Appendix B: Domestic Well Assessment

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX B
Domestic Well Assessment

December 2021

APPENDIX B –DOMESTIC WELL ASSESSMENT

This appendix provides a description of the approach used to assess the potential impacts to domestic well users in the North American Subbasin (NASb or Subbasin) resulting from minimum threshold sustainable management criteria (SMC) developed for the NASb groundwater sustainability plan (GSP). The assessment consisted of five steps. The first step was to verify to the degree possible the presence of domestic wells as provided by the California Department of Water resources (DWR) (see https://data.ca.gov/dataset/well-completion-reports/resource/90ef01cc-b057-413c-8110-3e02a9db28eb). The second step was to identify domestic wells in the vicinity of where groundwater elevations are expected to decline by five feet or more. The third step was to estimate the projected groundwater levels at these nearby domestic wells. The fourth step was to compare projected groundwater levels in these domestic wells to their construction information. These steps and the assessment results are described below.

Step 1 –Verification of Potential Domestic Wells in NASb

Domestic well information for each Public Land Survey System (PLSS) section in the Subbasin was downloaded from the SGMA database. Figure B-1 shows the well densities as originally downloaded from the database. The database information includes well location (address, coordinates, and/or Assessor's Parcel Number (APN)), and well construction information. Where good location information was available, well locations were verified to ensure that wells were assigned to the correct PLSS section. Based on the SGMA database, there were an estimated total of 2,412 potentially active domestic wells in the Subbasin. During the review, wells that had duplicate records, were mis-located or had been destroyed but not recorded (including well destructions verified by records from the former McClellan Air Force Base), were removed from the total number of wells (155 wells removed) leaving a revised estimate of 2,257 domestic wells within the Subbasin. In some cases, the verified number of wells in a PLSS section increased based on the review. A summary of this information by PLSS section is included in Table B-1.

Step 2 – Identify Domestic Wells in the NASb where Five Feet or Greater Groundwater Level Declines are Projected

Figure B-2 shows the projected changes at each Representative Monitoring Site (RMS) in the NASb for groundwater elevations. The RMS locations are where SMC are established in the NASb. For RMS locations that had a projected five feet or greater decrease in depth to groundwater, domestic wells nearby were identified. The RMS used in the evaluation, their estimated change in groundwater level, the nearby PLSS sections assessed, and the number of domestic wells assessed are shown in Table B-2. There were 1,331 domestic wells in the vicinity of RMS where projected groundwater levels could decline by five feet or more.

Step 3 – Estimate Projected Groundwater Levels in Domestic Wells based on Minimum Thresholds at RMS Locations

Using the known groundwater elevation and ground surface elevation at each RMS, a depth to groundwater was calculated to represent a "baseline" condition (i.e., conditions before modeled future projections). For most RMS locations, the average of Fall 2014 and Fall 2015 was used. Where RMS locations did not have data for that period, more recent data (typically 2018 or 2019) were used. The baseline depth to water for nearby domestic wells was then interpolated based on the characteristics of the Fall 2019 depth to water contour map, which is shown in Figure B-3. The projected depth to groundwater for each domestic well was then calculated by subtracting the projected decline at the nearest RMS from the domestic well baseline depth to water.

Step 4 – Comparison of Projected Groundwater Levels to Domestic Well Construction

With a projected depth to water at each of the 1,331 domestic wells along with construction information, an assessment of anticipated impacts to domestic users can be made. For each domestic well, the total depth, depth to first open interval, and year of construction were reviewed. Total depth was used because it represents the most extreme impact on a well if projected water levels are deeper (i.e., the well would go completely dry). The depth of first open interval was used because it represents a more conservative level of impact in that it would indicate that the open interval of the completed well is fully saturated with groundwater; maintaining groundwater above this interval preserves access to groundwater for the domestic users. Note that no domestic wells were eliminated from the NASb well database based on age. However, wells greater than 50 years old (1970 was used for this evaluation) are considerably less likely to be in service today. Destruction records are sporadic, so confirmation of destruction is difficult.

To compare the projected levels associated with NASb SMC to domestic well construction, graphs were prepared for each of the eighteen RMS locations with projected declines of five feet or more. On the graph, all nearby domestic wells with their projected depth to water, first open interval, and total depth are also plotted. Finally, the data are shown with reference to the year the well was constructed on the horizontal axis. Plotting by date helps observe where wells have been constructed deeper through time in areas that experienced groundwater declines.

The graphs are shown in Figures B-4 through B-21. The green markers represent the projected depth to groundwater at each domestic well. The orange markers represent the depth of the first open interval of each well. The solid black vertical lines represent the total depth of each well. Also shown on the graph is the RMS well with its Measurable Objective shown as a blue horizontal line and its Minimum Threshold shown as a red horizontal line. These are only included for reference and should not be applied to a domestic well on the graph. The most important consideration in evaluating the graphs is the relationship of the green marker to the orange marker. Where the green marker is above the orange marker, the

well is considered protected. Where the green marker is below the orange marker, the well may not be protected with respect to having continued access to groundwater.

Assessment Results

To assess the potential impacts to domestic wells from the NASb SMC, the baseline and projected depth to groundwater at each location were compared to the total depth (the point at which a well is dry) and the depth to first open interval (the point at which the well would experience operational difficulties). The baseline comparison is important because it helps isolate wells that may have already been impacted at the time of SGMA passage from those that could be impacted from future usage and management of the basin (the responsibility of GSAs under SGMA). The net difference then between the baseline condition and the projected condition is an indicator of the potential effects of the NASb SMC.

Table B-3 shows the results of the assessment with respect to whether domestic wells would go dry. In terms of maintaining groundwater levels above their total depth, domestic users are protected. Based on the analysis, no domestic wells of up to 50 years old would go dry (e.g., drop below their total depth). Of wells that are greater than 50 years old, only 2 percent (28 of the 1,331 wells assessed) could potentially drop below their total depth; many of these may no longer in use.

Table B-4 shows the assessment results with respect to whether domestic wells could see groundwater levels drop below their first open interval. In terms of maintaining groundwater levels above their first open interval, domestic users are also protected. Of wells that are up to 50 years old, less than 1 percent (9 wells of 1,331 wells) could potentially drop below the first open interval. Of wells greater than 50 years old, 5 percent (66 wells of 1,331 wells) could potentially drop below their first open interval. Again, many of the wells are over 50 years old and may longer be in use.

This assessment concludes that the NASb SMC will not lead to significant and unreasonable undesirable results with respect to domestic users. It is also important to remember that almost none of the projected changes to groundwater elevations in the NASb would occur within the next five years. Confirmation of the status of these domestic wells is a management action in the NASb GSP (see **Section 9.2.6** of the GSP). The results of implementing the management action to better understand the status of these wells will be considered when conducting the required five-year assessment of the GSP.

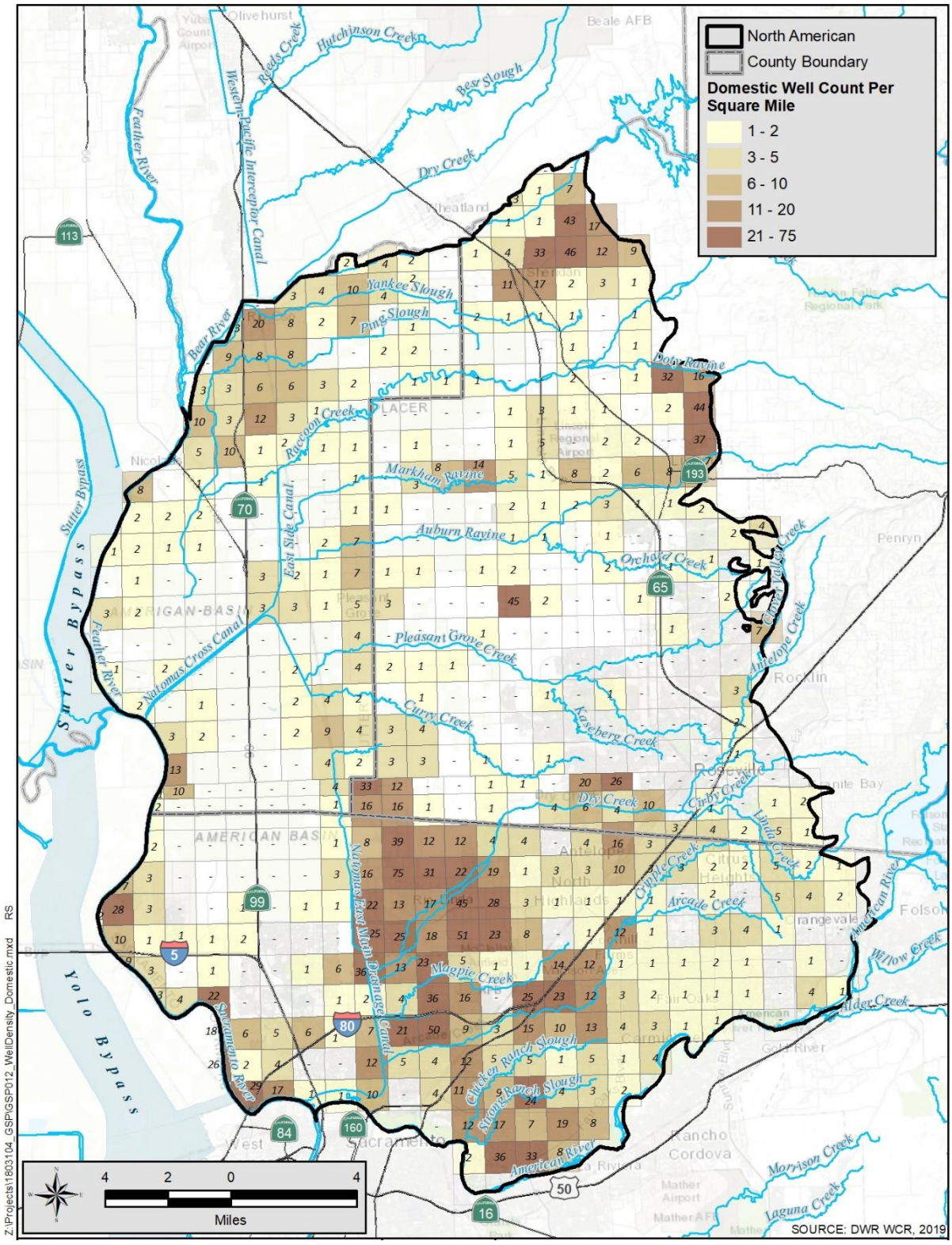


Figure B-1. Domestic Well Density from DWR SGMA database

Table B-1. Well Verification Data Summary

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
8	5	1	33	35
8	5	2	36	26
8	5	3	2	2
8	5	10	0	0
8	5	11	0	0
8	5	12	0	0
8	6	5	5	5
8	6	6	8	7
9	3	1	3	2
9	3	2	9	5
9	3	12	3	1
9	4	1	6	5
9	4	2	1	1
9	4	3	0	0
9	4	4	0	0
9	4	5	1	1
9	4	6	0	0
9	4	7	4	3
9	4	8	22	17
9	4	9	0	0
9	4	10	0	0
9	4	11	0	0
9	4	12	1	1
9	4	13	1	1
9	4	14	6	5
9	4	15	5	6
9	4	16	6	5
9	4	17	18	12
9	4	20	26	20
9	4	21	2	1
9	4	22	4	6
9	4	23	0	0
9	4	24	0	0
9	4	25	1	1
9	4	26	1	1
9	4	27	17	9
9	4	28	29	21
9	4	35	1	1
9	4	36	11	10
9	5	1	1	0
9	5	2	1	0
9	5	3	5	5
9	5	4	23	29
9	5	5	13	15
9	5	6	36	36
9	5	7	1	0
9	5	8	4	4
9	5	9	36	30
9	5	10	16	15
9	5	11	0	0

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
9	5	12	25	26
9	5	13	15	14
9	5	14	3	3
9	5	15	9	11
9	5	16	50	36
9	5	17	21	20
9	5	18	7	7
9	5	19	12	10
9	5	20	5	6
9	5	21	4	2
9	5	22	12	11
9	5	23	5	7
9	5	24	5	8
9	5	25	24	21
9	5	26	9	8
9	5	27	11	10
9	5	28	4	6
9	5	29	0	0
9	5	30	10	12
9	5	31	0	0
9	5	32	1	0
9	5	33	0	0
9	5	34	12	12
9	5	35	17	15
9	5	36	7	8
9	6	1	2	2
9	6	2	1	1
9	6	3	1	1
9	6	4	1	1
9	6	5	12	13
9	6	6	14	14
9	6	7	23	27
9	6	8	12	9
9	6	9	3	3
9	6	10	2	2
9	6	11	1	1
9	6	12	1	1
9	6	13	1	1
9	6	14	1	0
9	6	15	3	2
9	6	16	4	4
9	6	17	13	14
9	6	18	10	11
9	6	19	1	1
9	6	20	5	6
9	6	21	1	0
9	6	22	4	5
9	6	23	0	0
9	6	28	2	2
9	6	29	3	2
9	6	30	4	6
9	6	31	19	21

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
9	6	32	8	8
9	6	33	0	0
10	3	1	1	0
10	3	12	2	2
10	3	13	2	2
10	3	23	7	5
10	3	24	3	2
10	3	25	3	3
10	3	26	28	25
10	3	35	11	18
10	4	1	4	3
10	4	2	0	0
10	4	3	0	0
10	4	4	0	0
10	4	5	0	0
10	4	6	10	10
10	4	7	0	0
10	4	8	0	0
10	4	9	0	0
10	4	10	0	0
10	4	11	0	0
10	4	12	1	0
10	4	13	1	1
10	4	14	0	0
10	4	15	0	0
10	4	16	0	0
10	4	17	0	0
10	4	18	0	0
10	4	19	0	0
10	4	20	0	0
10	4	21	0	0
10	4	22	0	0
10	4	23	0	0
10	4	24	3	2
10	4	25	1	1
10	4	26	1	1
10	4	27	0	0
10	4	28	1	1
10	4	29	0	0
10	4	30	0	0
10	4	31	1	0
10	4	32	1	1
10	4	33	2	1
10	4	34	0	0
10	4	35	0	0
10	4	36	0	0
10	5	1	1	1
10	5	2	1	1
10	5	3	0	0
10	5	4	0	0
10	5	5	12	10
10	5	6	34	34

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
10	5	7	16	14
10	5	8	16	15
10	5	9	1	1
10	5	10	0	0
10	5	11	1	0
10	5	12	1	1
10	5	13	4	4
10	5	14	4	4
10	5	15	13	15
10	5	16	12	11
10	5	17	39	40
10	5	18	8	7
10	5	19	16	19
10	5	20	75	70
10	5	21	32	26
10	5	22	23	20
10	5	23	19	17
10	5	24	1	1
10	5	25	3	3
10	5	26	29	26
10	5	27	46	47
10	5	28	17	26
10	5	29	14	16
10	5	30	22	21
10	5	31	26	25
10	5	32	25	20
10	5	33	18	19
10	5	34	51	39
10	5	35	23	17
10	5	36	8	9
10	6	1	0	0
10	6	2	0	0
10	6	3	0	0
10	6	4	26	29
10	6	5	20	22
10	6	6	0	0
10	6	7	4	4
10	6	8	7	5
10	6	9	4	3
10	6	10	10	10
10	6	11	0	0
10	6	12	1	1
10	6	13	4	3
10	6	14	3	3
10	6	15	3	3
10	6	16	16	15
10	6	17	4	3
10	6	18	0	0
10	6	19	3	1
10	6	20	3	3
10	6	21	10	11
10	6	22	3	1

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
10	6	23	3	3
10	6	24	2	1
10	6	25	2	2
10	6	26	0	0
10	6	27	1	1
10	6	28	1	1
10	6	29	1	1
10	6	30	1	1
10	6	31	0	0
10	6	32	1	1
10	6	33	12	12
10	6	34	1	0
10	6	35	0	0
10	6	36	3	3
10	7	4	0	0
10	7	5	0	0
10	7	6	0	0
10	7	7	0	0
10	7	8	1	1
10	7	16	1	2
10	7	17	7	7
10	7	18	2	2
10	7	19	2	2
10	7	20	5	6
10	7	21	2	2
10	7	22	1	1
10	7	23	0	0
10	7	27	2	2
10	7	28	4	4
10	7	29	5	5
10	7	30	0	0
10	7	31	4	3
10	7	32	1	1
10	7	33	0	0
10	7	34	0	0
11	3	1	0	0
11	3	2	2	2
11	3	3	2	2
11	3	10	0	0
11	3	11	0	0
11	3	12	1	1
11	3	13	2	2
11	3	14	0	0
11	3	15	1	1
11	3	22	0	0
11	3	23	2	2
11	3	24	0	0
11	3	25	3	3
11	3	36	12	12
11	4	1	5	3
11	4	2	1	1
11	4	3	3	4

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
11	4	4	3	3
11	4	5	0	0
11	4	6	0	0
11	4	7	0	0
11	4	8	0	0
11	4	9	0	0
11	4	10	0	0
11	4	11	0	0
11	4	12	4	5
11	4	13	4	3
11	4	14	0	0
11	4	15	2	2
11	4	16	0	0
11	4	17	0	0
11	4	18	0	0
11	4	19	1	1
11	4	20	0	0
11	4	21	0	0
11	4	22	2	2
11	4	23	4	4
11	4	24	2	3
11	4	25	4	5
11	4	26	9	8
11	4	27	2	2
11	4	28	0	0
11	4	29	0	0
11	4	30	2	2
11	4	31	0	0
11	4	32	0	0
11	4	33	0	0
11	4	34	0	0
11	4	35	4	3
11	4	36	2	1
11	5	1	2	2
11	5	2	45	42
11	5	3	0	0
11	5	4	0	0
11	5	5	0	0
11	5	6	3	3
11	5	7	0	0
11	5	8	0	0
11	5	9	0	0
11	5	10	1	1
11	5	11	0	0
11	5	12	0	0
11	5	13	0	0
11	5	14	0	0
11	5	15	0	0
11	5	16	1	1
11	5	17	1	1
11	5	18	2	1
11	5	19	0	0

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
11	5	20	1	1
11	5	21	0	0
11	5	22	0	0
11	5	23	0	0
11	5	24	1	1
11	5	25	0	0
11	5	26	0	0
11	5	27	0	0
11	5	28	0	0
11	5	29	4	3
11	5	30	3	3
11	5	31	3	3
11	5	32	3	4
11	5	33	0	0
11	5	34	1	1
11	5	35	0	0
11	5	36	1	1
12	3	12	0	0
12	3	13	0	0
12	3	14	8	8
12	3	23	2	2
12	3	24	2	2
12	3	25	1	1
12	3	26	2	2
12	3	27	1	1
12	3	34	0	0
12	3	35	1	2
12	3	36	0	0
12	4	1	0	0
12	4	2	1	1
12	4	3	3	3
12	4	4	13	13
12	4	5	3	3
12	4	6	10	12
12	4	7	5	10
12	4	8	10	12
12	4	9	1	1
12	4	10	2	1
12	4	11	1	1
12	4	12	1	0
12	4	13	1	1
12	4	14	0	0
12	4	15	0	0
12	4	16	1	1
12	4	17	0	0
12	4	18	1	1
12	4	19	2	2
12	4	20	0	0
12	4	21	0	0
12	4	22	0	0
12	4	23	0	0
12	4	24	1	2

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
12	4	25	7	8
12	4	26	2	2
12	4	27	0	0
12	4	28	0	0
12	4	29	0	0
12	4	30	1	1
12	4	31	0	0
12	4	32	0	0
12	4	33	3	3
12	4	34	2	1
12	4	35	1	1
12	4	36	7	7
12	5	1	3	2
12	5	2	1	0
12	5	3	0	0
12	5	4	0	0
12	5	5	0	0
12	5	6	0	0
12	5	7	0	0
12	5	8	1	1
12	5	9	0	0
12	5	10	0	0
12	5	11	1	1
12	5	12	5	3
12	5	13	1	1
12	5	14	5	6
12	5	15	15	13
12	5	16	8	6
12	5	17	4	4
12	5	18	0	0
12	5	19	1	1
12	5	20	0	0
12	5	21	0	0
12	5	22	0	0
12	5	23	2	2
12	5	24	1	1
12	5	25	1	1
12	5	26	1	1
12	5	27	0	0
12	5	28	0	0
12	5	29	0	0
12	5	30	0	0
12	5	31	1	1
12	5	32	1	0
12	5	33	0	0
12	5	34	1	1
12	5	35	2	1
12	5	36	0	0
12	6	5	1	0
12	6	6	1	0
12	6	7	0	0
12	6	8	2	2

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
12	6	9	2	2
12	6	10	0	0
12	6	15	8	2
12	6	16	6	5
12	6	17	2	2
12	6	18	8	9
12	6	19	2	2
12	6	20	3	2
12	6	22	1	1
12	6	27	0	0
12	6	28	0	0
12	6	30	0	0
12	6	31	0	0
12	6	32	2	2
12	6	33	0	0
12	6	34	1	1
13	4	13	10	9
13	4	14	4	3
13	4	15	3	3
13	4	16	0	0
13	4	20	3	1
13	4	21	20	24
13	4	22	8	11
13	4	23	2	2
13	4	24	7	6
13	4	25	0	0
13	4	26	0	0
13	4	27	8	4
13	4	28	8	10
13	4	29	9	19
13	4	30	0	0
13	4	31	3	3
13	4	32	3	3
13	4	33	6	5
13	4	34	6	4
13	4	35	3	3
13	4	36	2	2
13	5	1	1	1
13	5	2	1	1
13	5	7	4	3
13	5	8	3	2
13	5	9	0	0
13	5	10	1	1
13	5	11	4	4
13	5	12	35	33
13	5	13	17	23
13	5	14	11	6
13	5	15	0	0
13	5	16	0	0
13	5	17	2	2
13	5	18	4	3
13	5	19	0	0

