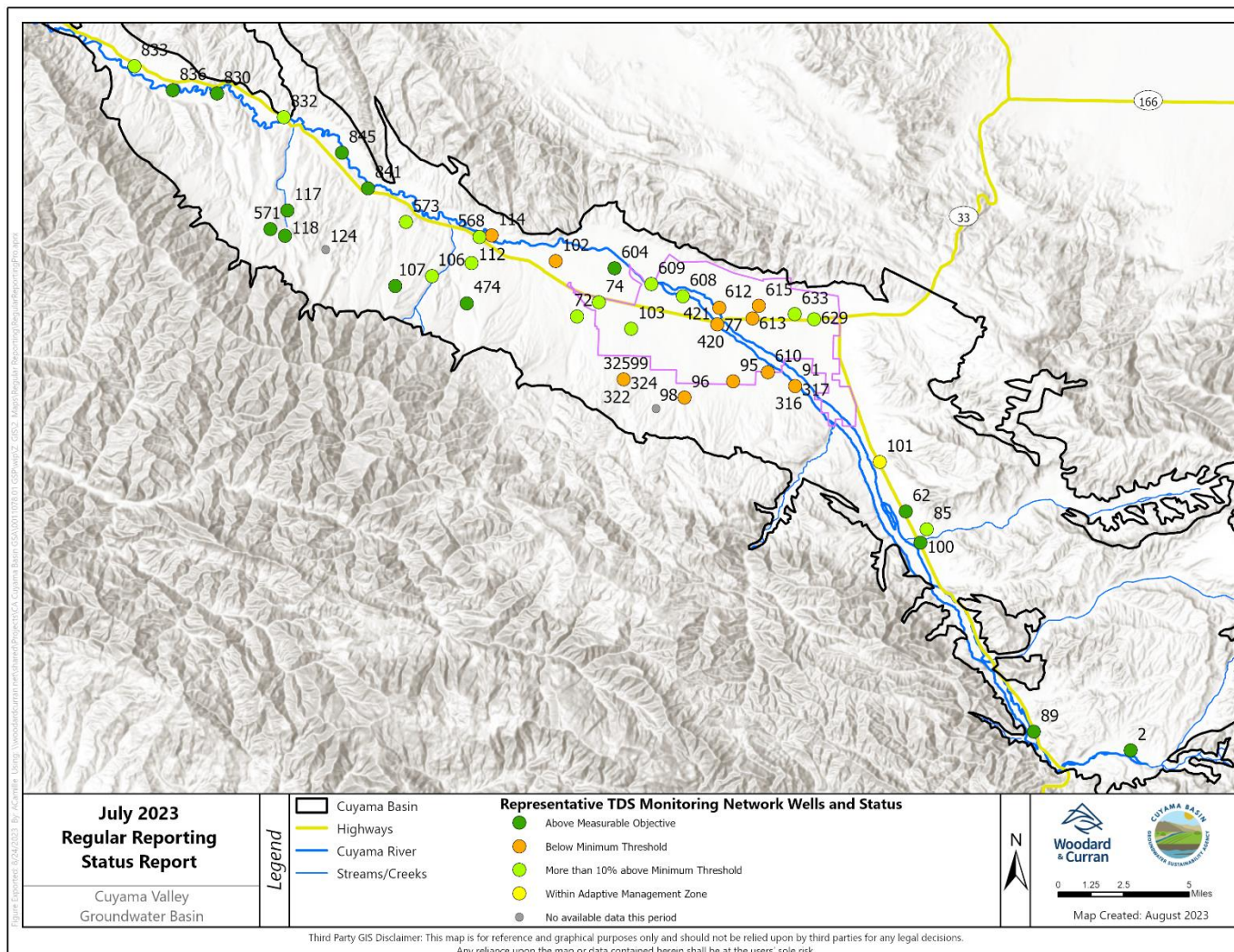
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
317	Central	669	7/25/2023	623	618	573	700	Below Minimum Threshold (35 months)	No
322	Central	339	7/25/2023	307	306	298	850	Below Minimum Threshold (1 month)	No
324	Central	323	7/25/2023	311	310	299	560	Below Minimum Threshold (1 month)	No
325	Central	310	7/25/2023	300	299	292	380	Below Minimum Threshold (1 month)	No
420	Central	506	7/24/2023	450	445	400	780	Below Minimum Threshold (35 months)	No
421	Central	498	7/24/2023	446	441	398	620	Below Minimum Threshold (35 months)	No
474	Central	163	7/25/2023	188	186	169	213	Above Measurable Objective	No
568	Central	36	7/24/2023	37	37	36	188	More than 10% above Minimum Threshold	No
604	Central	456	7/25/2023	526	522	487	924	Above Measurable Objective	No
608	Central	425	7/25/2023	436	433	407	745	More than 10% above Minimum Threshold	No
609	Central	440	7/25/2023	458	454	421	970	More than 10% above Minimum Threshold	No
610	Central	636	7/25/2023	621	618	591	780	Below Minimum Threshold (27 months)	No
612	Central	487	7/25/2023	463	461	440	1070	Below Minimum Threshold (19 months)	No
613	Central	550	7/25/2023	503	500	475	830	Below Minimum Threshold (33 months)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
615	Central	515	7/25/2023	500	497	468	865	Below Minimum Threshold (32 months)	No
629	Central	534	7/25/2023	559	556	527	1000	More than 10% above Minimum Threshold	No
633	Central	513	7/25/2023	547	542	493	1000	More than 10% above Minimum Threshold	No