Township	Range	Section	Total Wells from DWR SGMA Database (Domestic)	Actual Total Domestic Wells after verification (removing mis-location, destruction or duplicates)
13	5	20	1	1
13	5	21	0	0
13	5	22	2	2
13	5	23	1	1
13	5	24	1	0
13	5	25	0	0
13	5	26	0	0
13	5	27	0	0
13	5	28	0	0
13	5	29	2	1
13	5	30	2	1
13	5	31	0	0
13	5	32	1	1
13	5	33	1	1
13	5	34	1	1
13	5	35	0	0
13	5	36	0	0
13	6	5	18	7
13	6	6	43	34
13	6	7	46	41
13	6	8	12	9
13	6	9	9	13
13	6	16	1	1
13	6	17	3	2
13	6	18	2	2
13	6	19	1	1
13	6	20	0	0
13	6	21	1	0
13	6	28	1	1
13	6	29	0	0
13	6	30	1	0
13	6	31	2	1
13	6	32	0	0
13	6	33	1	0
13	6	34	32	26
Totals:			**2,412**	**2,257**

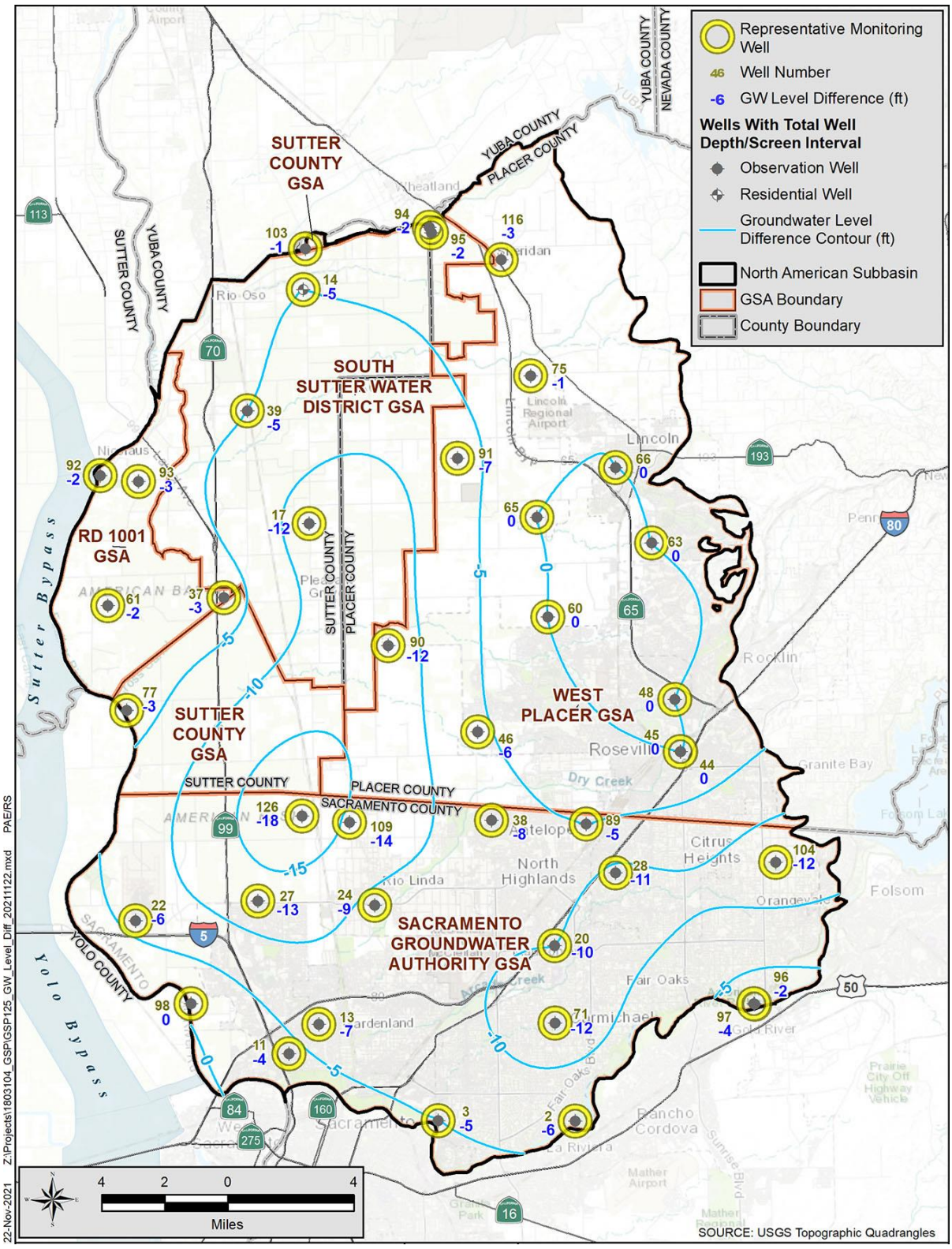


Figure B-2. Projected Groundwater Elevation Changes at RMS Location

Table B-2. NASb RMS Wells with Nearby Number of Domestic Wells

Local RMS Well No.	PLSS Section of RMS (Township/Range-Section)	Projected RMS Change (ft)	PLSS Sections in Vicinity of RMS	Number of Domestic Wells Evaluated
2	8/6-5	-6	8/5-1; 8/6-5, 6; 9/5-25, 31, 32, 36	105
3	9/5-34	-5	8/5-2;9/5-25, 26, 27, 28, 34, 35, 36	111
13	9/4-13	-7	9/4-1, 13, 14, 15, 22; 9/5-7, 8, 18, 19	50
14	13/4-23	-5	13/4-13, 21, 22, 23, 24; 13/5-18	63
17	12/4-26	-12	11/4-1, 3, 4, 12; 11/5-6; 12/4-13, 16, 25, 26, 33, 34, 36	38
20	9/6-5	-5	9/6-5, 6, 7, 8, 17, 18; 10/6-33	99
22	10/4-31	-6	9/3-2; 9/4-8; 10/3-23, 26, 35; 10/4-31	69
24	10/5-32	-9	9/5-6; 10/5-28, 29 ,31 32	130
27	10/4-27	-13	9/4-1; 10/4-27; 10/5-30	29
28	10/6-27	-11	10/6-10, 16, 17, 20, 21, 27, 33, 36	58
38	10/5-13	-8	10/5-13, 14, 15, 22, 23, 26; 10/6-8	89
39	12/04-3	-5	12/4-3, 4, 6, 7, 8; 13/4-27, 28, 29, 33, 34	89
71	9/6-17	-8	9/5-13; 9/6-5, 7, 8, 16, 17, 18, 20	77
90	11/5-17	-12	11/4-12, 13, 23, 25 11/5-6, 17, 29, 30	24
91	12/5-15	-7	12/5-14, 15, 16, 17, 23; 12/6-18	41
104	10/7-29	-12	10/7-17, 18, 20, 21, 28, 29, 31	29
109	10/5-18	-14	10/5-8, 16, 17, 18, 20	140
126	10/4-13	-18	10/4-1, 13; 10/5-6, 7, 19, 30	90
			Totals	1,331