62	Eastern	138	7/24/2023	182	178	142	212	Above Measurable Objective	No
85	Eastern	199	7/24/2023	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	93	7/24/2023	181	175	125	284	Above Measurable Objective	No
101	Eastern	108	7/25/2023	111	108	81	200	Within Adaptive Management Zone	No
841	Northwestern	81	7/25/2023	203	198	153	600	Above Measurable Objective	No
845	Northwestern	74	7/25/2023	203	198	153	380	Above Measurable Objective	No
2	Southeastern	18	7/24/2023	72	70	55	73	Above Measurable Objective	No
89	Southeastern	22	7/24/2023	64	62	44	125	Above Measurable Objective	No
106	Western	142	7/25/2023	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	68	7/25/2023	91	89	72	200	Above Measurable Objective	No
117	Western	151	7/25/2023	160	159	151	212	Above Measurable Objective	No
118	Western	54	7/25/2023	124	117	57	500	Above Measurable Objective	No
124	Western	-		73	71	57	161	No available data since GSA monitoring began	No
571	Western	68	7/25/2023	144	142	121	280	Above Measurable Objective	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
573	Western	69	7/25/2023	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	48	7/25/2023	59	59	56	77	Above Measurable Objective	No
832	Far-West Northwestern	34	7/24/2023	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	31	7/24/2023	96	89	24	504	More than 10% above Minimum Threshold	No
836	Far-West Northwestern	27	7/25/2023	79	75	36	325	Above Measurable Objective	No

Note: Wells only count towards the identification of undesirable results if the level measurement is below the minimum threshold for 24 consecutive months.

**Figure 1: Groundwater Level Representative Wells and Status in July 2023**



#### 4. HYDROGRAPHS

The following hydrographs provide an overview of conditions in each of the six areas threshold regions identified in the GSP.

**Figure 2: Southeast Region – Well 89**

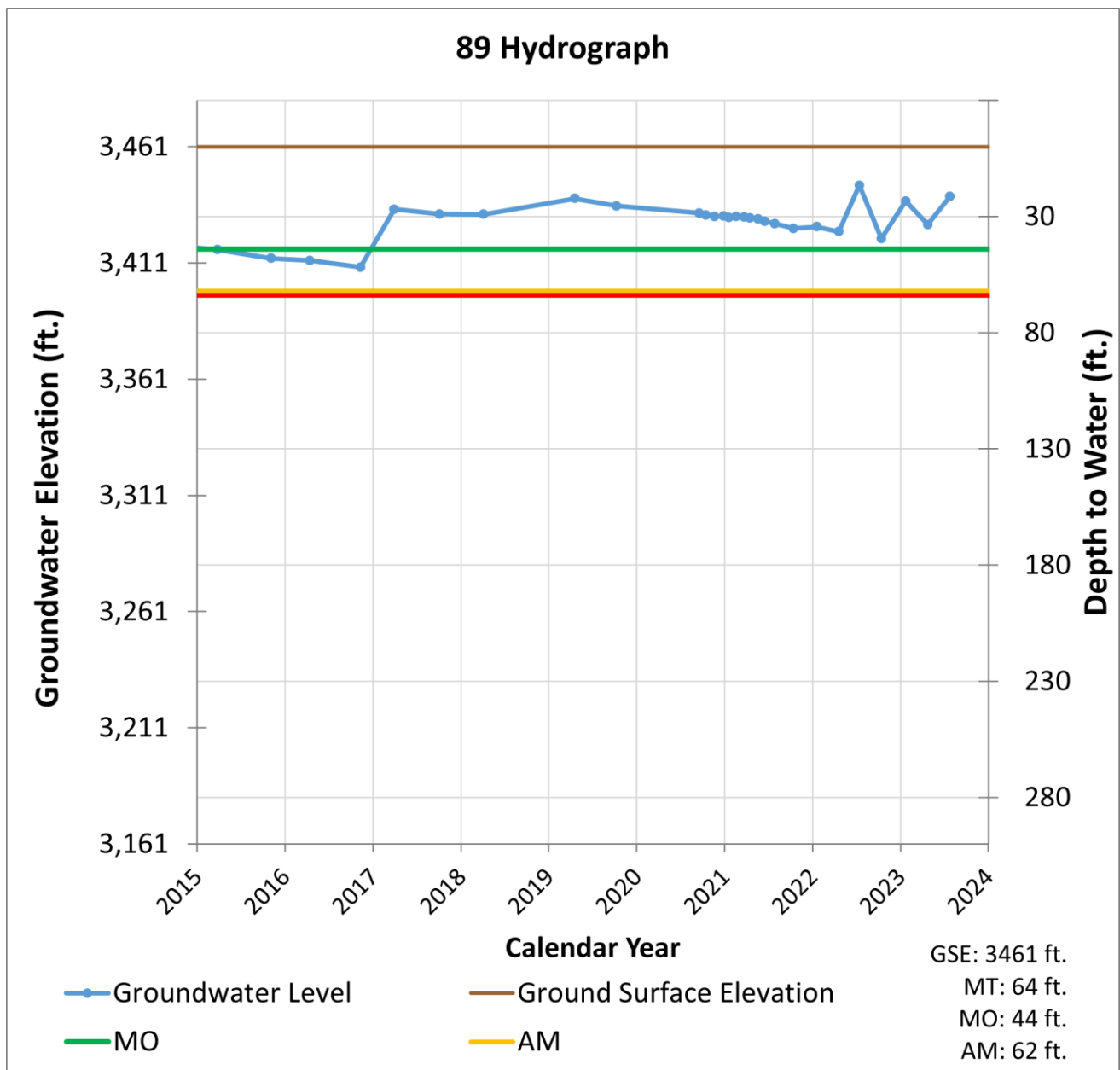