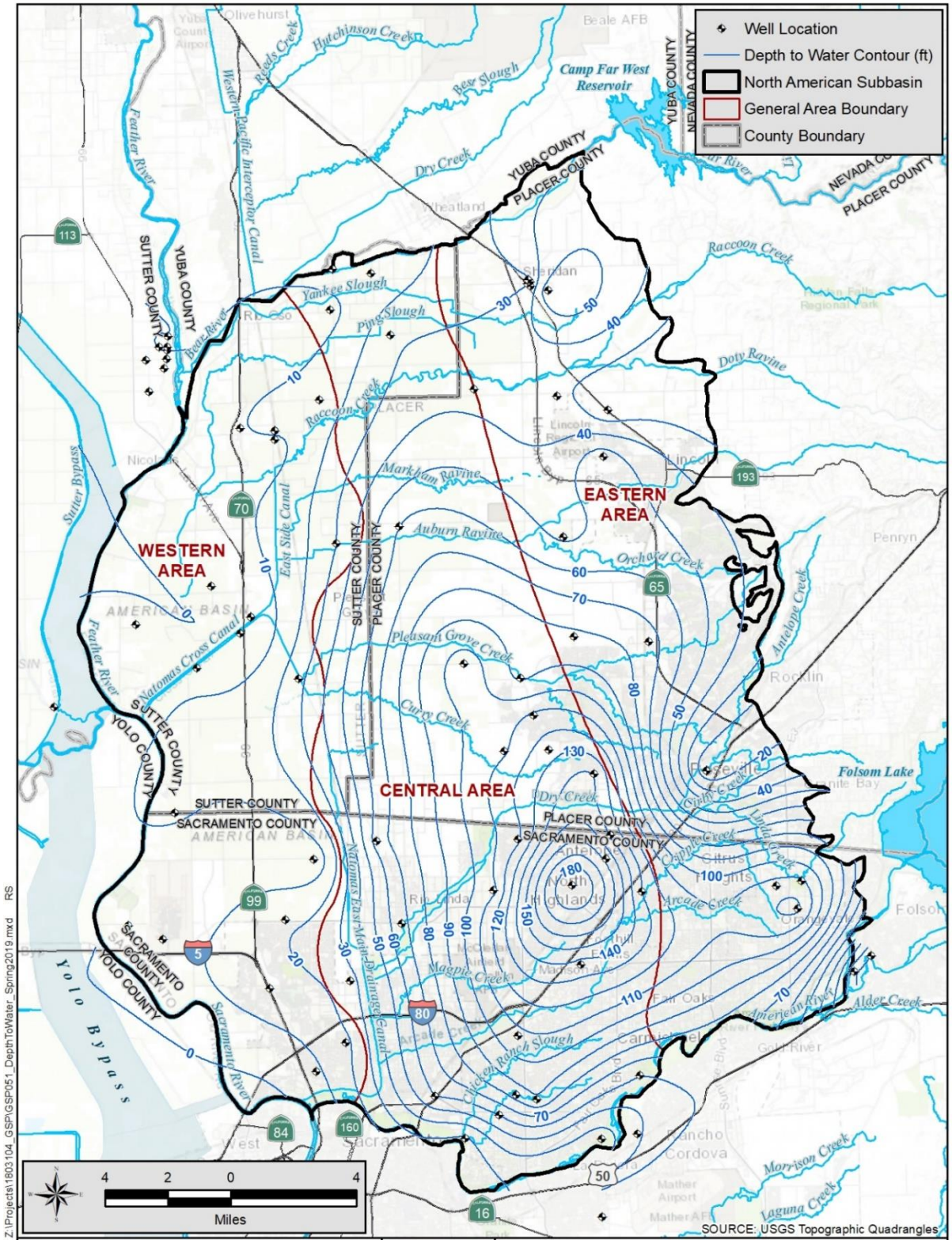


Figure B-3. Spring 2019 Depth to Water Contours

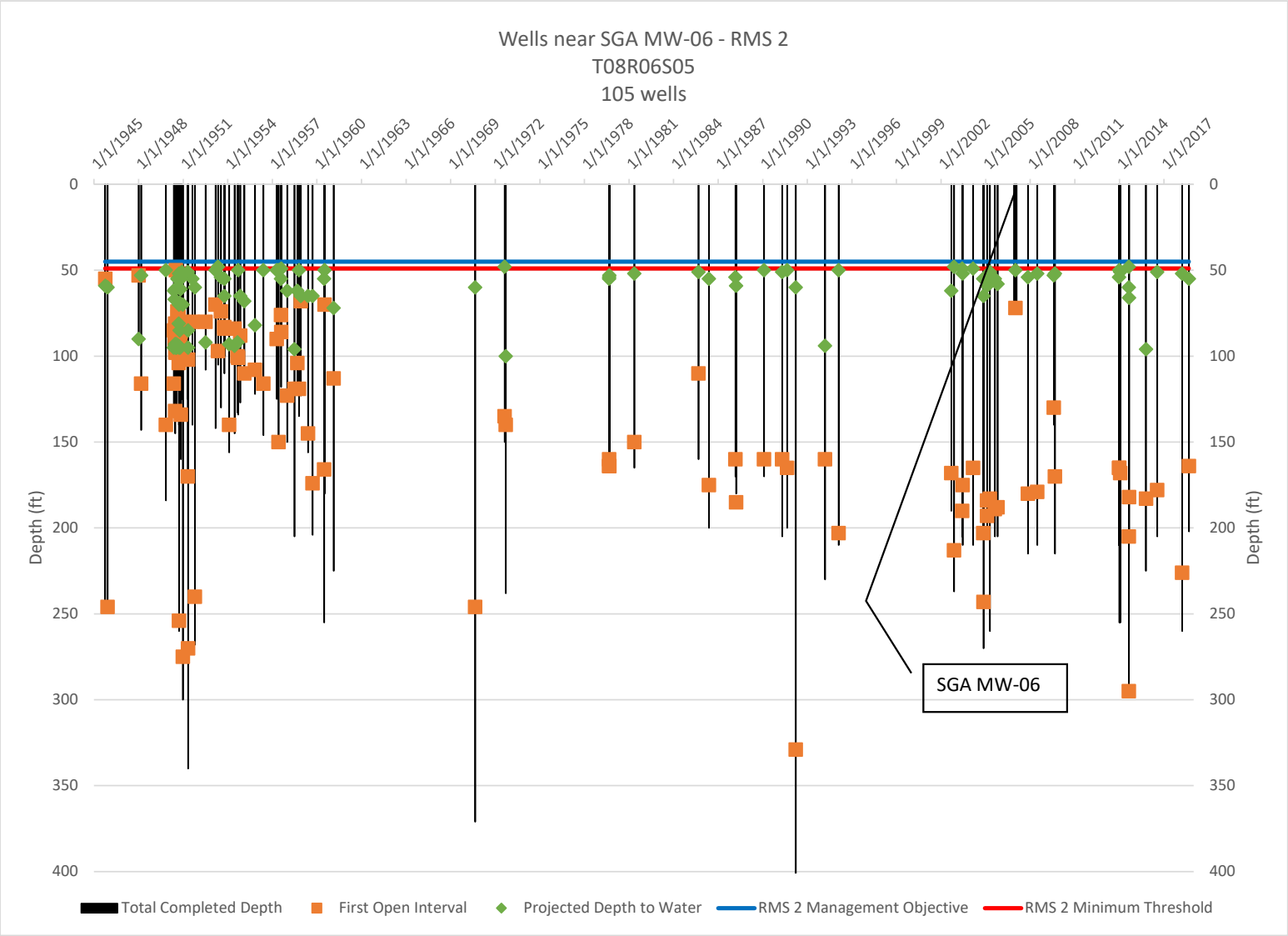


Figure B-4. Domestic Well Characteristics near RMS 2

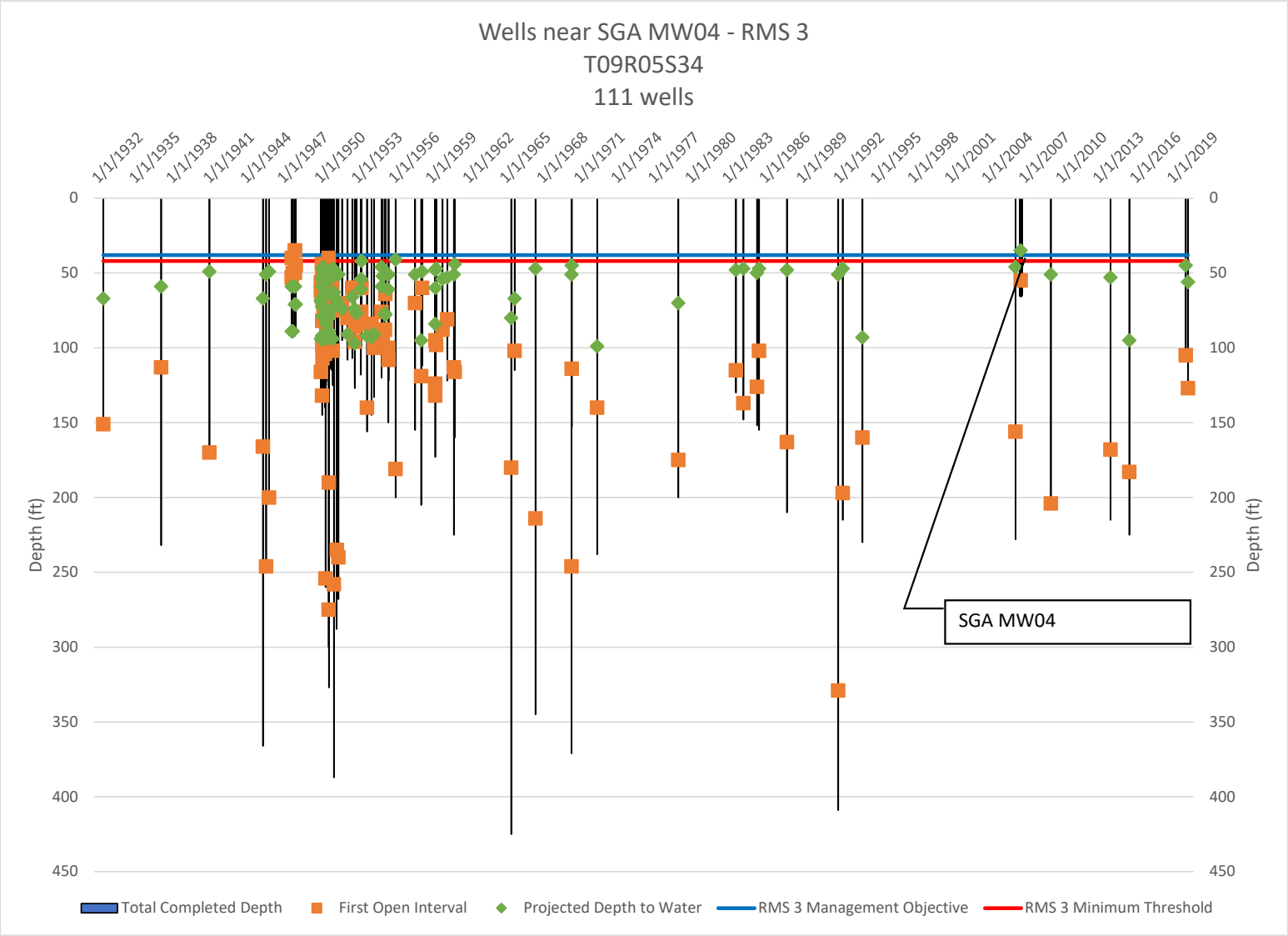


Figure B-5. Domestic Well Characteristics near RMS 3

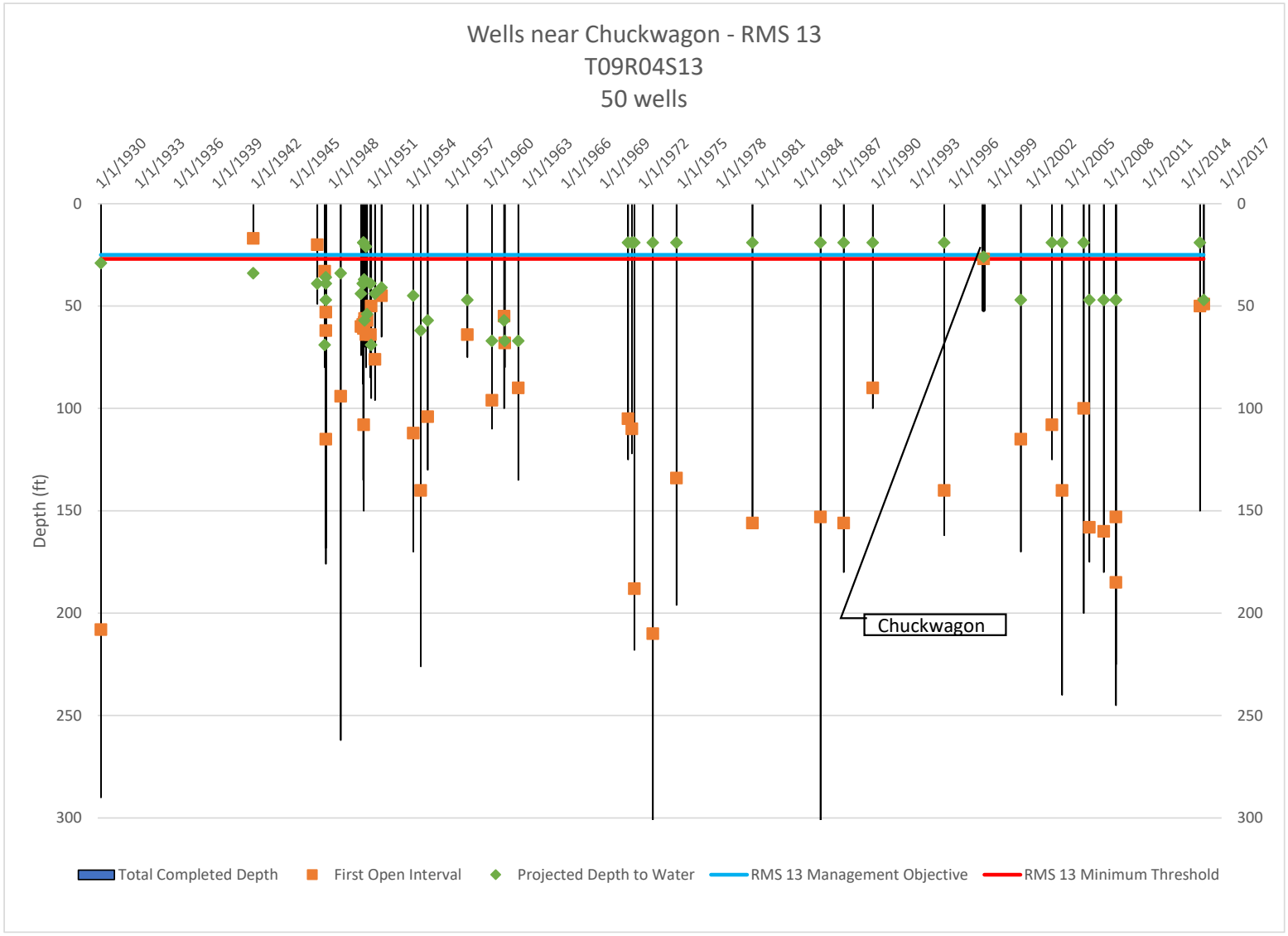


Figure B-6. Domestic Well Characteristics near RMS 13

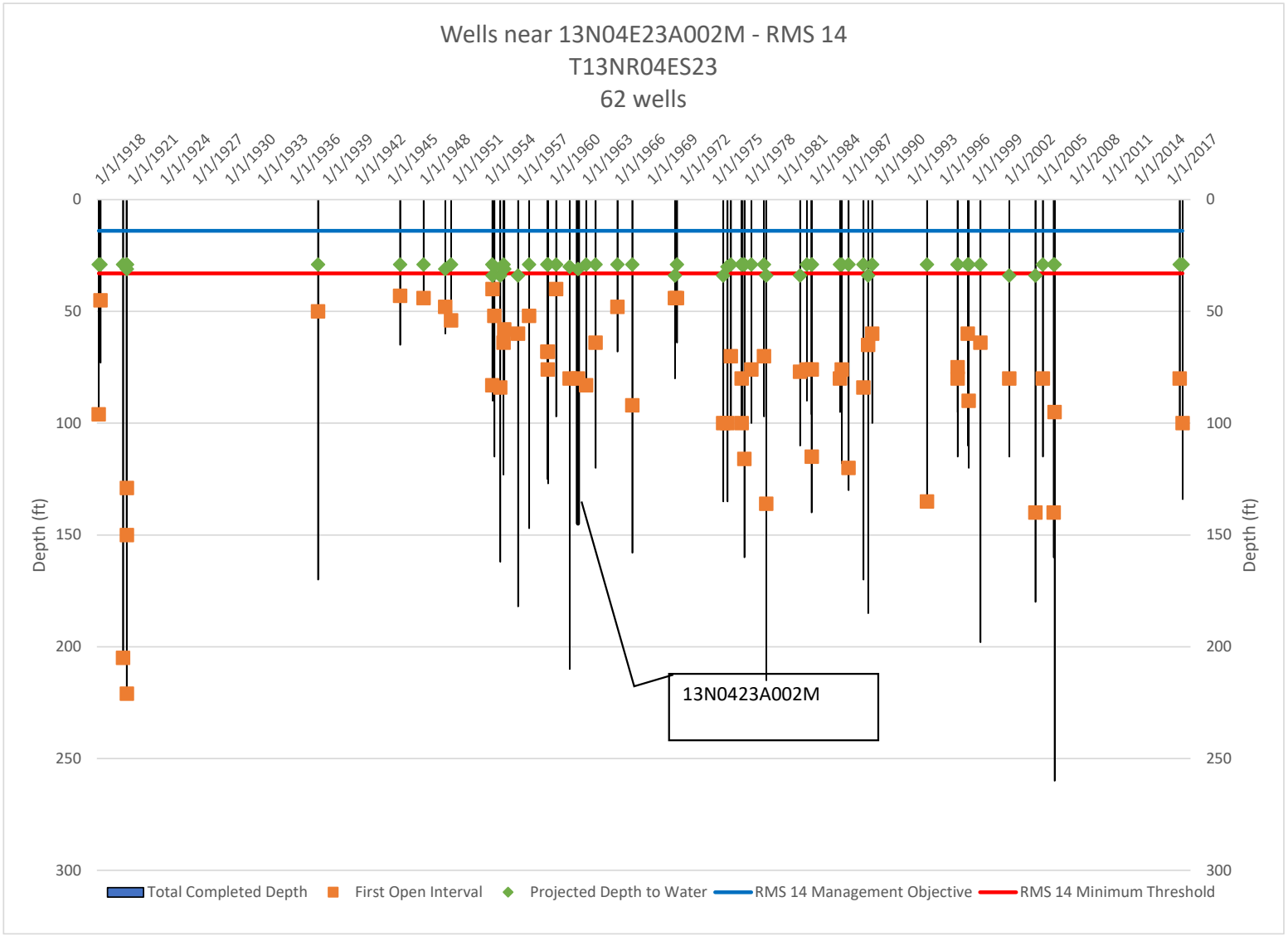


Figure B-7. Domestic Well Characteristics near RMS 14

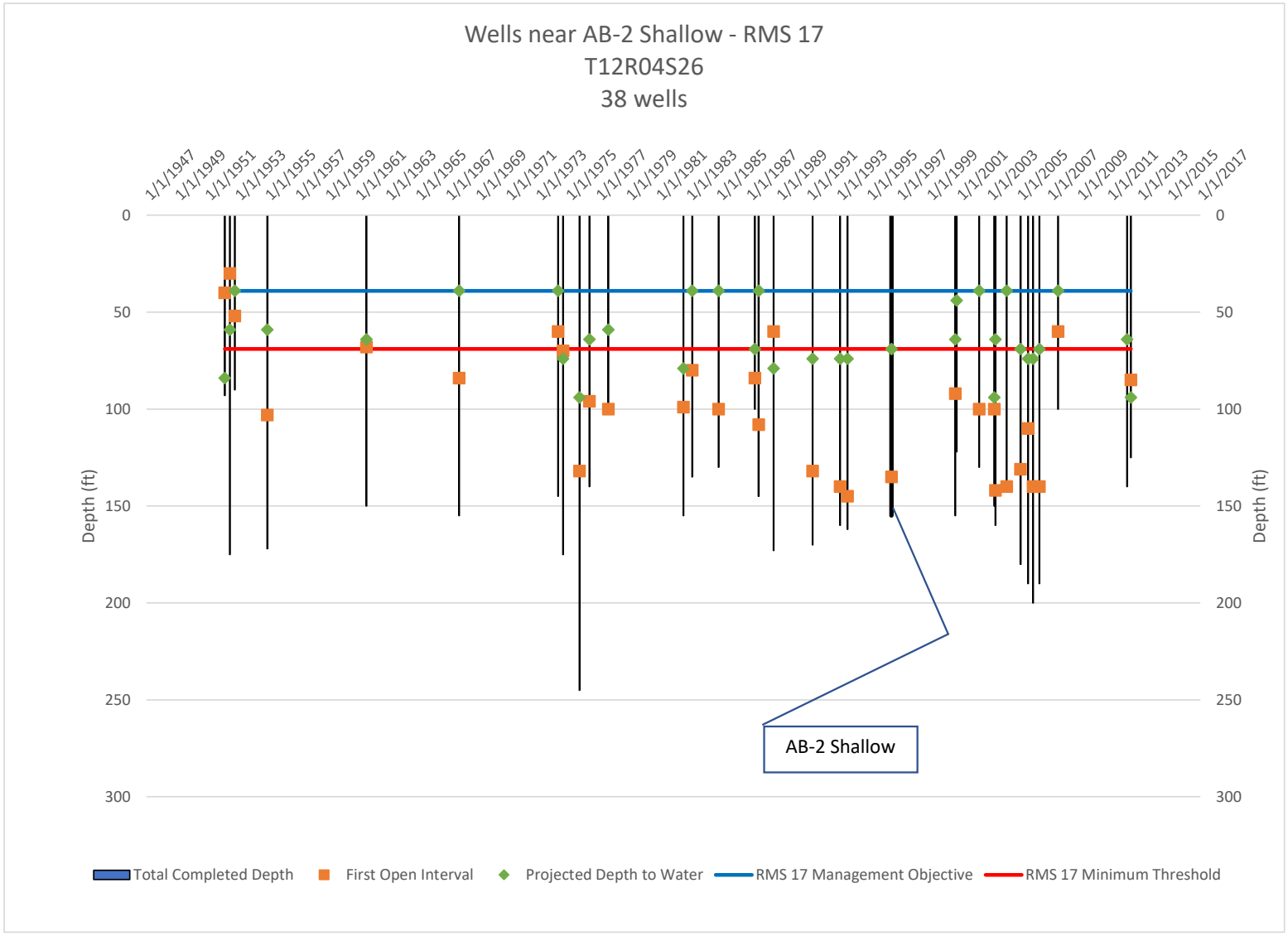


Figure B-8. Domestic Well Characteristics near RMS 17

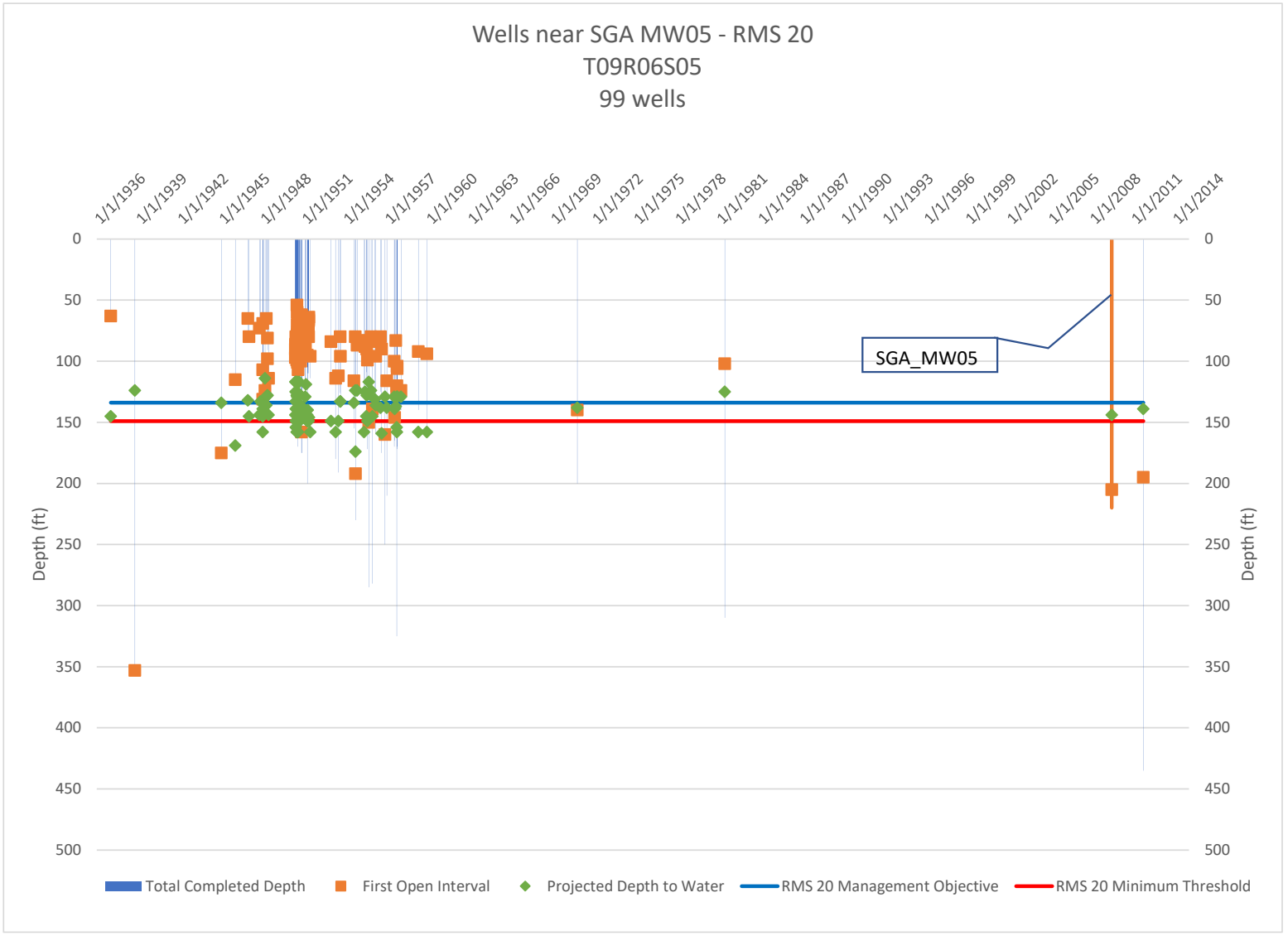


Figure B-9. Domestic Well Characteristics near RMS 20

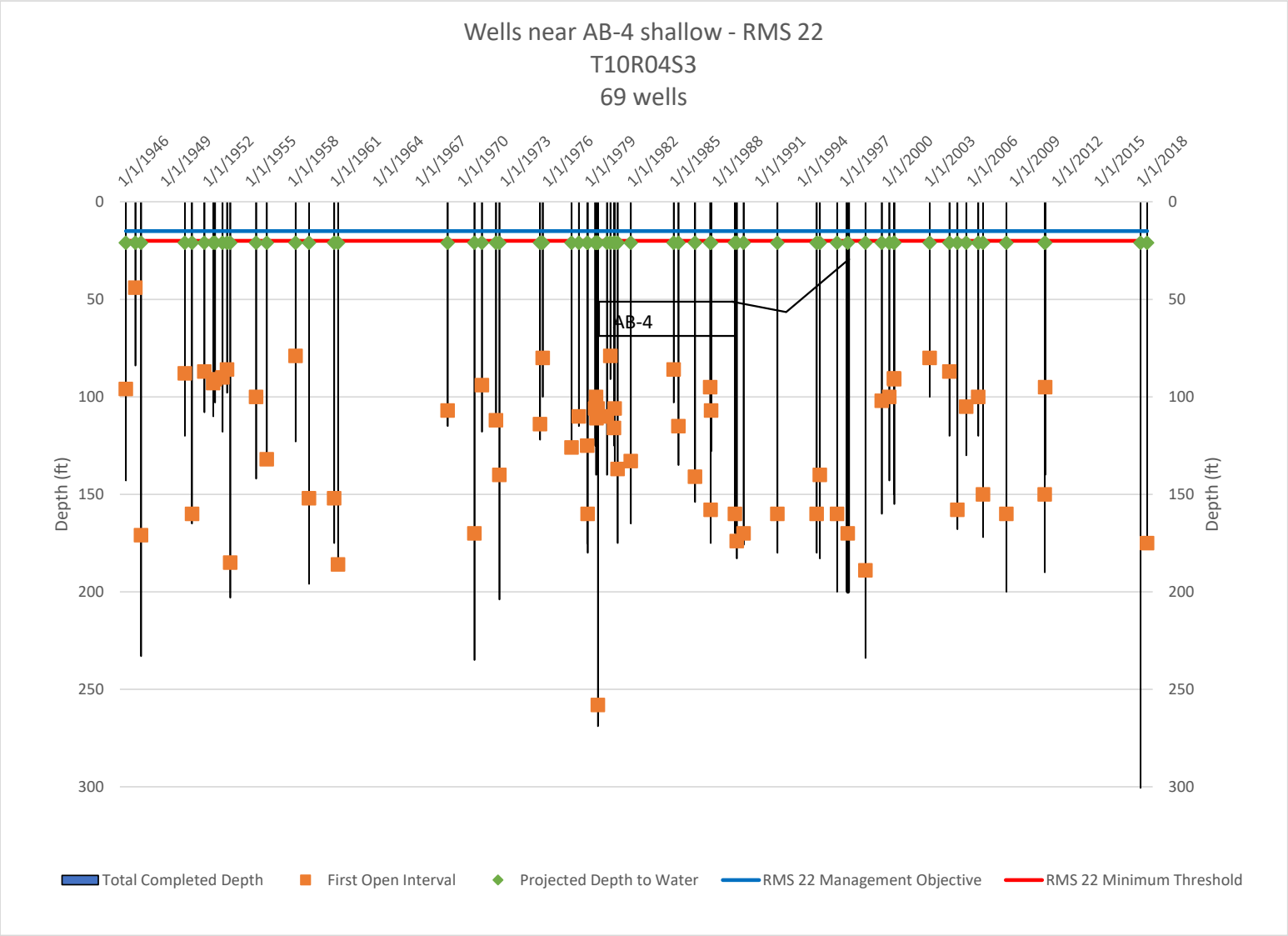


Figure B-10. Domestic Well Characteristics near RMS 22

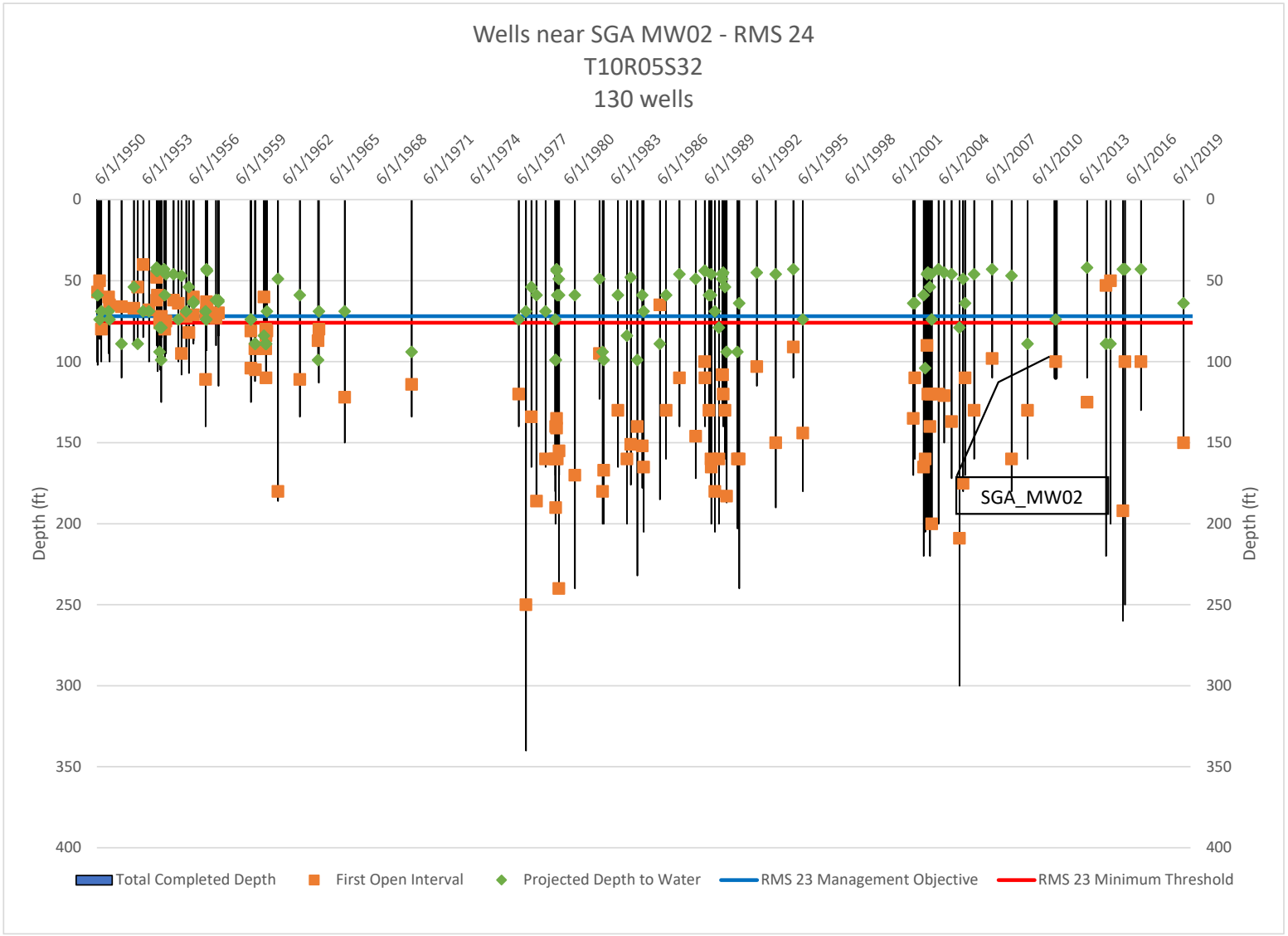


Figure B-11. Domestic Well Characteristics near RMS 24

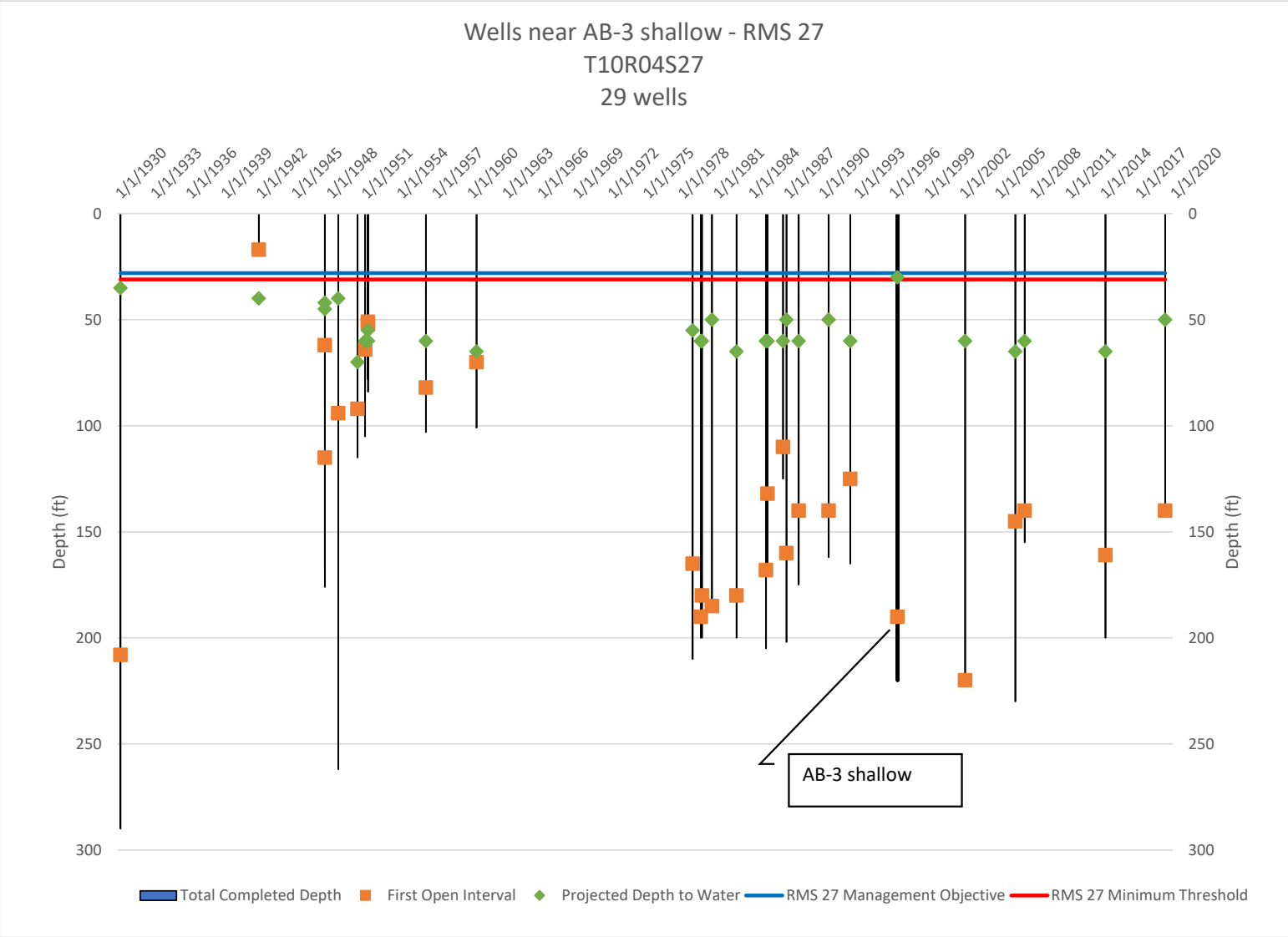


Figure B-12. Domestic Well Characteristics near RMS 27

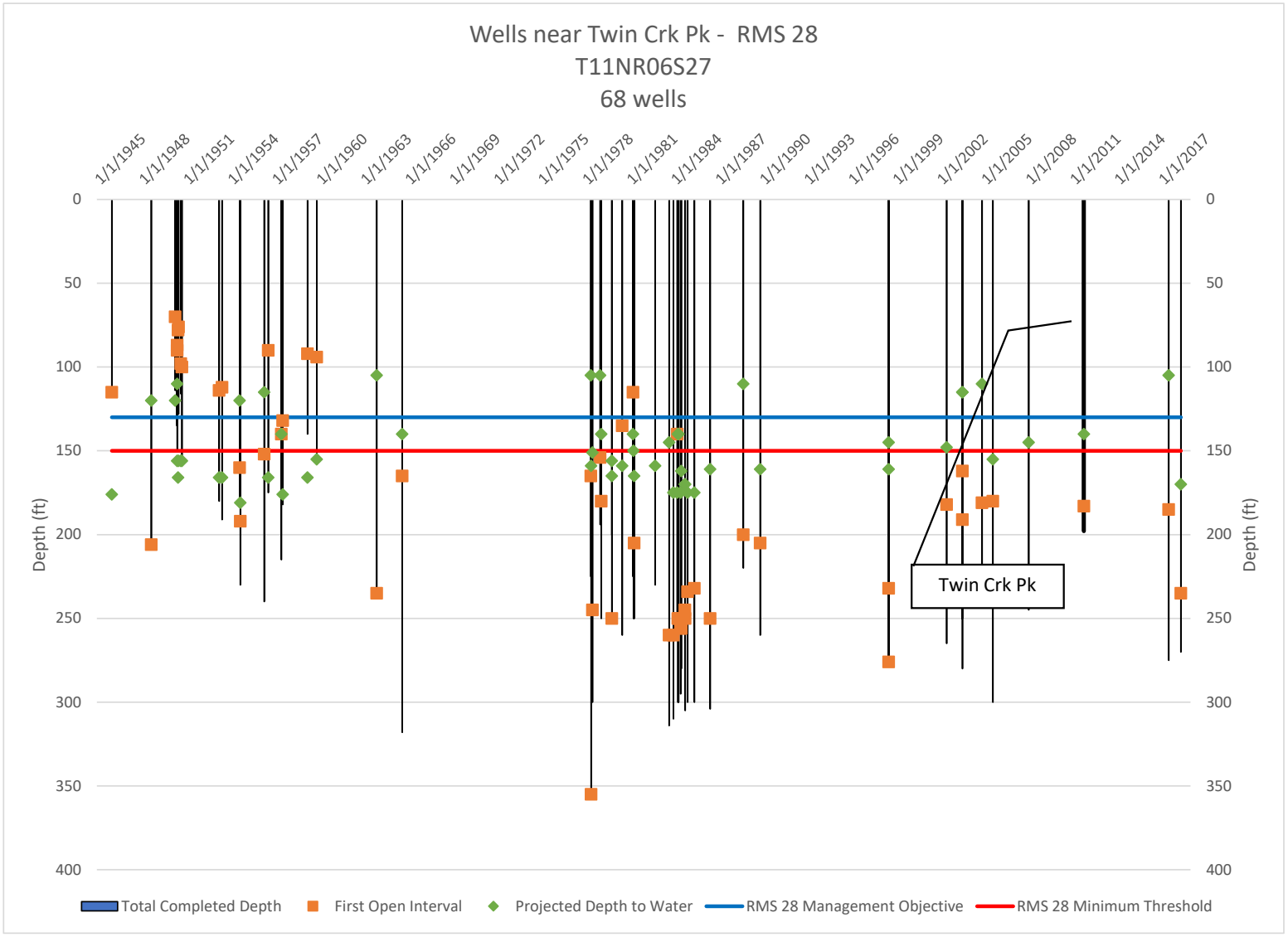


Figure B-13. Domestic Well Characteristics near RMS 28

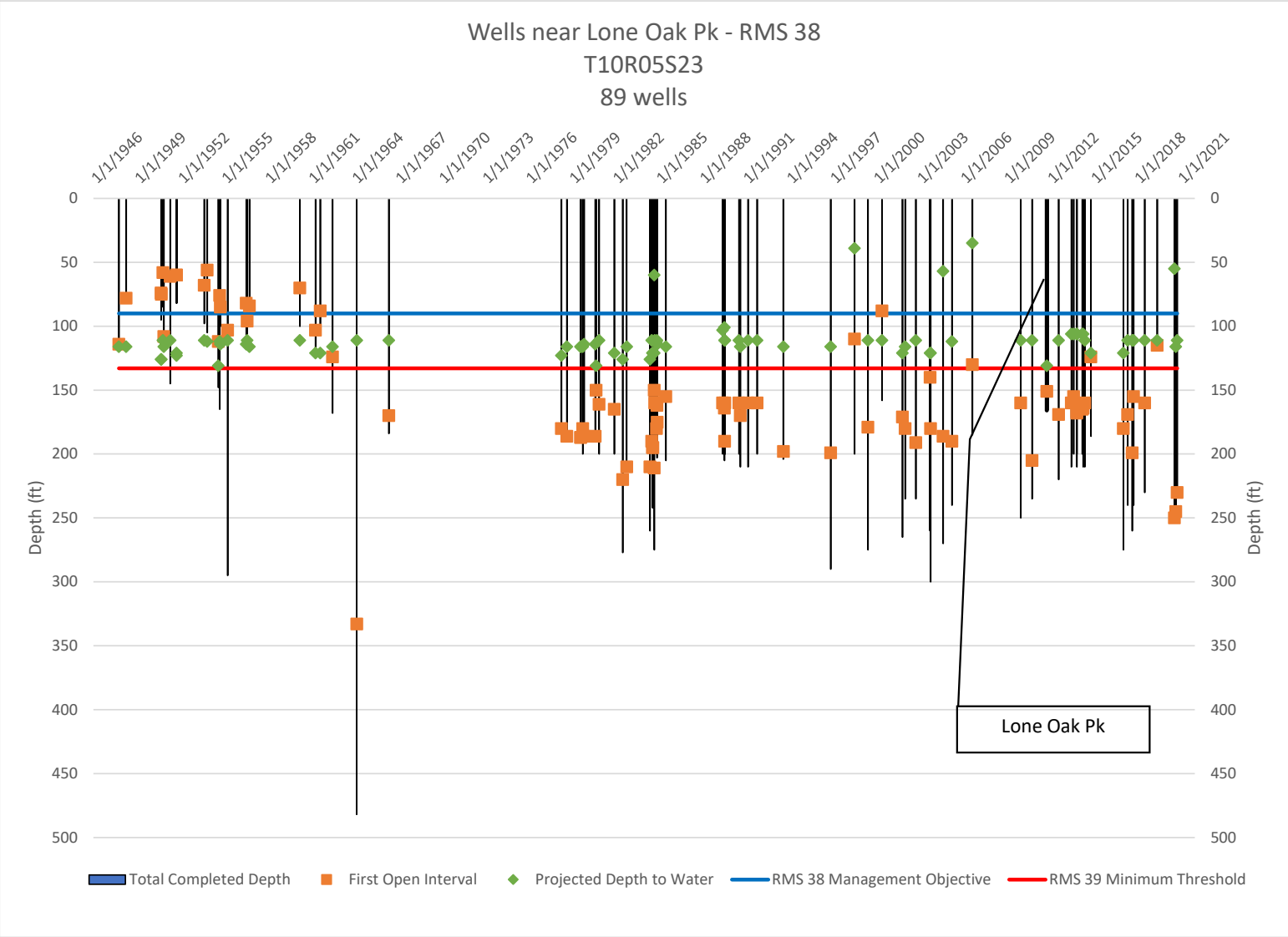


Figure B-14. Domestic Well Characteristics near RMS 38

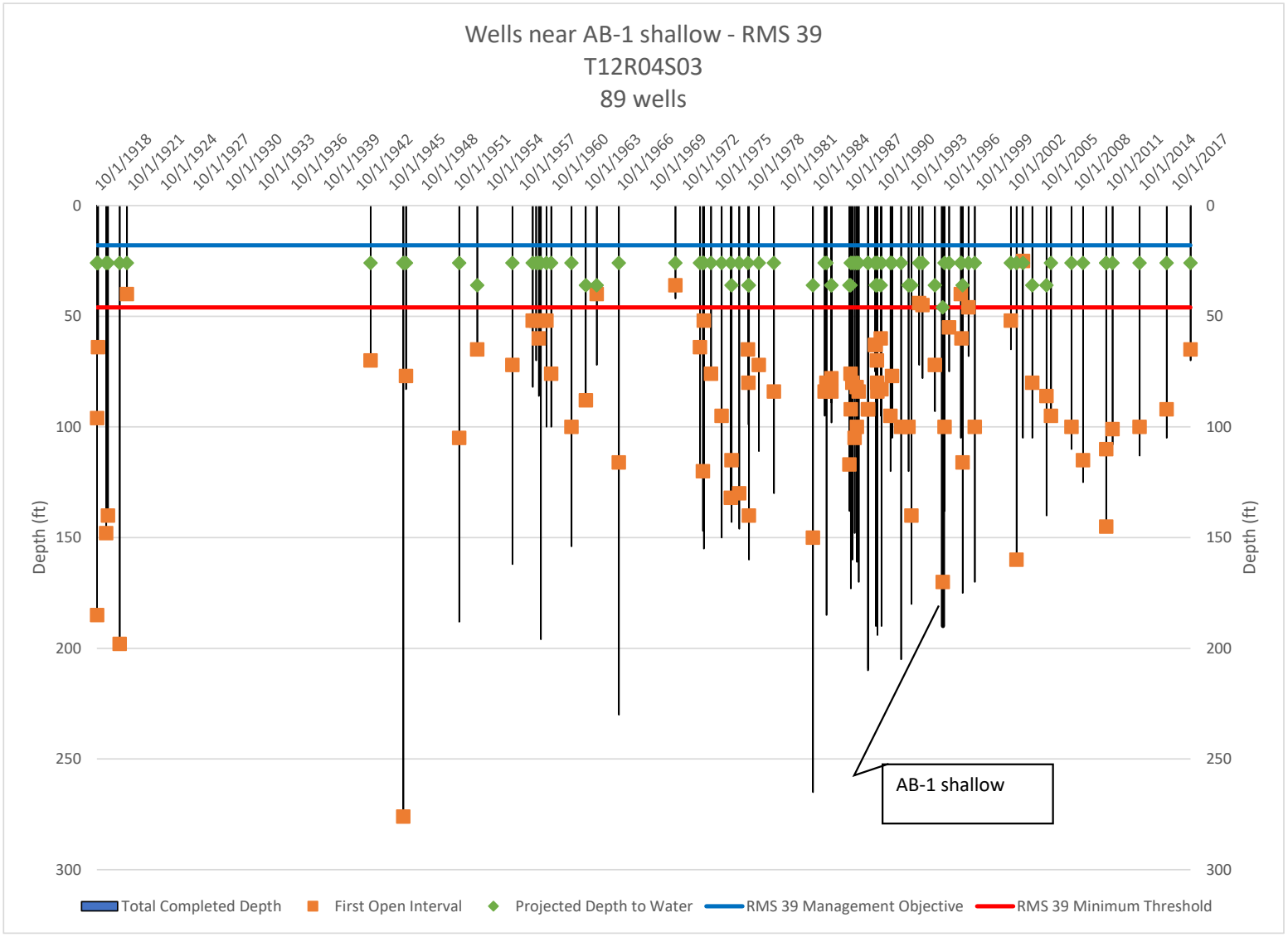


Figure B-15. Domestic Well Characteristics near RMS 39

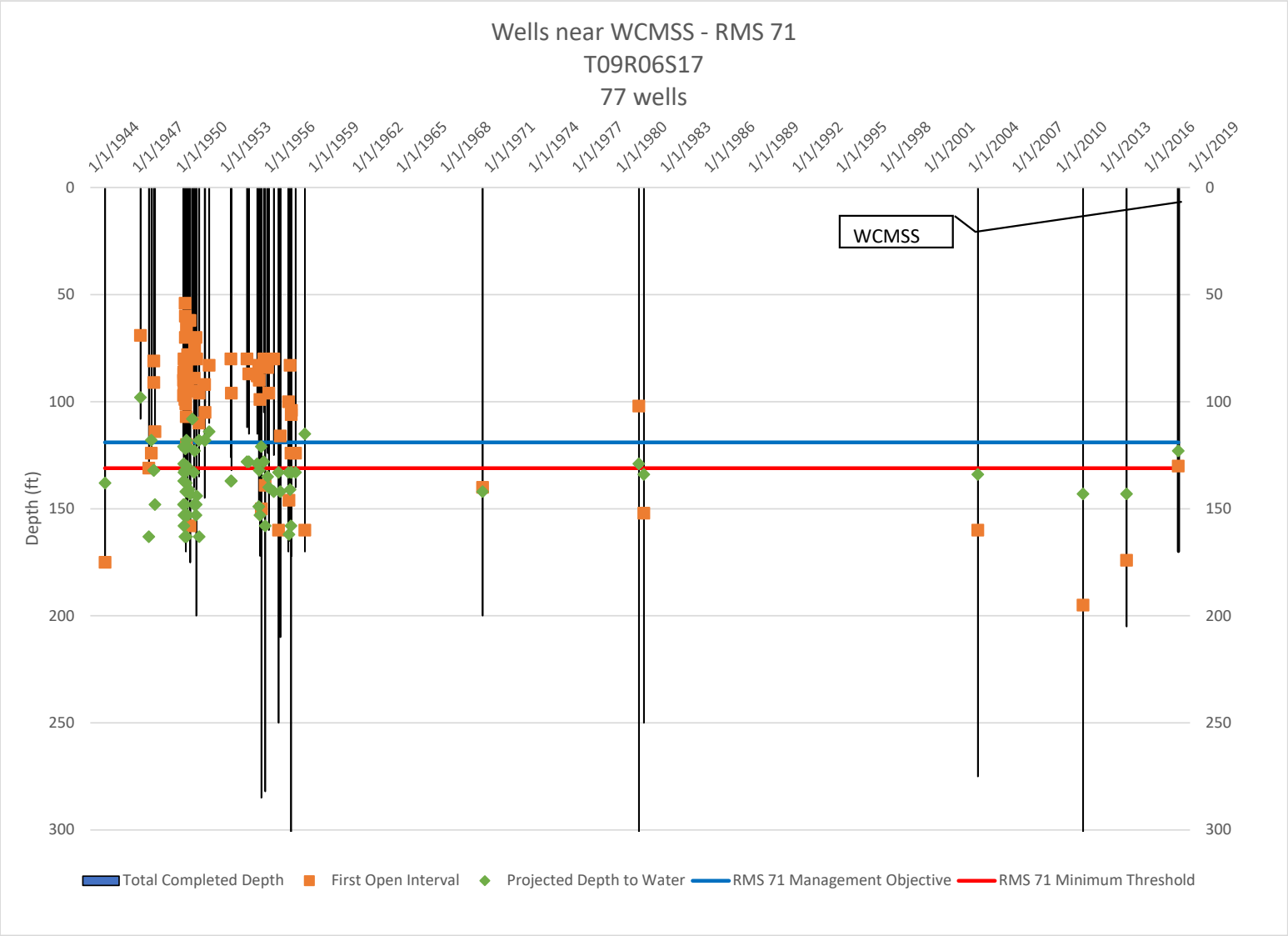


Figure B-16. Domestic Well Characteristics near RMS 71