Figure 3: Eastern Region – Well 62

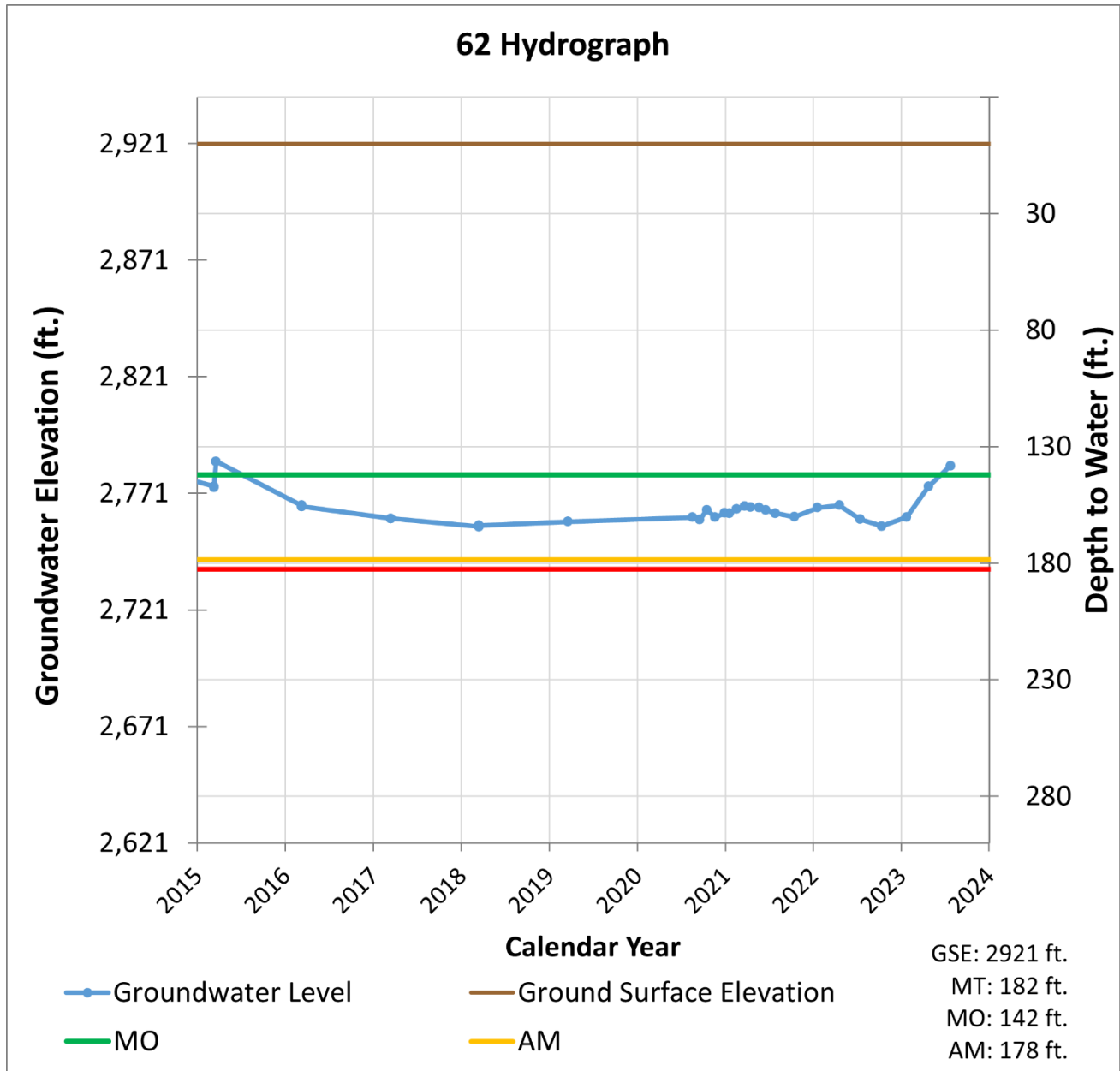


Figure 4: Central Region – Well 91

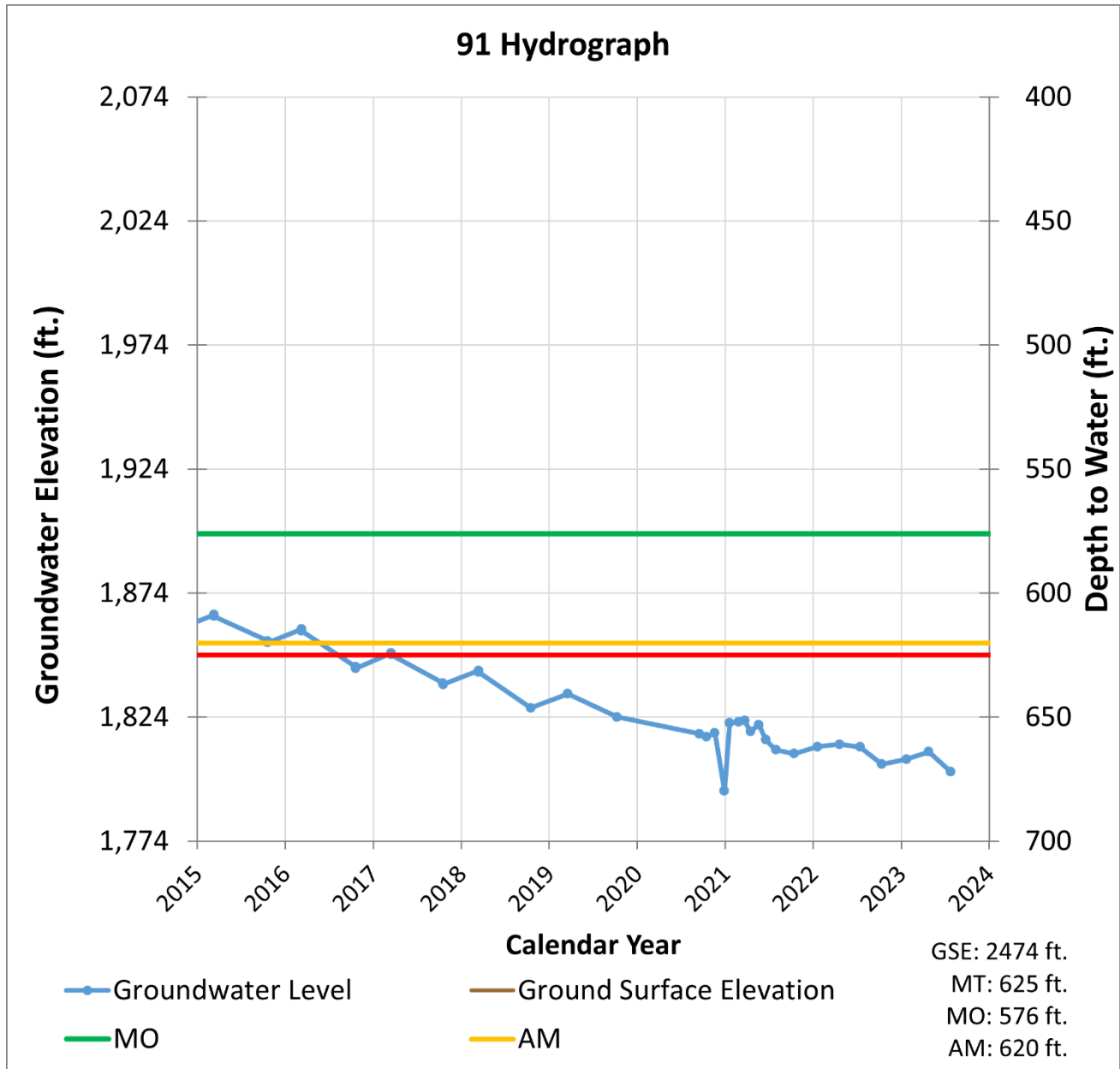


Figure 5: Central Region – Well 74

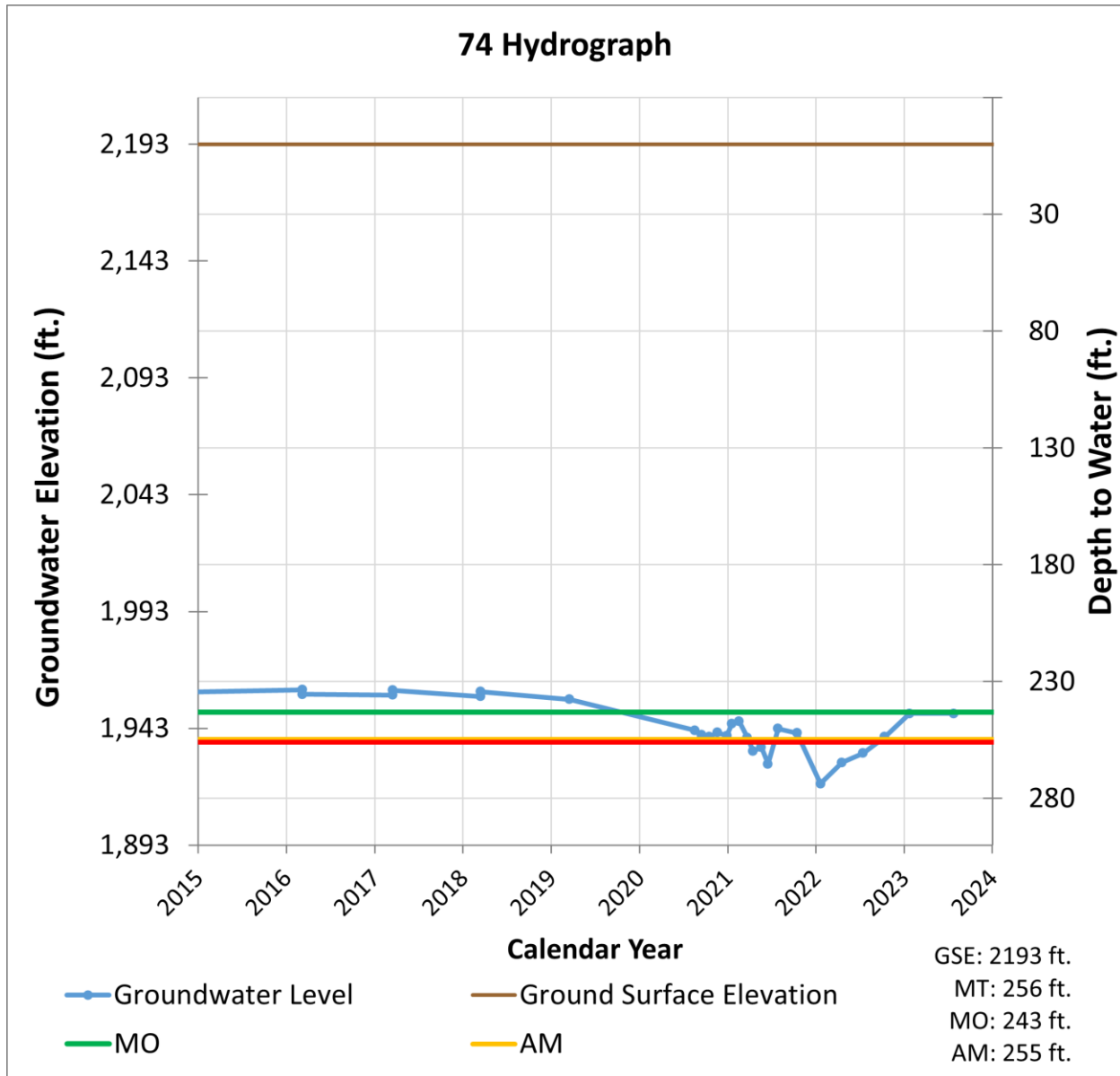