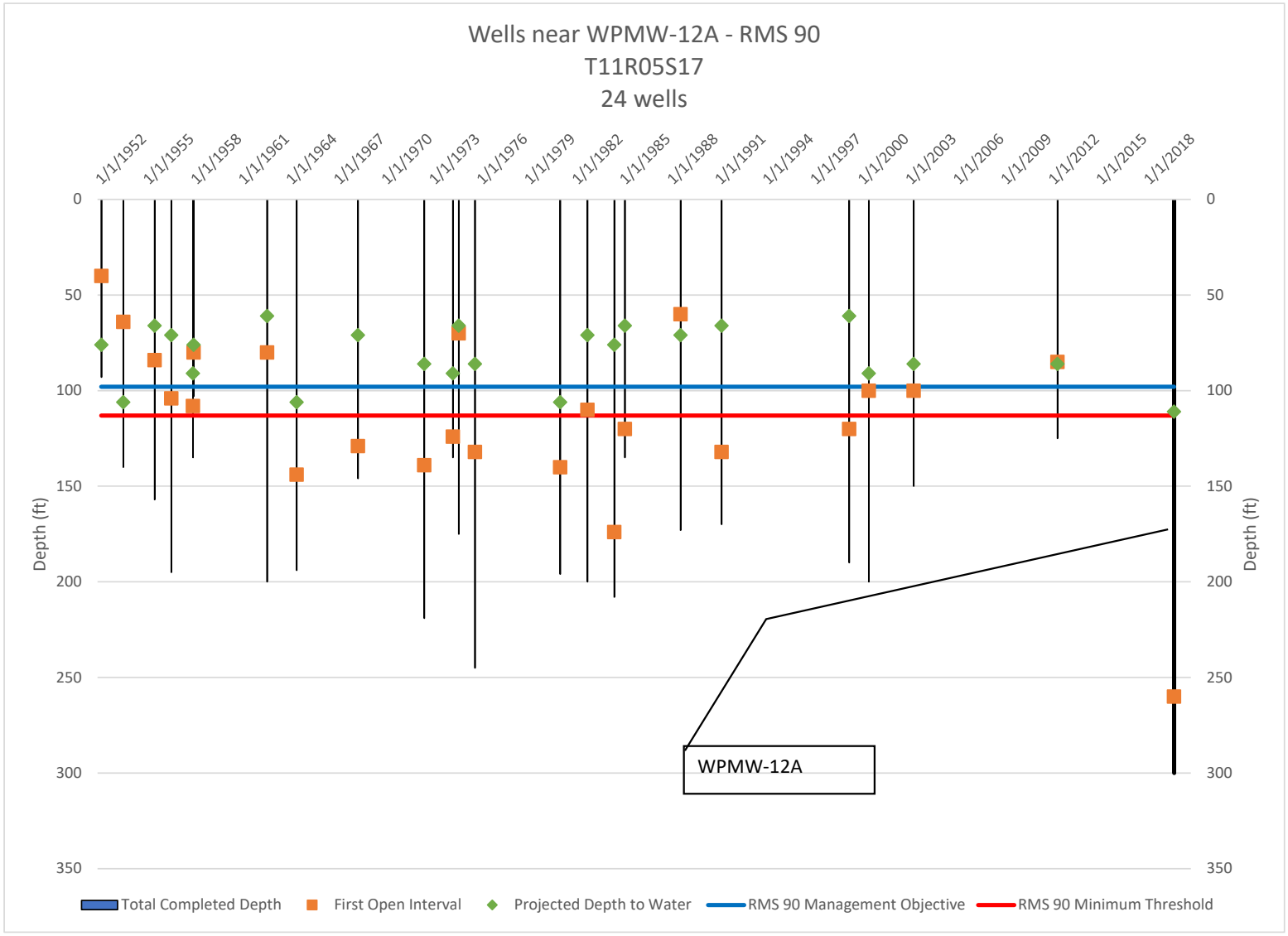


Figure B-17. Domestic Well Characteristics near RMS 90

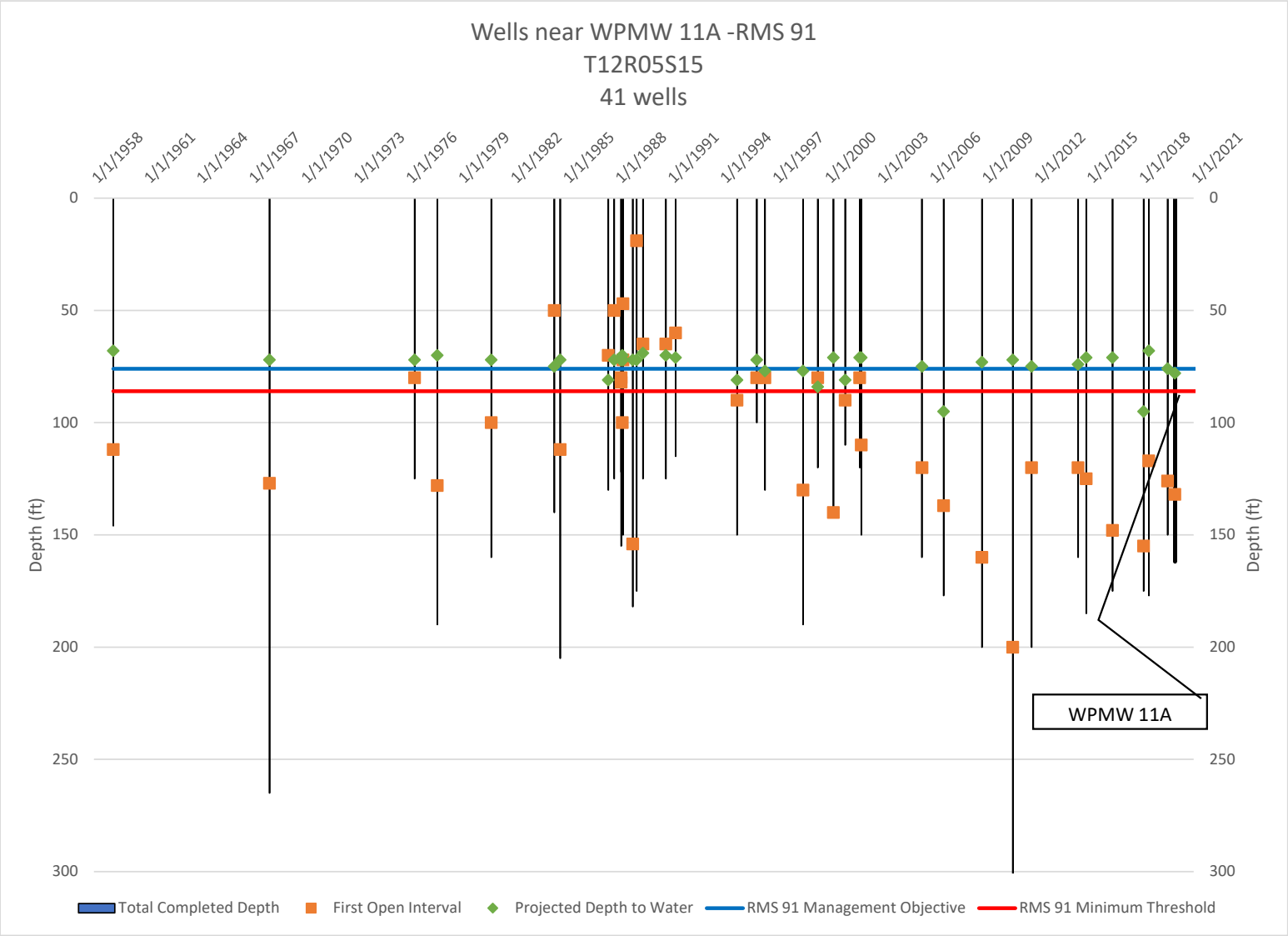


Figure B-18. Domestic Well Characteristics near RMS 91

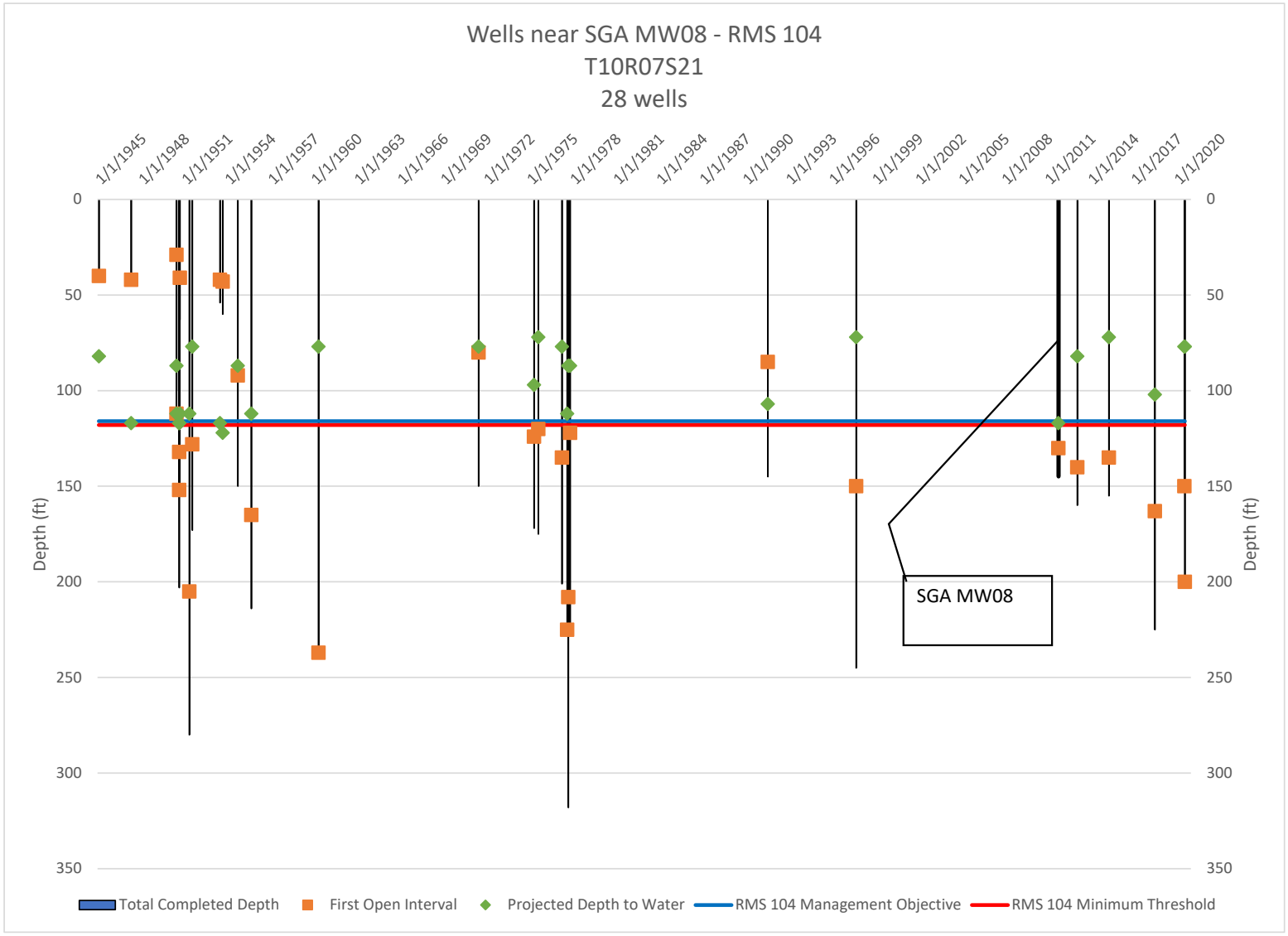


Figure B-19. Domestic Well Characteristics near RMS 104

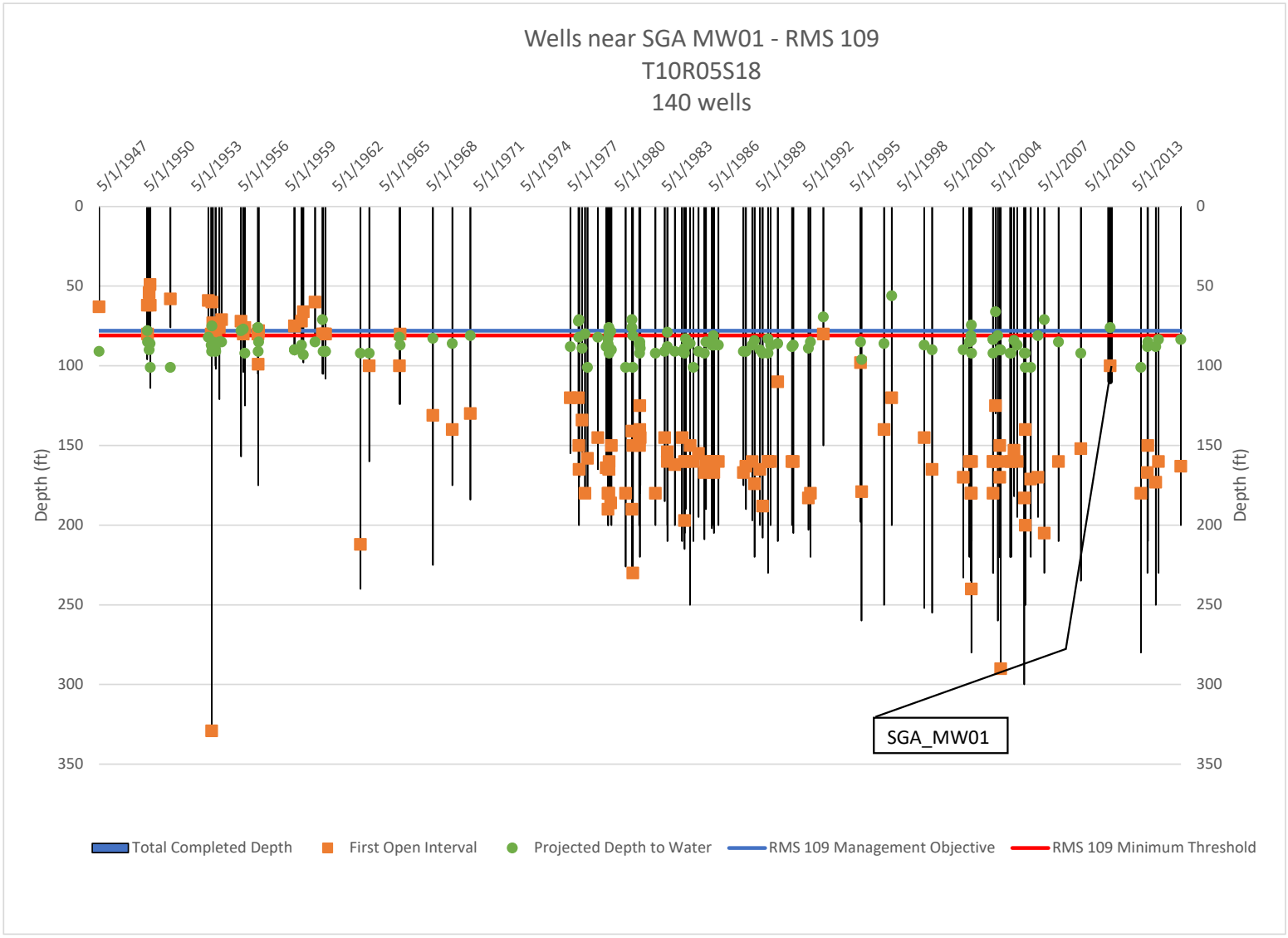


Figure B-20. Domestic Well Characteristics near RMS 109

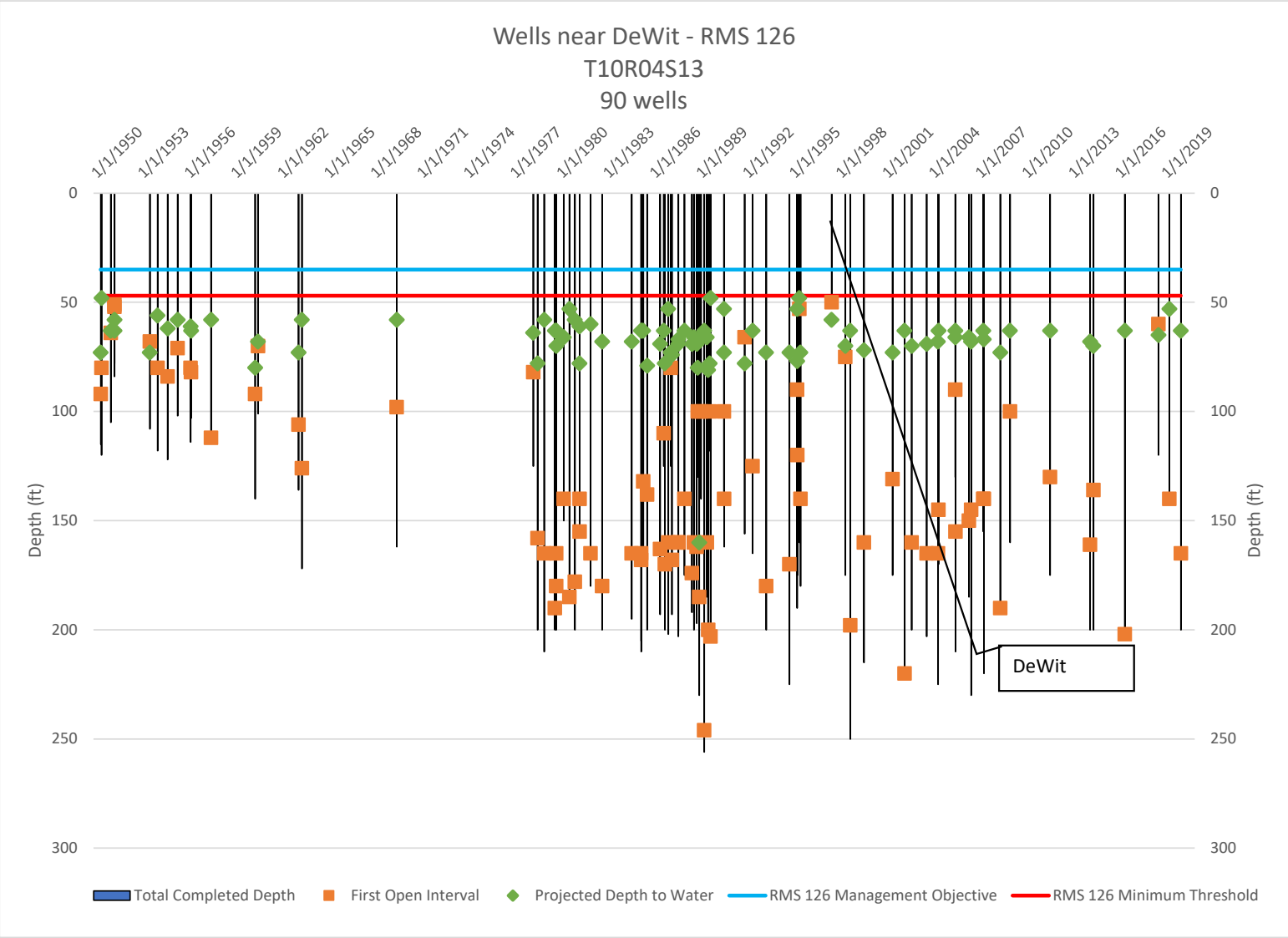


Figure B-21. Domestic Well Characteristics near RMS 126

Table B-3. Summary of Domestic Well Analysis with Respect to Total Depth

Well Information		Baseline Condition			Projected Condition			Net Difference (Baseline-Projected)	
Representative Monitoring Well	**Number of Domestic Wells Assessed**	**Number pre-1970 Wells Above Depth to Water**	**Number post-1970 Wells Above Depth to Water**	**Total Wells Above Depth to Water**	**Number pre-1970 Wells Above Depth to Water**	**Number post-1970 Wells Above Depth to Water**	**Total Wells Above Depth to Water**	**Pre-1970 Domestic Wells**	**Post-1970 Domestic Wells**
2	105	0	0	0	2	0	2	2	0
3	111	3	0	3	7	0	7	4	0
13	50	1	0	1	1	0	1	0	0
14	63	0	0	0	0	0	0	0	0
17	38	0	0	0	0	0	0	0	0
20	99	56	0	56	60	0	60	4	0
22	69	0	0	0	0	0	0	0	0
24	130	2	0	2	3	0	3	1	0
27	29	1	0	1	1	0	1	0	0
28	58	8	0	8	9	0	9	1	0
38	89	12	0	12	15	0	15	3	0
39	89	0	0	0	0	0	0	0	0
71	77	36	0	36	42	0	42	6	0
90	24	0	0	0	0	0	0	0	0
91	41	0	0	0	0	0	0	0	0
104	29	5	0	5	5	0	5	0	0
109	140	2	0	2	9	0	9	7	0
126	90	0	0	0	0	0	0	0	0
Total	**1331**	**126**	**0**	**126**	**154**	**0**	**154**	**28**	**0**

Table B-4. Summary of Domestic Well Analysis with Respect to First Open Interval

Well Information		Baseline Condition			Projected Condition			Net Difference (Baseline-Projected)	
Representative Monitoring Well	**Number of Domestic Wells Assessed**	**Number pre-1970 Wells Above Depth to Water**	**Number post-1970 Wells Above Depth to Water**	**Total Wells Above Depth to Water**	**Number pre-1970 Wells Above Depth to Water**	**Number post-1970 Wells Above Depth to Water**	**Total Wells Above Depth to Water**	**Pre-1970 Domestic Wells**	**Post-1970 Domestic Wells**
2	105	6	0	6	7	0	7	1	0
3	111	28	0	28	32	0	32	4	0
13	50	4	0	4	6	0	6	2	0
14	63	0	0	0	0	0	0	0	0
17	38	2	1	3	4	1	5	2	0
20	99	85	1	86	85	1	86	0	0
22	69	0	0	0	0	0	0	0	0
24	130	14	3	17	22	3	25	8	0
27	29	1	0	1	3	0	3	2	0
28	58	15	3	18	15	3	18	0	0
38	89	21	0	21	22	0	22	1	0
39	89	0	0	0	0	1	1	0	1
71	77	39	1	40	63	2	65	24	1
90	24	2	0	2	2	2	4	0	2
91	41	0	6	6	0	9	9	0	3
104	29	6	1	7	7	1	8	1	0
109	140	10	0	10	28	0	28	18	0
126	90	0	0	0	3	2	5	3	2
Total	**1331**	**233**	**16**	**249**	**299**	**25**	**324**	**66**	**9**

Appendix C: Monitoring Construction Details

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX C
Groundwater Level Monitoring Well Construction Details