Figure 6: Western Region – Well 571

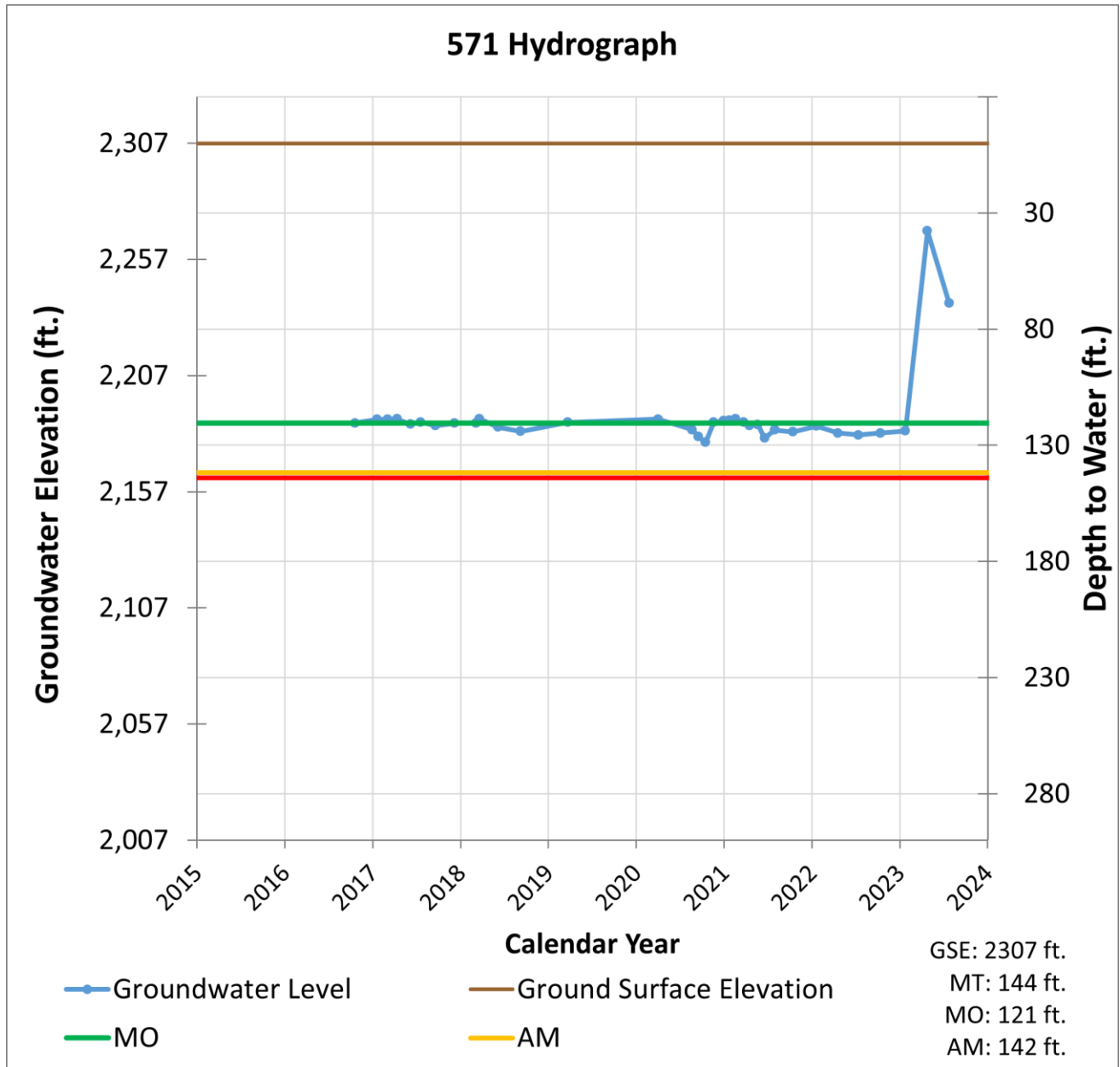
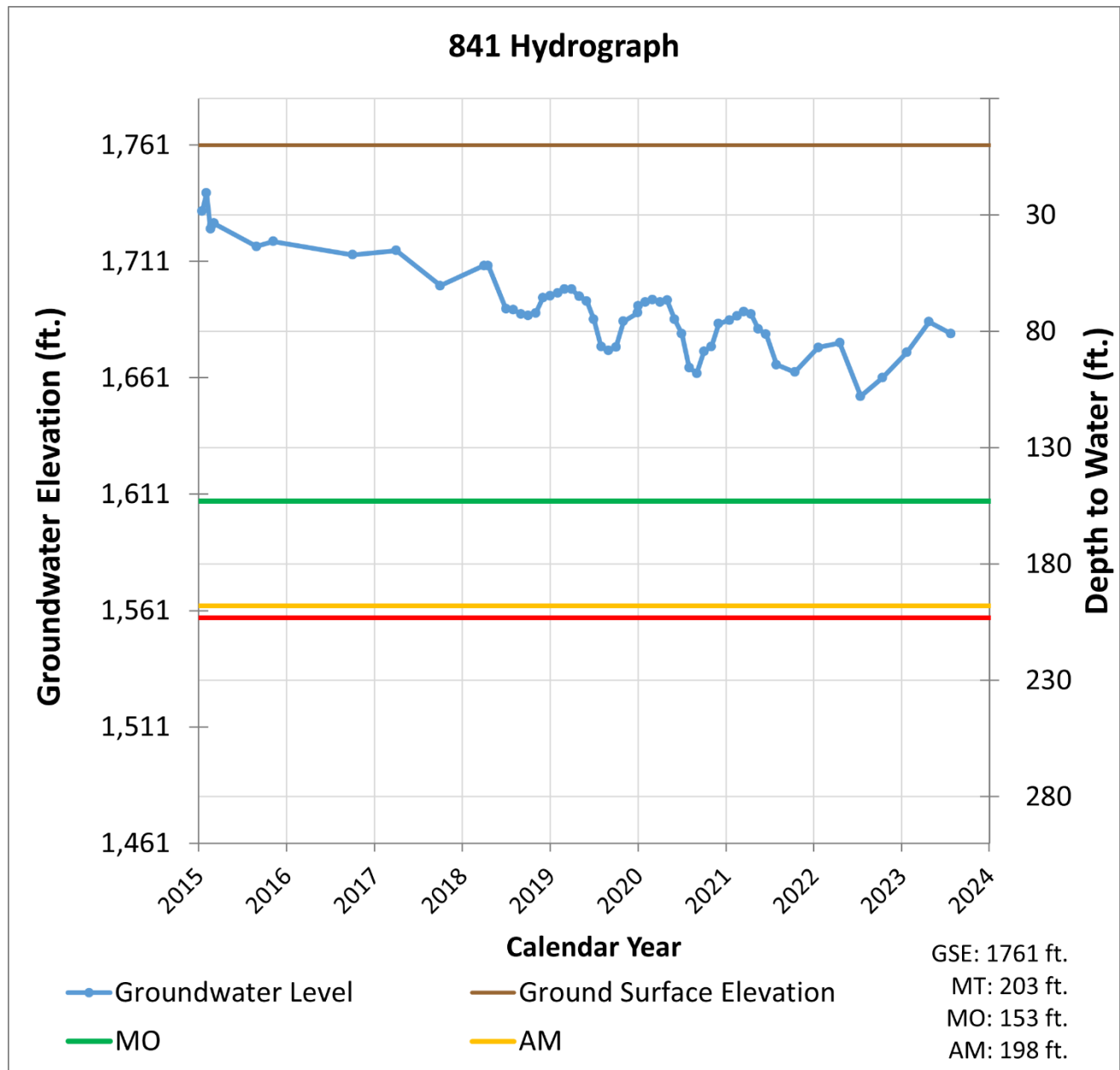
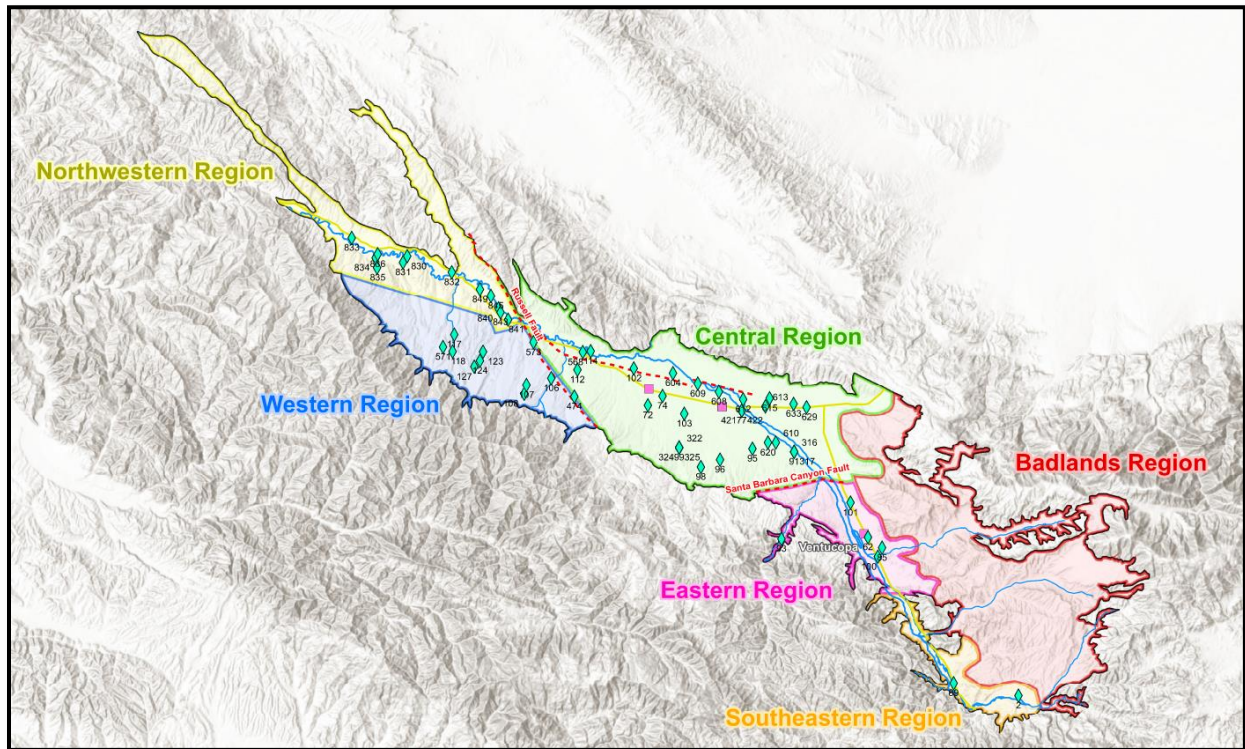


Figure 7: Northwestern Region – Well 841





**Figure 8: Threshold Regions in the Cuyama Groundwater Basin**

## 5. MONITORING NETWORK UPDATES

As shown in Table 2, there are 3 wells with no measurement during the current monitoring period. These “no measurement codes” can have different causes as described below.

- Access agreements have not been established with the landowner:
  - Wells 98, 124
- Measurement was not possible at the time when the field technician went to take measurements:
  - Wells 114



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