December 2021

Appendix C
Groundwater Level Monitoring Well Construction Details

Map No.	CASGEM ID	Local Name	State Well Number	Latitude	Longitude	Reference Point Elevation (ft)	Monitoring Entity	Screened Interval (ft bgs)	Total Depth (ft bgs)	Period of Record	Well Type
1	387626N1213651W001	SVMW East-2A		38.762629	-121.3651	126.02	City of Roseville	125-135	140	2011-2020	O
1	381626N1213651W001	SVMW East-2B		38.762629	-121.3651	125.83	City of Roseville	510-520	525	2011-2020	O
1	387626N1213651W002	SVMW East-2C		38.76263	-121.3651	125.75	City of Roseville	655-665	670	2011-2020	O
2	385828N1213385W001	SGA_MW06		38.58281	-121.33846	49.49	DWR	62-72	72	2007-2019	O
3	385841N1214185W001	SGA_MW04		38.58414	-121.41852	38.69	DWR	55-65	65	2007-2019	O
4	385947N1213985W001	MW12A		38.59472	-121.39847	41.8	DWR	200-280	285	2010-2020	O
4	385947N1213985W002	MW12B		38.59472	-121.39847	41.84	DWR	360-380	385	2010-2020	O
4	385947N1213985W003	MW12C		38.59472	-121.39847	41.82	DWR	590-610	615	2010-2020	O
4	385947N1213985W004	MW12D		38.59472	-121.39847	41.82	DWR	810-840	845	2010-2020	O
4	385947N1213985W005	MW12E		38.59472	-121.39847	41.77	DWR	960-1000	1005	2010-2020	O
5	386016N1213761W001	DWR_SGA_004	09N05E25J001M	38.6016	-121.3761	66.7	DWR	Unknown	238	1977-2020	R
6	386038N1213882W001	MW11A		38.6038	-121.38815	59.45	DWR	167-177	187	2010-2017	O
6	386038N1213882W002	MW11B		38.6038	-121.38815	59.41	DWR	258-268	278	2010-2020	O
6	386038N1213882W003	MW11C		38.6038	-121.38815	59.25	DWR	332-365	375	2010-2020	O
7	386038N1214357W001	DWR_SGA_005	09N05E28K001M	38.6038	-121.4357	36.84	DWR	Unknown	250	1968-2020	I
8	386061N1215313W001	SCWA_SGA_003	09N04E27F001M	38.6061	-121.5313	27.04	SCWA	Unknown	320	1953-2029	I
9	386117N1213150W001	SCWA_SGA_004	09N06E27D001M	38.6117	-121.315	73.5	SCWA	Unknown	200	1962-2019	O
10	386151N1214467W001	DWR_SGA_003	09N05E21M001M	38.6151	-121.4467	37.14	DWR	Unknown	89	1948-2010	U
11	386160N1215054W001	Bannon Creek Park	09N04E23R002M	38.61603	-121.5054	13.76	SGA	33-48	48	2011-2012	O
12	386874N1212206W001	SGA_MW09		38.68739	-121.22058	231.27	DWR	150-160	160	2007-2019	O
13	386292N1214877W001	Chuckwagon Park	09N04E13R001M	38.62921	-121.4877	11.71	DWR	27-37	52	1998-2019	O
14	389669N1214897W001	13N04E23A002M	13N04E23A002M	38.9669	-121.4897	59.28	SSWD	Unknown	83	1963-2020	R
15	388208N1215397W001	11N04E09D002M	11N04E09D002M	38.8208	-121.5397	30.87	DWR	Unknown	100	1958-2020	R
16	386410N1213995W001	DWR_SGA_002	09N05E14B001M	38.641	-121.3995	68.53	DWR	Unknown	550	1980-2019	I
17	388593N1214885W003	AB-2 shallow	12N04E26J004M	38.8593	-121.4885	52.76	DWR	135-145	155	1996-2020	O
17	388593N1214885W001	AB-2 deep	12N04E26J002M	38.8593	-121.4885	52.3	DWR	670-690	700	1996-2020	O
17	388593N1214885W002	AB-2 middle	12N04E26J003M	38.8593	-121.4885	52.63	DWR	380-490	500	1996-2020	O
18	386489N1215679W001	SCWA_SGA_002	09N04E08L001M	38.6489	-121.5679	27.51	SCWA	Unknown	Unknown	1953-2010	I
19	386576N1214846W001	SCWA_SGA_001	09N04E01R001M	38.6576	-121.4846	22.72	SCWA	Unknown	17	1953-2019	R
20	386635N1213486W001	SGA_MW05		38.66347	-121.34859	121.87	DWR	205-215	215	2007-2019	O
21	387404N1214870W001		10N04E12A001M	38.7404	-121.487	45.54	DWR	Unknown	290	1947-2005	I
22	386782N1215943W004	AB-4 shallow	10N04E31M004M	38.6782	-121.5943	18.53	DWR	170-190	200	1997-2020	O
22	386782N1215943W001	AB-4 deep	10N04E31M001M	38.6782	-121.5943	19.28	DWR	1060-1070	1080	1997-2020	O
22	386782N1215943W002	AB-4 middle-deep	10N04E31M002M	38.6782	-121.5943	17.51	DWR	795-805	815	1997-2020	O
22	386782N1215943W003	AB-4 middle-shallow	10N04E31M003M	38.6782	-121.5943	17.98	DWR	380-400	410	1997-2020	O
23	388072N1214842W001		11N04E13D001M	38.8072	-121.4842	49.96	DWR	Unknown	535	1948-2008	I
24	386836N1214536W001	SGA_MW02		38.68362	-121.45363	52.39	DWR	100-110	110	2007-2019	O
25	386836N1214536W002	SGA_MW03		38.68356	-121.45362	51.82	DWR	285-305	305	2007-2019	O
26	386848N1216146W001	SCWA_SGA_005	10N03E35A001M	38.6848	-121.6146	23.09	SCWA	Unknown	96	1953-2019	R
27	386864N1215222W003	AB-3 shallow	10N04E27R004M	38.6864	-121.5222	28.31	DWR	190-210	220	1996-2019	O
27	386864N1215222W001	AB-3 deep	10N04E27R002M	38.6864	-121.5222	27.84	DWR	745-995	995	1996-2020	O
27	386864N1215222W002	AB-3 middle	10N04E27R003M	38.6864	-121.5222	28.09	DWR	470-500	500	1996-2020	O
28	386964N1213120W001	Twin Creeks Park	10N06E27F001M	38.6964	-121.31203	121.8	DWR	183-193	193	2011-2019	O
29	386979N1212329W001	SCWA_SGA_012	10N07E29G001M	38.6979	-121.2329	219.57	SCWA	150-240	240	1955-2019	I
30	386982N1213992W001	SCWA_SGA_008	10N05E14Q002M	38.6982	-121.3992	88.51	SCWA	116-227	227	1955-2019	R
31	386982N1213992W002	SCWA_SGA_009	10N05E26B002M	38.6982	-121.3992	83.81	SCWA	Unknown	150	1990-2019	R
32	388361N1215959W001	MLF Well #1	11N03E01D001M	38.83664	-121.59591	24.45	Sutter County	Unknown	Unknown	1949-2017	I
33	387000N1213529W001	Monument (A)		38.70005	-121.35288	173.39	Sac Suburban WD	226-274	274	2011-2020	O
33	387000N1213529W002	Monument (B)		38.70005	-121.35288	173.26	Sac Suburban WD	324-334	334	2011-2020	O
33	387000N1213529W003	Monument (C)		38.70005	-121.35288	173.26	Sac Suburban WD	380-450	450	2011-2020	O
33	387000N1213529W004	Monument (D)		38.70005	-121.35288	173.24	Sac Suburban WD	498-544	544	2011-2020	O
34	387092N1213300W001	SCWA_SGA_010	10N06E21F002M	38.7092	-121.33	161.51	SCWA	Unknown	144	1952-2019	R
35	387117N1213327W001	Poker (A)		38.71174	-121.33271	151.74	SGA	104-124	134	1994-2020	O
35	387117N1213327W002	Poker (B)		38.71174	-121.33271	151.77	SGA	156-166	176	1994-2020	O
35	387117N1213327W003	Poker (C)		38.71174	-121.33271	151.76	SGA	274-310	320	1994-2020	O
35	387117N1213327W004	Poker (D)		38.71174	-121.33271	151.75	SGA	370-460	470	1994-2020	O
36	387138N1215047W001	SCWA_SGA_006	10N04E23A001M	38.7138	-121.5047	17.97	SCWA	Unknown	85	1953-2019	I
37	388260N1215394W004	SUT-P1	11N04E04N004M	38.826	-121.5394	32.31	DWR	110-120	120	1994-2020	O
37	388260N1215394W001	SUT-P4	11N04E04N001M	38.826	-121.5394	31.81	DWR	880-890	890	1994-2020	O
37	388260N1215394W002	SUT-P3	11N04E04N002M	38.826	-121.5394	31.95	DWR	295-305	305	1994-2020	O
37	388260N1215394W003	SUT-P2	11N04E04N003M	38.826	-121.5394	32.13	DWR	185-195	195	1994-2020	O
38	387216N1213842W001	Lone Oak Park	10N05E13F001M	38.72163	-121.38417	105.77	DWR	151-161	166	2011-2019	O
39	389116N1215238W003	AB-1 shallow	12N04E03N004M	38.9116	-121.5238	50.58	DWR	170-180	190	1996-2020	O
39	389116N1215238W001	AB-1 deep	12N04E03N001M	38.9116	-121.5238	49.83	DWR	950-970	980	1996-2020	O
39	389116N1215238W002	AB-1 middle-deep	12N04E03N002M	38.9116	-121.5238	50.23	DWR	680-700	710	1996-2020	O
39	389117N1215238W001	AB-1 middle-shallow	12N04E03N003M	38.9116	-121.5238	50.37	DWR	390-520	530	1996-2020	O
40	387228N1213298W001	Antelope North (A)		38.722803	-121.32976	133.68	Sac Suburban WD	253-273	283	2011-2020	O
40	387228N1213298W002	Antelope North (B)		38.722803	-121.32976	133.71	Sac Suburban WD	328-468	473	2011-2020	O
41	387331N1213610W001	WPMW-5A		38.733106	-121.36099	100.42	City of Roseville	80-100	100	2015-2020	O
41	387331N1213610W002	WPMW-5B		38.733106	-121.36099	100.35	City of Roseville	630-650	650	2015-2020	O
42	387510N1212390W001	WPMW-8A		38.750989	-121.23895	234.17	City of Roseville	30-50	50	2015-2019	O
42	387510N1212390W002	WPMW-8B		38.750989	-121.23895	234.09	City of Roseville	95-115	115	2015-2020	O
43	387512N1212390W001	WPMW-7A		38.751194	-121.239	225.97	City of Roseville	35-45	45	2015-2019	O
44	387515N1212725W001	WPMW-10A		38.751494	-121.27251	153.21	City of Roseville	26-36	36	2015-2019	O
44	387515N1212725W002	WPMW-10B		38.751494	-121.27251	153.18	City of Roseville	80-100	100	2015-2020	O
44	387515N1212725W003	WPMW-10C		38.751494	-121.27251	153.12	City of Roseville	240-260	260	2015-2020	O
45	387517N1212727W001	WPMW-9A		38.751667	-121.27266	154.66	City of Roseville	26-36	36	2015-2020	O
46	387623N1213915W001	SVMW West - 1A		38.762324	-121.39153	94.25	City of Roseville	120-140	145	2015-2020	O
46	387623N1213915W002	SVMW West - 1B		38.762325	-121.39153	94.17	City of Roseville	535-555	560	2011-2020	O
46	387623N1213915W003	SVMW West - 1C		38.762325	-121.39153	94.05	City of Roseville	725-745	750	2011-2020	O
47	387739N1212382W001	WPMW-6A		38.7739	-121.238183	207.61	City of Roseville	35-65	65	2015-2020	O
48	387755N1212753W001	WPMW-4A		38.775536	-121.27525	181.67	City of Roseville	120-140	145	2011-2020	O
48	387755N1212753W002	WPMW-4B		38.775535	-121.275255	181.52	City of Roseville	275-295	300	2011-2020	O
49	387786N1213737W001	WPMW-1A		38.778603	-121.3737	107.83	City of Roseville	110-120	120	2011-2020	O
49	387786N1213737W002	WPMW-1B		38.778603	-121.3737	107.31	City of Roseville	460-480	480	2011-2020	O

Appendix C
Groundwater Level Monitoring Well Construction Details

49	387786N1213737W003	WPMW-1C		38.778602	-121.3737	106.75	City of Roseville	535-545	545	2011-2020	O
50	387816N1213870W001	W-77MW-A		38.781581	-121.38702	97.2	City of Roseville	486-506	516	2012-2020	O
50	387816N1213870W002	W-77MW-B		38.781581	-121.38702	97.2	City of Roseville	584-594	604	2012-2020	O
51	387943N1213856W001	O'Brien well	11N05E23B001M	38.7943	-121.3856	90.86	City of Roseville	Unknown	195	1972-2020	R
52	387957N1213813W001	CVMW-1A		38.795655	-121.38126	87.11	City of Roseville	260-280	285	2011-2020	O
52	387957N1213813W002	CVMW-1B		38.795654	-121.38126	86.95	City of Roseville	460-490	495	2011-2020	O
52	387957N1213813W003	CVMW-1C		38.795655	-121.38126	86.84	City of Roseville	565-585	590	2011-2020	O
53	387971N1215119W001		11N04E15Q001M	38.7971	-121.5119	35.98	DWR	Unknown	Unknown	1963-2020	U
54	387977N1214521W001		11N05E18R001M	38.7977	-121.4521	64.37	DWR	Unknown	Unknown	1963-2020	I
55	387982N1214704W001		11N04E13R001M	38.7982	-121.4704	53.37	DWR	Unknown	Unknown	1963-2020	I
56	388027N1213384W001	DCMW-3		38.80271	-121.33843	99.82	City of Roseville	400-515	520	2012-2020	O
57	388058N1213355W001	DCMW-1		38.805757	-121.3355	119.94	City of Roseville	320-450	455	2014-2020	O
58	388063N1213354W001	DCMW-2		38.806291	-121.33542	120.22	City of Roseville	322-432	437	2012-2020	O
59	388116N1213054W001	Tinker MW		38.811594	-121.30539	132.2	City of Roseville	117-177	177	2013-2020	O
60	388145N1213491W001	WPMW-2A		38.814497	-121.34914	108.2	City of Roseville	215-225	230	2011-2020	O
60	388145N1213491W002	WPMW-2B		38.814497	-121.34914	108.09	City of Roseville	400-420	425	2011-2020	O
61	388235N1216079W001	Sutter County MW-5A	11N03E02Q002M	38.823235	-121.60763	26.45	Sutter County	130-160	170	2012-2020	O
61	388235N1216079W002	Sutter County MW-5B	11N03E02Q003M	38.823235	-121.60763	26.28	Sutter County	655-675	675	2012-2020	O
61	388235N1216079W003	Sutter County MW-5C	11N03E02Q004M	38.823235	-121.60763	26.22	Sutter County	910-920	930	2012-2020	O
61	388235N1216079W004	Sutter County MW-5D	11N03E02Q005M	38.8235	-121.6079	26.12	Sutter County	1205-1215	1225	2012-2020	O
62	388458N1215100W001		12N04E34H001M	38.8458	-121.51	42.83	DWR	Unknown	Unknown	2011-2020	R
63	388476N1212872W001	WPMW-3A		38.847609	-121.28719	150.95	City of Roseville	48-53	53	2012-2019	O
63	388476N1212872W002	WPMW-3B		38.847609	-121.287187	150.34	City of Roseville	130-140	140	2012-2019	O
64	388555N1215468W001		12N04E29J001M	38.8555	-121.5468	34.84	DWR	Unknown	285	2005-2020	I
65	388604N1213544W003	MW 1-3		38.860383	-121.35438	113.81	City of Lincoln	184-204	204	2012-2020	O
65	388604N1213544W001	MW 1-1		38.860383	-121.35438	113.6	City of Lincoln	378-398	398	2012-2019	O
65	388604N1213544W002	MW 1-2		38.860383	-121.35438	113.76	City of Lincoln	298-318	318	2012-2020	O
65	388604N1213544W004	MW 1-4		38.860383	-121.35438	113.61	City of Lincoln	82-92	92	2012-2020	O
66	388826N1213078W001	MW 5-1		38.882583	-121.30775	148.7	City of Lincoln	80-100	100	2012-2019	O
66	388826N1213078W002	MW 5-2		38.882583	-121.30775	148.65	City of Lincoln	52-62	62	2012-2020	O
69	388944N1215257W001		12N04E16A004M	38.8944	-121.5257	42.82	DWR	Unknown	Unknown	1963-2020	I
70	388971N1213301W001	MW 3-1		38.897133	-121.33008	130.5	City of Lincoln	118-133	133	2012-2020	O
70	388971N1213301W002	MW 3-2		38.897133	-121.33008	130.5	City of Lincoln	65-75	75	2012-2019	O
71	386280N1213493W001	WCMSS		38.62799	-121.34925	90.74	SGA	130-150	170	2017-2019	O
71	386280N1213493W002	WCMSM		38.62799	-121.34925	90.53	SGA	230-270	290	2017-2019	O
71	386280N1213493W003	WCMSD		38.62799	-121.34925	90.23	SGA	490-510	530	2017-2019	O
72	389075N1215237W001		12N04E10D002M	38.9075	-121.5237	51.32	DWR	Unknown	Unknown	2011-2020	U
73	389130N1215441W001		12N04E05R004M	38.913	-121.5441	44.32	DWR	Unknown	90	1963-2019	R
74	388029N1214145W001		11N05E16H001M	38.8029	-121.4145	90.36	DWR	135-460	460	2011-2020	I
75	389255N1213566W003	MW 2-3		38.925467	-121.35663	127.67	City of Lincoln	75-85	85	2012-2020	O
75	389255N1213566W002	MW 2-2		38.925467	-121.35663	127.67	City of Lincoln	160-170	170	2012-2019	O
75	389255N1213566W001	MW 2-1		38.925467	-121.356633		City of Lincoln	290-310	310	2012-2019	O
76	389255N1214969W001		13N04E35Q002M	38.9255	-121.4969	57.9	DWR	Unknown	Unknown	1988-2020	U
77		SREL-1-27-F1		38.774911	-121.597535		SGA	Unknown	46.32		O
78	389328N1215489W001		13N04E32G001M	38.9328	-121.5489	48.32	DWR	Unknown	Unknown	1963-2020	I
79	389410N1215254W001		13N04E28R001M	38.941	-121.5254	51.31	DWR	Unknown	Unknown	1949-2013	I
80	389740N1213606W001	Cemetery		38.974027	-121.36062	135.28	DWR	70-111	111	2015-2019	I
81	387432N1215588W001	MW 1		38.74317	-121.55875	109.71	Placer County	30-40	40	2015-2016, 20	I
81	389764N1213710W001	MW-2		38.976427	-121.371	113.69	Placer County	24.3-44.3	45	2016-2020	O
81	389774N1213728W001	MW-3		38.977408	-121.37284	103.41	Placer County	19.5-34.5	35	2016-2020	O
82	387222N1212920W001	Whyte A		38.722168	-121.29196	167.31	SGA	200-220	226	2016-2019	O
82	387222N1212920W002	Whyte B		38.722168	-121.29196	167.35	SGA	280-300	306	2016-2019	O
83	387874N1215764W001	Spangler		38.7874	-121.5764	27	DWR	150-170	252	2014-2016, 20	I
84	389867N1213654W002	Spencer (SVWQC00008)		38.986724	-121.36542		Placer County	96-107	107	2016-2020	R
85	389873N1214156W001	13N05E09R001M	13N05E09R001M	38.9873	-121.4156	86	DWR	Unknown	150	1949-2020	I
86	389128N1214522W001		12N05E06R001M	38.9128	-121.4522	71.3	DWR	Unknown	Unknown		I
87	388710N1214870W001		12N04E24M002M	38.871	-121.487	54.32	DWR	Unknown	340	1952-2017	I
88	388357N1216273W001		11N03E03C002M	38.8357	-121.6273	28.79	DWR	Unknown	97	1948-2007	I
89		Roseview Park - 315		38.719118	-121.328786	156.84	SGA	295-305	315	2014-2019	O
89		Roseview Park - 370		38.719118	-121.328786		SGA	350-360	370	2014-2019	O
89		Roseview Park - 465		38.719118	-121.328786	156.76	SGA	445-455	465	2014-2019	O
90	388026N1214432W002	WPMW-12A		38.802639	-121.443216	69.62	City of Roseville	260-280	300	2019-2020	O
90	388026N1214432W004	WPMW-12B		38.802639	-121.443216	69.57	City of Roseville	508-528	550	2019-2020	O
91	388882N1214005W002	WPMW-11A		38.888164	-121.400463	92.07	Placer County	132-152	162	2019-2020	O
91	388882N1214005W004	WPMW-11B		38.888164	-121.400463	91.7	Placer County	264-304	309	2019-2020	O
92		RDMW-101		38.882937	-121.611051		Sutter County	28-43	48		O
93		RDMW-102		38.879869	-121.588533		Sutter County	28-43	48		O
94	389950N1214148W002	RDMW-103		38.99461	-121.414794		Placer County	28-43	48	2019-2020	O
95	389919N1214141W002	RDMW-104		38.99195	-121.413502		Placer County	28-43	48	2019-2020	O
96		1516		38.634871	-121.231917	88.38	Aerojet	13-33	40	2018-2019	O
97		1518		38.635131	-121.232312	130.71	Aerojet	55-75	80	2018-2019	O
98		URS71000-700+00C		38.639704	-121.562435	41.7	SGA	Unknown	45.24		O
99		URS71000-700+00F		38.639539	-121.561543	24.2	SGA	Unknown	45.14		O
100		13N04E13R001M	13N04E13R001M	38.97	-121.4697	71.57	DWR	Unknown	Unknown		I
101		13N04E16N001M	13N04E16N001M	38.9692	-121.5408		DWR	Unknown	500	1948-2020	I
102	389704N1214340W001	13N05E17R001M	13N05E17R001M	38.9704	-121.434		DWR	Unknown	480	1948-2020	I
103	389857N1214880W001	BR-1B	13N04E11R002M	38.9857	-121.488		DWR	78-98	98	2003-2020	O
103	389857N1214880W004	BR-1A	13N04E11R005M	38.9857	-121.488		DWR	28-48	48	2003-2020	O
103	389857N1214880W002	BR-1C	13N04E11R003M	38.9857	-121.488		DWR	215-245	245	2003-2020	O
103	389857N1214880W003	BR-1D	13N04E11R004M	38.9857	-121.488		DWR	320-331	331	2003-2020	O
104	387000N1212180W001	SGA_MW08		38.69998	-121.21795	218.06	DWR	130-140	140	2007-2019	O
105	388893N1212847W001	MW 4		38.889283	-121.28468	183.87	City of Lincoln	15-25	25	2012-2019	O
106	386814N1213809W001	MW-15	09N06E06A001M	38.68144	-121.38093		Sac Suburban WD	205-481	486	2011-2019	O
107	386697N1213106W001	MW-N28	09N06E03C001M	38.669665	-121.310578		Sac Suburban WD	170-452	454	2011-2019	O
108	389185N1213268W001	Swainson		38.918461	-121.32684	140.65	Placer County	44.1-91.9	92	2015-2019	I
109	387218N1214677W001	SGA_MW01		38.72178	-121.46771	47.59	DWR	100-110	110	2007-2019	O
110		Dpool A		38.7403376	-121.2946181		SGA	190-210	245		O
111		Dpool B		38.7403376	-121.2946181		SGA	310-330	336		O
112	389327N1214594W001		13N05E31K001M	38.9327	-121.4594	70.29	DWR	Unknown	393	1963-2020	U
113	389539N1215186W001		13N04E27C003M	38.9539	-121.5186	54.47	DWR	Unknown	Unknown	2008-2020	I
114	388473N1214905W001	12N04E35H001M	12N04E35H001M	38.8473	-121.4905	50.73	DWR	Unknown	Unknown	2012-2020	U

Appendix C
Groundwater Level Monitoring Well Construction Details

115	389674N1214063W001		13N05E22C003M	38.9674	-121.4063		DWR	Unknown	400	1961-2020	I
116	389791N1213727W001	Old Well #2	13N05E13D003M	38.979133	-121.37269	107	Placer County	144-209	209	2016-2020	O
117	388755N1213144W001	SLC-1	Not Available	38.875475	-121.3144	145	City of Lincoln	142-249	249	2012-2020	O
118	388637N1213222W001	SLC-2	Not Available	38.863733	-121.32218	126.47	City of Lincoln	144-293	293	2012-2020	O
119	388677N1213397W001	SLC-3	Not Available	38.867683	-121.33973	117.98	City of Lincoln	132-311	311	2012-2020	O
120	387141N1212431W001	SCWA_SGA_011	10N07E20D001M	38.714688	-121.2431	207.57	SCWA	Unknown	185	2011-2019	R
121	387139N1215459W001	10N04E21B002M	10N04E21B002M	38.7139	-121.5459	18.97	DWR	Unknown	Unknown	1990-2019	I
122	387137N1214906W001	SCWA_SGA_007	10N04E24B001M	38.7137	-121.4906	30.17	DWR	Unknown	Unknown	1990-2019	I
123	386904N1214757W001	10N05E30L001M	10N05E30L001M	38.6904	-121.4757	38.99	DWR	Unknown	Unknown	1990-2012	R
124	388531N1214244W001		12N05E33C001M	38.8531	-121.4244	69.33	DWR	Unknown	610	1961-2020	I
125	389292N1214056W001	35633	13N05E34P001M	38.9292	-121.4056	89.3	DWR	Unknown	Unknown	1961-2020	I

Appendix D: Geologic Section Well Logs

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX D
Geologic Section Well Logs

December 2021

Geologic Section A-A’

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

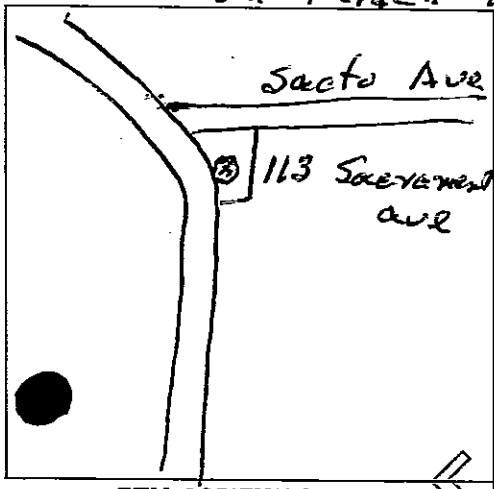
Do not fill in
No. 244954

[redacted] Intent No.
Local Permit No. or Date

State Well No.
Other Well No. 12N03E02F

(2) LOCATION OF WELL (See instructions):

County Sutter Owner's Well Number
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc.
18 mi South of Yuba City
On Garden Hyw



WELL LOCATION SKETCH

(3) TYPE OF WORK:

New Well [X] Deepening [ ]
Reconstruction [ ]
Reconditioning [ ]
Horizontal Well [ ]
Destruction [ ] (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

Domestic [X]
Irrigation [ ]
Industrial [ ]
Test Well [ ]
Stock [ ]
Municipal [ ]
Other [ ]

(5) EQUIPMENT:

Rotary [ ] Reverse [ ]
Cable [X] Air [ ]
Other [ ] Bucket [ ]

(6) GRAVEL PACK:

Yes [ ] No [X] Size
Diameter of bore
Packed from ft. to ft.

(7) CASING INSTALLED:

Steel [ ] Plastic [ ] Concrete [ ]

From ft.	To ft.	Dia. in.	Gage or Wall
0	44	8"	10

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:

Was surface sanitary seal provided? Yes [X] No [ ] If yes, to depth 38' ft.
Were strata sealed against pollution? Yes [X] No [ ] Interval 0-44 ft.
Method of sealing Caesing Landed in Clay

(10) WATER LEVELS:

Depth of first water, if known ft.
Standing level after well completion ft.

(11) WELL TESTS:

Was well test made? Yes [ ] No [ ] If yes, by whom?
Type of test Pump [ ] Bailer [ ] Air lift [ ]
Depth to water at start of test ft. At end of test ft
D[redacted]ge gal/min after hours Water temperature
C[redacted]al analysis made? Yes [ ] No [ ] If yes, by whom?
Was electric log made? Yes [ ] No [ ] If yes, attach copy to this report

(12) WELL LOG:

Total depth ft. Depth of completed well ft.

from ft. to ft. Formation (Describe by color, character, size or material)

0 - 4 - Soil
4 - 12 - Hard Pan
12 - 42 - Soft Sandy Clay
42 - 60 - Bl Clay
60 - 72 - Sandy Bl Clay
72 - 80 - Bl Clay Sand & gravel in Bottom

Work started 3/8 19 85 Completed 3/12 19 85

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief

SIGNED "Ed" Herr Inc (Well Driller)
NAME Henry E. Herr (Person, firm, or corporation) (Typed or printed)
Address 2410 Tuscan Rd
City Yuba City Zip 95991
License No. 431172 Date of this report 3/13/85

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

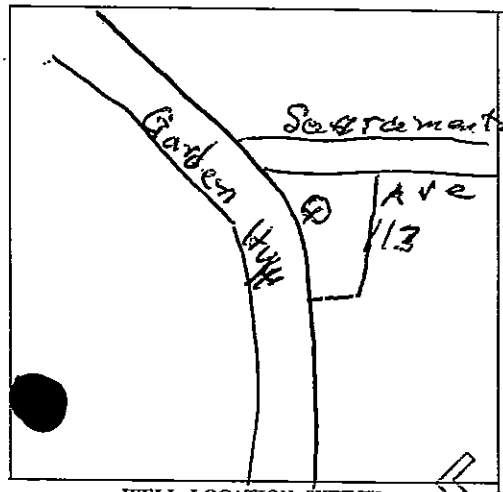
Do not fill in
No. 244968

[redacted] of Intent No.
Local Permit No. or Date

State Well No.
Other Well No. 12N03E02

(1) OWNER:
Address
City

(2) LOCATION OF WELL (See instructions):
County Sutter Owner's Well Number
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc.
18 mi. south of Yuba City on Garden Hiway



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well [X] Deepening [ ]
Reconstruction [ ]
Reconditioning [ ]
Horizontal Well [ ]
Destruction [ ] (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic [X]
Irrigation [ ]
Industrial [ ]
Test Well [ ]
Stock [ ]
Municipal [ ]
Other [ ]

(5) EQUIPMENT:
Rotary [ ] Reverse [ ]
Cable [X] Air [ ]
Other [ ] Bucket [ ]

(6) GRAVEL PACK:
Yes [ ] No [X] Size
Diameter of bore
Packed from to ft.

(7) CASING INSTALLED:
Steel [ ] Plastic [ ] Concrete [ ]

From ft.	To ft.	Dia. in.	Gage or Wall
0	54	8"	10

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:
Was surface sanitary seal provided? Yes [X] No [ ] If yes, to depth 50 ft.
Were strata sealed against pollution? Yes [X] No [ ] Interval 0'-54 ft.
Method of sealing Casing landed in clay

(10) WATER LEVELS:
Depth of first water, if known ft.
Standing level after well completion ft.

(11) WELL TESTS:
Was well test made? Yes [ ] No [ ] If yes, by whom?
Type of test Pump [ ] Bailer [ ] Air lift [ ]
Depth to water at start of test ft. At end of test ft
[redacted] charge gal/min after hours Water temperature
[redacted]cal analysis made? Yes [ ] No [ ] If yes, by whom?
Was electric log made? Yes [ ] No [ ] If yes, attach copy to this report

(12) WELL LOG: Total depth ft. Depth of completed well ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	4	Soil
4	12	Hardpan
12	42	Soft, sandy clay
42	60	Blue clay
60	72	Sandy, blue clay
72	80	Blue cemented sand, gravel in bottom

Work started 3/8 19 85 Completed 3/12 19 85

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
SIGNED Henry T. Herr (Well Driller)
NAME Henry T. Herr, Well-Drilling, Inc (Person, firm, or corporation) (Typed or printed)
Address 2410 Tuscan Rd.
City Yuba City Zip 95991
License No. 431172 Date of this report 5/15/85

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

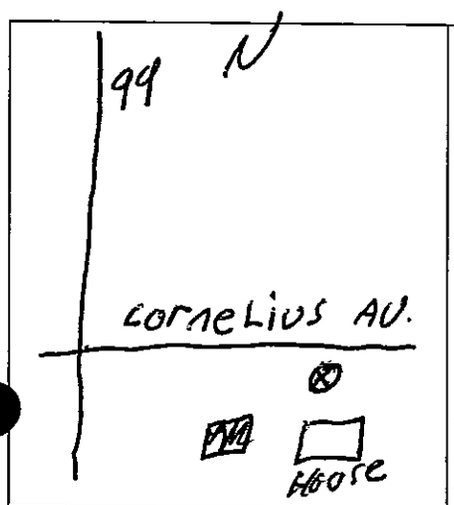
WATER WELL DRILLERS REPORT

Do not fill in
No. 340815

Notice of Intent No. _____
Local Permit No. or Date _____

State Well No. _____
Other Well No. 12N04E04B3

(2) LOCATION OF WELL (See instructions):
County Sutter Owner's Well Number _____
Well address if different from above _____
Township 13 Range 4E Section 4
Distance from cities, roads, railroads, fences, etc. _____



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☒

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☑ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☑ Size
Diameter of bore _____
Packed from _____ to _____ ft.

(7) CASING INSTALLED:
Steel ☑ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	84	6	10

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 20 ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 20 ft.
Method of sealing _____

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion 30 ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☐ No ☐ If yes, by whom? _____
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 194 ft. Completed depth 194 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	1	Top
1	17	Brown clay
17	19	Shell
19	34	Brown clay
34	36	Shell
36	41	Brown clay
41	45	Soft Brown clay
45	48	Sand
48	54	Brown clay
54	58	Sandy Brown clay
58	71	Brown clay
71	79	Sand
79	84	Brown clay
84	86	Shell
86	89	Brown clay
89	93	Shell
93	106	Hard Brown clay
106	109	Sandy Brown clay
109	115	Shell
115	128	Brown clay
128	130	Shell
130	136	Soft Brown clay
136	144	Brown clay
144	156	Soft Sandy Brown clay
156	158	Shell
158	162	Brown clay
162	164	Shell
164	168	Brown clay
168	172	Shell
172	176	Hard Brown clay
176	181	Sandy Brown clay
181	182	Shell
182	190	Sandy Brown clay
190	194	Shell

Work started 6/26 19 90 Completed 7/6 19 90

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief
Signed _____ (Well Driller)
NAME Superior Drilling Co. (Person, firm, or corporation) (Typed or printed)
Address 1146 Grand Ave
City Marysville CA ZIP 95901
License No. 466272 Date of this report 7-6-90

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

REGION ? 1/3BA

COUNTY Sutter

NEAR

MO-13N/3E-36E1

BASIN

DWR No. 16

OTHER Nos. #133 36 S 1 7-27B 119

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

51-746

LOCATION

OWNER

DRILLED BY Crandall and Herr ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED Nov. 1926

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Driller

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
8		Soil		
30		Clay, yellow		
31		Gravel and clay		
42		Dead gravel		
129		Variations of blue clay		
132		Sand and gravel		
		Plotted and Coded As Well 13N/3E-36E1		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF

FORM 263. 47965 7-51 5M ② SPO

2/10BA

MD-13N/3E-36F1

REGION

COUNTY Sutter

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

BASIN 16

DWR No. 133 36 F 1 B & M

OTHER NOS.

51-458 180

LOCATION

OWNER ADDRESS

DRILLED BY Crandall and Herr ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED Feb. 1935

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Driller

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
2		Silt		
4		Sand		
22		Silt soil		
35		Brown clay		
39		Brown san (Perforated)		
44		Clay		
60		Sandy clay		
67		Sand		
		Water table 17'		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF

FORM 263. 47625 7-51 5M ② SPO

MD 13N/4E-31J1

REGION

COUNTY Sutter

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

51-789

WELL LOG

BASIN

DWR No. 13N 31J1 ; B & M

R Nos. 16-33

167

LOCATION

OWNER

DRILLED BY Crandall and Herr ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED 3/39

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE 14" No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Log book

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
3		Soil		
13		Clay, brown		
15		Sand, brown		
36		Clay, brown		
40		Gravel		
50		Gravel, cemented		
68		Clay, brown		
74		Clay, brown, soft		
98		Clay, brown		
108		Sand, brown, cemented		
114		Clay, brown		
116		Sand, cemented		
120		Gravel and sand, caving at 105		

Noted and Coded As Well 13N/4E-31J1

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF

FORM 263. 47865 7-51 5M ② SPO

13N/4E-31K1

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 751

LOCATION ~~NOT~~ CHECKED
Do Not Fill In
No 54781
State Well No. 13N/4-31K1
Other Well No. ~~13N/4E-6~~

(1) OWNER:
Name
Address 6

(2) LOCATION OF WELL:
County Sutter Owner's number, if any—
R. F. D. or Street No. One Mile North of the East Nicolaus highway. ¼ Mile East of the Feather River

(3) TYPE OF WORK (*check*):
New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:
SINGLE ☒ DOUBLE ☐

From ft.	to ft.	Diam.	Gage or Wall
1	45	14"	10 RD

Type and size of shoe or well ring 3/4x6
Describe joint ~~3/4x6~~ Butt Weld

If gravel packed

Diameter of Bore	from ft.	to ft.

Size of gravel:

(7) PERFORATIONS:
Type of perforator used None
Size of perforations in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☐ No If yes, note depth of strata

From ft.	to ft.

Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found 16 ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Star Well
Yield: 2300 gal./min. with 55 ft. draw down after 8 hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:
Total depth 82 ft. Depth of completed well 82 ft.
Formation: *Describe by color, character, size of material, and structure.*

ft. to	ft.	
0	16	Top Soil
16	43	Sand
43	53	Clay
53	70	Brown Silt Packed
70	82	Gravel & Sand

1 MI NO. OF NICOLAUS ON EL CENTRO RD, W ON CORNELIUS AVE 1 MI TO WHITE GATE AT 90° TURN IN RD. .5 MI ALONG DIRT RD TO SMALL POND ADJACENT TO LEVEE, WELL IS WEST OF RD & NEXT TO POND

CONFIDENTIAL
Section 7076.1, Water Code

FOR OFFICIAL USE ONLY

Work started 1-25-60 19 . Completed 1-28 1960

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Star Well Drilling & Pump Co.
(Person, firm, or corporation) (Typed or printed)
Address Live Oak Highway
Yuba City, California
[SIGNED] Eugene B. Mack
Well Driller
License No. 121868 Dated 2-2, 1960

57025 6-57 50M QUIN △ SPO

DWR 188 (REV. 3-54)

N.B. location of this well may not agree with Hyde Forbes or Kirk Bryan. This location was obtained from Natomas Co. records and is believed to be correct.

Sheet 1

REGION

COUNTY Sutter

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

51-791

WELL LOG

BASIN MD 13N/4E-32H1

DWR No. 13N 32H1 : B & M

WELL Nos. 16-35

165

LOCATION Lot 29, Subdivision 1, Bear River Garden, Subarea, Nicolas Quad
Rio Oso, California

OWNER

DRILLED BY Linscott Drilling Co. ADDRESS
Log 43

DRILLING METHOD GRAVEL PACKED DATE COMPLETED Aug. 6-Sept. 30, 1913

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION DWR - Hyde Forbes

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
10		Top soil	10	
18		Hard pan	8	
30		Soft clay	12	
35		Fine gravel	5	
69		Clay	34	
73		Loose sand	4	
95		Clay	23	
120		Clay and fine gravel	25	
140		Yellow clay	20	
155		White clay	15	
170		Yellow clay	15	
207		All clay with small gravel	37	
210		Sand, gravel, and clay	3	
218		White clay	8	
272		Blue shale	54	
300		Shale and lava	28	
307		Shale	7	
315		Lava	8	
320		Shale	5	
330		Lava	10	
348		Lava sand	18	
395		Blue shale	47	
397		Gravel	2	
405		Shale	8	
430		Lava	25	
435		Shale	5	
450		Lava	15	
463		Blue shale	13	

Plotted and Coded As Well 13N 4E 32H1

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF 2

FORM 263. 47695 7-51 5M ⓢ SPO

FORM 115-A
INVESTIGATION

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

51-791

SHEET 2

NUMBER 134 32H1

WELL LOG

LOCAL DESIGNATION 16-35

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNESS FEET	% VOIDS	ABSOLUTE VOIDS FEET	TOTAL VOIDS FEET
475		Lava	12			
485		Blue shale, sloughing	10			
505		Lava	20			
510		Blue shale	5			
570		Lava	60			
580		Shale	10			
685		Lava	105			
690		Blue shale	5			
710		Lava	20			
735		Blue shale	25			
740		Lava ash	5			
768		Lava	28			
785		Loose lava	17			
795		Hard lava	10			
806		Loose lava	11			
		Casing - 11-5/8" casing 378 ft. deep				
		9-5/8" casing 806 ft. deep				
		Perforations:				
		Double slots from 500' up to 380'				
		600' up to 500'				
		800' up to 600'				
		Some casing pulled out.				
		Test with air line about 200 gals. per minute.				
		Water level 6 ft.				

FOR FIELD COPIES USE ALTERNATE LINES

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

51-467

SHEET 1

SOUTH

Do Not Fill In
State Well No. 13N/4E-32N1
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

120

(1) **Driller:**
Name Frank P. Conley
Address 432 - Feather River Blvd
Marysville, Calif
License No. 105346 Classification C 57

Owner:
Name
Address

(2) **Proposed use or uses** *(check)*:
Domestic ☒ Municipal ☐
Irrigation ☐ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 84 ft.

Depth From Ground Surface

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

	ft. to	4	ft.	top soil
4	" "	5	"	hard pan
5	" "	18	"	brown clay
18	" "	22	"	soft brown clay
22	" "	46	"	brown clay
46	" "	50	"	gray sand
50	" "	75	"	tough brown clay
75	" "	84	"	fine brown sand

Plotted and Coded As Well 13N/4E-32N1

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
53	8"	welded	129	5-2½

Type and size of shoe or well ring 3 X 3/8 Welded joints ☒ Yes ☐ No

ORIGINAL
File Original, Duplicate and Triplicate with the
[redacted] OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

SHEET 2

5446

Do Not Fill In
State Well No. 13N/4E-32N1
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

(7) Perforations:

Type of perforator used

Perforated	ft. to	ft.	Hole size	No. of holes
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "
"	" "	"	" " "	" " "

(8) Water levels:

Depth at which water first encountered 18 ft.
Depth to water before perforating ft.
Depth to water after perforating ft.
Note any change in water level while drilling

(9) Well pumping test:

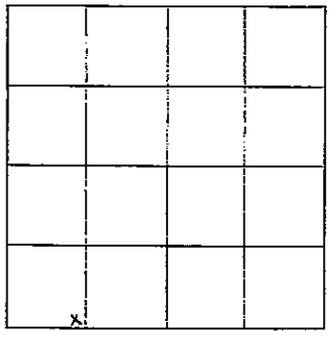
Date of test By whom
Depth to water when test started ft.
G.P.M. at beginning of test
Drawdown from standing level ft.
G.P.M. at completion of test
Drawdown at completion of test ft.
Length of time tested
Temperature of water
Was gas present in water? ☐ Yes ☐ No

(10) General:

Was well gravel packed? Yes Size of rock Thickness of pack
Was a surface sanitary seal provided? No
Were any strata sealed against pollution? ☒ Yes ☐ No If yes, attach detailed description.
Strata sealed 52½ ft. sealed casing driven into sandy clay
Was analysis made of water? ☐ Yes ☒ No If yes, attach copy.
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
If well abandoned, was it plugged and sealed? FOR OFFICIAL USE ONLY
Method of plugging and sealing

(11) Location:

North



1 MILE

(N)

Section No. 32
Township 13 - North
Range 4 - East
Base & Meridian Mt. D
Show location of well in Section, thus (X)
Distances to section lines from well, N or S 75 ft. and E or W 4200 ft.
Show location of nearest known well, thus (O)
Distance to nearest known well ft.

(12) Time of work:

Work started date Aug 8 Completed date Aug 9
Date of this report Oct. 6, 1951

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Frank P. Conley
Well Driller
By Bernice Freeborn
License No. 105346 Classification C 57
Dated Oct. 6, 19 51

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY 23972 3-50 40M QUIN SPO

13N/4E-33J1 — WELL NOT CHECKED

ORIGINAL
File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No. 5 (Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 1105

Do Not Fill In
No. 73352
State Well No. 13N/4E-33J1
Other Well No.

(1) OWNER:

(2) LOCATION OF WELL:

County SUTTER Owner's number, if any— NONE

R. F. D. or Street No. 1 MILE NORTH OF NICALOUS ~~CORNER~~ AVE. ON PACIFIC AVE. HOUSE LOCATED 50 FT WEST OF PACIFIC AVE. - WELL LOCATED 30 FT. NORTH WEST OF GARAGE. (TROWBRIDGE AREA)

(3) TYPE OF WORK (check):

New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [ ]
Cable [X]
Dug Well [ ]

(6) CASING INSTALLED:

SINGLE [X] DOUBLE [ ]

From 0 ft. to 100 ft. Diam. 12 Gage or Wall

Type and size of shoe or well ring 8 X 1/2 X 4

Describe joint BUTT WELDED

If gravel packed

Diameter of Bore	from ft.	to ft.
NONE		

Size of gravel:

(7) PERFORATIONS:

Type of perforator used NONE

Size of perforations — in., length, by — in.

From — ft. to — ft. — Perf. per row — Rows per ft.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [X] Yes [ ] No To what depth 2 FT. ft.

Were any strata sealed against pollution? [X] Yes [ ] No If yes, note depth of strata

From 0 ft. to 100 ft.

Method of Sealing CASING DRIVEN IN CLAY

(9) WATER LEVELS:

Depth at which water was first found 65 FT. ft.

Standing level before perforating NO PERFORATING ft.

Standing level after perforating — — ft.

(10) WELL TESTS:

Was a pump test made? [ ] Yes [X] No If yes, by whom? —

Yield: — gal./min. with — ft. draw down after — hrs.

Temperature of water — Was a chemical analysis made? [ ] Yes [X] No

Was electric log made of well? [ ] Yes [X] No

(11) WELL LOG:

Total depth 155 ft. Depth of completed well 154 ft.

Formation: *Describe by color, character, size of material, and structure.*

ft. to	ft.	
0	3	TOP SOIL
3	30	RED CLAY
30	32	FINE BROWN SAND
32	80	SOFT BROWN CLAY
80	96	FINE BROWN SAND
96	145	HEPUY BROWN CLAY
145	155	BLUE CLAY & FINE SAND (BLUE)

FOR OFFICIAL USE ONLY

Work started MAY 13 1962 Completed MAY 14 1962

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SUTTER PUMP WORKS
(Person, firm, or corporation) (Typed or printed)

Address 909 S WALTON

YUBA CITY CALIF.

[SIGNED] Earl L Lamb
Well Driller

License No. 154299 Dated JUNE 18, 1962

57025 6-57 50M QUIN △ SFO

DWR 188 (REV. 3-54)

ORIGINAL

File with DWR

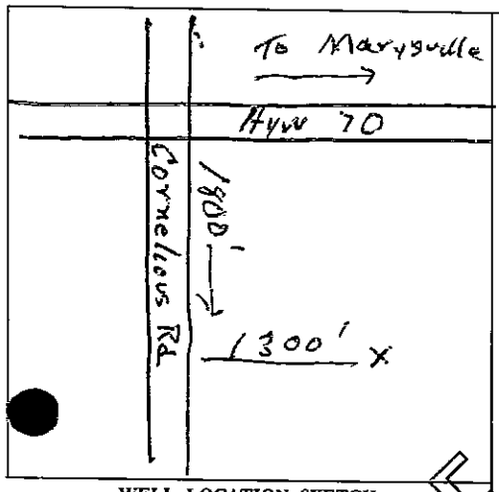
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 111753

Notice of Intent No.
Permit No. or Date
State Well No.
Other Well No 13N/4E-33P

(2) LOCATION OF WELL (See instructions):

County Sutter Owner's Well Number
Well address if different from above East Nicholas
Township Range Section
Distance from cities, roads, railroads, fences, etc. 1300' No of Cornelius Rd 1800' East of Hwy 70



WELL LOCATION SKETCH

(3) TYPE OF WORK:

New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

Domestic ☐
Irrigation ☒
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:

Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:

Yes ☐ No ☐ Size
Diameter of bore
Packed from to ft.

(7) CASING INSTALLED:

Steel ☒ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	152	14	10

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☐ No ☒ If yes, to depth ft.
Were strata sealed against pollution? Yes ☒ No ☐ Interval 0 - 152' ft.
Method of sealing Casing Landed in Clay

(10) WATER LEVELS:

Depth of first water, if known 60 ft.
Standing level after well completion ft.

(11) WELL TESTS:

Was well test made? Yes ☐ No ☒ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft. At end of test ft
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☐ If yes, by whom?
Was electric log made? Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG:

Total depth 336 ft. Depth of completed well 336 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	3	Soil
3	87	Br Clay
87	98	Fine Gravel
98	140	Br Clay
140	150	Cem Sand Gravel 2"
150	205	Br Clay
205	210	Cem Gravel Fine
210	260	Blue Clay
260	268	Cem Bl Sand
268	310	Blue Clay
310	336	Blue Cem Sand Gravel

Work started 9/5/ 1978 Completed 9/12 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SIGNED Henry J. Herr (Well Driller)
NAME H T Henry (Person, firm, or corporation) (Typed or printed)
Address 2410 Tuscan Rd
City Yuba City Zip 95991
License No. 209184 Date of this report 9/20/78

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

SHEET 1
51-793

Do Not Fill In
State Well No. 13N-4E-33Q1
Other Well No. 27-27A
Region 5

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

17

(1) Driller:
Name William Flynn
Address Box 157 Sutter, Calif.
So. Butte Rd at York
License No. 97194 Classification SC 57

Owner:
Name
Address

(2) Proposed use or uses *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☒ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) Equipment used *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) Type of work *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) Well log:
Total depth of well 300 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface				
0	ft. to	4	ft.	Top Soil
4	" "	27	"	Yellow Clay
27	" "	31	"	Sand and Decomposed Granite
31	" "	50	"	Yellow Clay and Decomposed Granite
50	" "	65	"	Sandy Yellow Clay
65	" "	120	"	Yellow Clay
120	" "	134	"	Sandy Yellow Clay
134	" "	161	"	Yellow Clay
161	" "	174	"	Hard Sand
174	" "	240	"	Yellow Clay
240	" "	280	"	Blue Clay
280	" "	290	"	Brown Lava Sand
290	" "	300	"	Blue Clay

Plotted and Coded
As Well 13N 1 4E 33G1

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) Casing left in well:

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
70	14	3/16 welded	Steel	70

Type and size of shoe or well ring 14" X 5/8" X 4" Welded joints—☒ Yes ☐ No

ORIGINAL
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DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

SHEET 2

27-27A 51-793

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Do Not Fill In
State Well No. 13N-4E-33Q1
Other Well No. 27-27A
Region 5

(7) Perforations:

Type of perforator used None

Perforated ____ ft. to ____ ft. Hole size ____ No. of holes ____

" " " " " " " " " " " "

(8) Water levels:

Depth at which water first encountered 40 ft.
Depth to water before perforating ____ ft.
Depth to water after perforating ____ ft.
Note any change in water level while drilling ____

(9) Well pumping test:

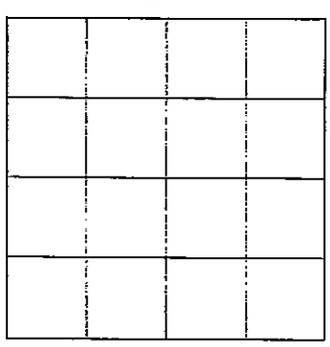
Date of test ____ By whom ____
Depth to water when test started ____ ft.
G.P.M. at beginning of test ____
Drawdown from standing level NO ft.
G.P.M. at completion of test ____
Drawdown at completion of test ____ ft.
Length of time tested ____
Temperature of water ____
Was gas present in water? ☐ Yes ☒ No

(10) General:

Was well gravel packed? no Size of rock ____ Thickness of pack ____
Was a surface sanitary seal provided? ____
Were any strata sealed against pollution? ☐ Yes ☐ No If yes, attach detailed description.
Strata sealed ____
Was analysis made of water? ☐ Yes ☐ No If yes, attach copy.
Was electric log made of well? NO ☐ Yes ☐ No If yes, attach copy.
If well abandoned, was it plugged and sealed? ____ FOR OFFICIAL USE ONLY
Method of plugging and sealing ____

(11) Location:

North



1 MILE

Section No. 33
Township Nicolas
Range Sutter County
Base & Meridian ____
Show location of well in Section, thus (X)
Distances to section lines from well, N or S 500 N ft. and E or W ____ ft.
Show location of nearest known well, thus (O)
Distance to nearest known well 500 ft.

1-Mile North & 1 Mile East of East Nicolas, 500 ft North of Road

(12) Time of work:

Work started date June 5 Completed date June 8 51
Date of this report June 25 51

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Wm G Lynn
Well Driller

By ____

License No. 97194 Classification 3057

Dated June 25, 1951

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY 23972 3-50 40M QUIN SPO

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

CONFIDENTIAL LOG
Water Code Sec. 13752

Do Not Fill In

No 16850

State Well No. 13N/4E-34M

Other Well No. 13N/4E-34F

(2) LOCATION OF WELL:

County Tehama Owner's number, if any 0

Township, Range, and Section

Distance from cities, roads, railroads, etc.

(3) TYPE OF WORK (check):

New Well ☑ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☑
Other ☐

(6) CASING INSTALLED:

STEEL: OTHER:
SINGLE ☑ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	80	8"	18ga.

If gravel packed

Diameter of Bore	From ft.	To ft.

Size of shoe or well ring 8x4x8"

Size of gravel:

Describe joints B/W

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☑ No ☐ To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From 6 ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 95 ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing 585 ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☑ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☑

Was electric log made of well? Yes ☐ No ☑ If yes, attach copy

(11) WELL LOG:

Total depth 130 ft. Depth of completed well 130 ft.

Formation: *Describe by color, character, size of material, and structure*

ft. to	ft.	
0	2	Top soil.
2	25	Soft Clay
25	35	Dry Sand
35	60	Soft Yellow Clay
60	78	Soft Gravel
78	125	Yellow Clay
125	130	Sand.

This Well is approx 2 miles South of Vic Cobb Rd on Jacobs Ave. Approx 4 mi. East out in Pasture.

Plotted and Coded
As Well 13N/4E-34M SC

Work started 4/5 1971 . Completed 4/6 1971

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ramona Bor Pump Co.
(Person, firm, or corporation) (Typed or printed)

Address 470 N. Los Hoss Blvd
Los Hoss City Calif.

[SIGNED] J. M. Bergeman
(Well Driller)

License No. 196093 Dated 4/13, 1971

SKETCH LOCATION OF WELL ON REVERSE SIDE

CONFIDENTIAL LOG
Water Code Sec. 13752

DWR 188 (REV. 9-65)

56391-950 10-65 50M TRIP ① △ OSP

ORIGINAL
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DIVISION OF WATER RESOURCES
P.O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

51-469 LOCATION NOT CHECKED SHEET 1

Do Not Fill In
State Well No.
Other Well No. 13N-4E-35H
Region 5

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

206

DELIVERED Section 7076.1, Water Code

(1) **Driller:**
Name Chas E Crain Jr
Address [illegible]
License No. 123196 Classification C-57

Owr
Nam
Addr

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☑ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☑
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☐ Reconditioning of well ☑
Deepening existing well ☐

(5) **Well log:**
Total depth of well 544 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface			
ft.	to	ft.	
0	"	372	Unknown
372	"	382	Gray Sand (Med)
382	"	510	Ream & Clean out - Clay Mud
510	"	544	Black Sand Cemented (Coarse)

Plotted and Coded
As Well 13N 14E - 35H80

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
60	12	Single Welded	250	360 To 390

Type and size of shoe or well ring 2-12X4X3/8" Steel Shoes Welded joints ☑ Yes ☐ No

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

51-469 SHEET 2 106
Sutter

Do Not Fill In
State Well No.
Other Well No. 13N-4E-35
Region 5

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

CONFIDENTIAL
Section 7076.1 Water Code

(7) Perforations:

Type of perforator used Torch

Perforated ft. to ft. Hole size No. of holes

" " " " " " " " "
" Top 30' " Slotted " " 4" Slots to the round " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "
" " " " " " " " "

(8) Water levels:

Depth at which water first encountered 28 ft.
Depth to water before perforating ft.
Depth to water after perforating ft.
Note any change in water level while drilling
None

(9) Well pumping test:

Date of test By whom
Depth to water when test started ft.
G.P.M. at beginning of test
Drawdown from standing level ft.
G.P.M. at completion of test
Drawdown at completion of test ft.
Length of time tested
Temperature of water
Was gas present in water? ☐ Yes ☐ No

(10) General:

Was well gravel packed? No Size of rock Thickness of pack
Was a surface sanitary seal provided?
Were any strata sealed against pollution? ☐ Yes ☐ No If yes, attach detailed description.
Strata sealed
Was analysis made of water? ☐ Yes ☒ No If yes, attach copy.
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
If well abandoned, was it plugged and sealed? FOR OFFICIAL USE ONLY
Method of plugging and sealing

(11) Location:

North

350' north Hicks Rd
100' West of Pleasant Grove Rd.

1 MILE

Section No.
Township
Range
Base & Meridian
Show location of well in Section, thus (×)
Distances to section lines from well, N or S ft. and E or W ft.
Show location of nearest known well, thus (O)
Distance to nearest known well ft.

(12) Time of work:

Work started date 4/20/53 Completed date 4/24/53
Date of this report 5/18/53

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Jas D. Lansdell
Well Driller

By
License No. 193 Classification C-57
Dated May 18, 1953

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY 23972 3-50 40M QUIN SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No._____
(Insert appropriate number)

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 356

Do Not Fill In
No 8627
State Well No._____
Other Well No. 13/4-36F

(1)
Nam
Addr

(2) LOCATION OF WELL:

County Sutter Owner's number, if any—
R. F. D. or Street No. Rio Oso Sub Station
½ mile East of Pleasant Grove Road
on Nicks Road, ½ mile North of Nicks Road

(3) TYPE OF WORK (*check*):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☒ DOUBLE ☐

From	ft. to		ft.	Diam.	Gage or Wall
0		91		8"	8

Type and size of shoe or well ring 8"x4"x5/8"
Describe joint

If gravel packed

Diameter of Bore	from ft.	to ft.

Size of gravel:

(7) PERFORATIONS: None

Type of perforator used
Size of perforations in., length, by in.

From	ft. to	ft.	Perf. per row	Rows per ft.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☒ Yes ☐ No To what depth 6 ft.
Were any strata sealed against pollution? ☐ Yes ☐ No If yes, note depth of strata

From	ft. to	ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found 45 ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:

Was a pump test made? ☒ Yes ☐ No If yes, by whom? SWD & P Co.
Yield: 120 gal./min. with 12 ft. draw down after 8 hrs.
Temperature of water Was a chemical analysis made? ☐ Yes ☐ No
Was electric log made of well? ☐ Yes ☐ No

(11) WELL LOG:

Total depth 150 ft. Depth of completed well 150 ft.
Formation: *Describe by color, character, size of material, and structure.*

	ft. to		ft.	
0	"	2	"	Sand
2	"	12	"	Red Clay
12	"	21	"	brown sandy clay
21	"	56	"	sand & gravel
56	"	59	"	brown sandy clay
59	"	67	"	sand & gravel
67	"	78	"	brown sandy clay
78	"	82	"	cemented sand
82	"	95	"	brown sandy clay
95	"	108	"	cemented sand
108	"	110	"	sand & pea gravel
110	"	150	"	brown sandy clay

Plotted and Coded
As Well 13N 1E-36F5C

FOR OFFICIAL USE ONLY

Work started 6/29/54 19 Completed 7/7/54 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Star Well Drilling & Pump Co.
(Person, firm, or corporation) *(Typed or printed)*
Address P.O. Box 689
Yuba City, Calif.
[SIGNED] Glenn R. Morey
Well Driller
License No. 121868 Dated 7/10/54, 19

95689 3-54 50M QUIN & SPO

DWR FORM NO. 246 (REV. 3-54)

ORIGINAL
File Original, Duplicate and Triplicate
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

51-471

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES 23 B

LOCATION NOT CHECKED
Do Not Fill In

State Well No. .....

Other Well No. 13N-4E-36N

Region .....

Section 7076, 7077, 7078 Water Code

(1) DRILLER: (person, firm, or corporation)

Name Frank P. Conley

Address 432 - Feather River Blvd. Marysville, Calif.

OWNER

Name

Address

(2) Proposed Use (Check)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

84 ft. of 14 in 10 lb./ga. casing left in well

" " " " " " "

" " " " " " "

" " " " " " "

" " " " " " "

Type and size of shoe or well ring 14" 4. X 1/2

(4) PERFORATIONS:

Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.

Depth at which water was first found 50 ft.

Standing level before perforating ft.

Standing level after perforating ft.

Note your observation of any change in water level while drilling 40

Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST:

Capacity gal./min. ft. draw down

Was well gravel packed? No

Were any strata sealed against pollution? Casing driven into clay at 80'

Temperature Was a chemical analysis made? Attach copy

If abandoned was well capped?

(7) TYPE OF WORK (check):

New well ☒ Reconditioning of well ☐

Deepening existing well ☐

(8) LOCATION OF WELL:

County Sutter

R. F. D. or Street No. Pleasant Grove Rd. End of Cornelius Ave.

(9) WELL LOG:

Total depth of well 320 ft.

Formation: Mention size of water gravel—

0	ft. to 28	ft.	top soil
28	" 48	"	coarse sand
48	" 50	"	pea gravel
50	" 190	"	Brown clay
190	" 193	"	brown sand
193	" 198	"	crumbly brown clay
198	" 200	"	pea gravel &
200	" 260	"	Brown clay & gravel
260	" 265	"	Blue clay
265	" 295	"	Brown clay
295	" 319	"	Blue shale
319	" 320	"	clay

Plotted and Coded

As Well 13N 4E 36N80

FOR OFFICIAL USE ONLY

Work started July 3 1953. Completed July 10 1953

Date of Report Aug. 7, 1953

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Frank P. Conley
Well Driller

By [illegible]

License No. [illegible] Classification B-57

Dated Aug 7, 1953

46370 7-51 30M QUIN ① SB

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DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

51-472

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES 329

LOCATION NOT CHECKED
DO NOT FILL IN

State Well No.
Other Well No. 13N-4E-36G
Region

(1) DRILLER: (person, firm, or corporation)
Name Frank P. Conley
Address 432 - Tenth St. Rt. 1, Box 1
Marysville

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:
108 ft. of 14 in 10 lb./ga. casing 107 1/2 left in well
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
Type and size of shoe or well ring 14" 4 X 1/2

(4) PERFORATIONS:
Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 28 ft.
Standing level before perforating ft.
Standing level after perforating ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST: Tested by Rudolf Pump Co. Woodland
Capacity gal./min. ft. draw down
Was well gravel packed? No
Were any strata sealed against pollution?
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(8) LOCATION OF WELL:
County Sutter
R. F. D. or Street No. 1/2 mile south of Hucks Rd. near drain ditch — 1/2 mile east of Pleasant Grove Rd. East of Gallagher home.

(9) WELL LOG:
Total depth of well 255 ft.
Formation: Mention size of water gravel—

0 ft. to	6 ft.	top soil
6 "	30 "	gravel
30 "	90 "	brown clay
90 "	105 "	sand
105 "	205 "	brown clay
205 "	215 "	gravel
215 "	240 "	blue clay
240 "	255 "	fine sand

Plotted and Coded
As Well 13N / 4E - 36 Q K

FOR OFFICIAL USE ONLY

Work started Mar. 6 1953. Completed Mar. 16 1953
Date of Report July. 23, 1953

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
[SIGNED] Frank P. Conley
Well Driller
By Bernice Freeborn
License No. 105346 Classification C 57
Dated July 23, 1953

46370 7-51 30M WIN ① SPO

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File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SHEET 1

45

LOCAT 31-113 ECKED

Do Not Fill In
State Well No.
Other Well No. 13N/5E-27Q
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

45

(1) **Driller:**
Name William Flynn
Address Box 157 Sutter, Calif.

License No. 97194 Classification B-57

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☒ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 400 ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface				
1	ft. to	3	ft.	top soil
3	" "	10	"	hard pan
10	" "	35	"	brown clay
35	" "	40	"	brown clay
40	" "	55	"	yellow clay
55	" "	58	"	packed gravel
58	" "	85	"	soft clay
85	" "	100	"	brown clay
100	" "	110	"	yellow hard clay
110	" "	120	"	soft yellow clay
120	" "	170	"	hard gray clay
170	" "	180	"	soft clay
180	" "	190	"	yellow clay
190	" "	200	"	hard sand
200	" "	250	"	tough clay
250	" "	290	"	gray clay
290	" "	300	"	hard sand
300	" "	360	"	yellow clay
360	" "	370	"	blue clay
370	" "	400	"	hard gray clay
400	" "	405	"	blue sand
405	" "		"	blue shale
	" "		"	
	" "		"	
	" "		"	

Plotted and Coded
As Well 13N 10SE 27Q

FOR OFFICIAL USE ONLY

CONFIDENTIAL
Section 7076.1, Water Code

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
132	14	single	10#	132

Type and size of shoe or well ring 14" x 5/8" x 4" Welded joints—☒ Yes ☐ No

SPO

ORIGINAL
File original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

91-113 45
SHEET 2
Placer

LOCATION NOT CHECKED
LOCATION NOT CHECKED
Do Not Fill In
State Well No.
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

(7) Perforations:

Type of perforator used Mills

Perforated 90 ft. to 124 ft. Hole size 1/2 X 2 No. of holes 180

" " " " " " " " " " " " " "

" " " " " " " " " " " " " "

" " " " " " " " " " " " " "

" " " " " " " " " " " " " "

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" " " " " " " " " " " " " "

" " " " " " " " " " " " " "

(8) Water levels:

Depth at which water first encountered 40 ft.

Depth to water before perforating 40 ft.

Depth to water after perforating 40 ft.

Note any change in water level while drilling

(9) Well pumping test:

Date of test None By whom

Depth to water when test started ft.

G.P.M. at beginning of test

Drawdown from standing level ft.

G.P.M. at completion of test

Drawdown at completion of test ft.

Length of time tested

Temperature of water

Was gas present in water? ☐ Yes ☐ No

(10) General:

Was well gravel packed? No Size of rock Thickness of gravel

FOR OFFICIAL USE ONLY

Was a surface sanitary seal provided?

Were any strata sealed against pollution? ☐ Yes ☐ No If yes, attach detailed description.

Strata sealed

Was analysis made of water? ☐ Yes ☐ No If yes, attach copy.

Was electric log made of well? ☐ Yes ☐ No If yes, attach copy.

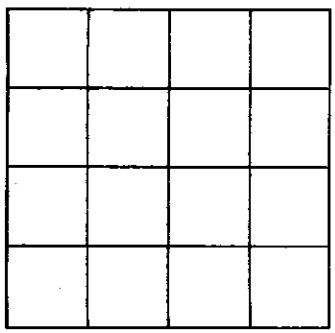
If well abandoned, was it plugged and sealed?

Method of plugging and sealing

CONFIDENTIAL
Section 7076.1, Water Code

(11) Location:

North



1 MILE

Section No. 27

Township 10 12

Range Placer County

Base & Meridian

Show location of well in Section, thus (X)

Distances to section lines from well, N or S ft. and E or W ft.

Show location of nearest known well, thus (O)

Distance to nearest known well 1800 ft.

(12) Time of work:

Work started date 11/30/51 Completed date 12/5/51

Date of this report 3/3/52

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Wm A Lyme
Well Driller

By

License No. 97194 Classification B057

Dated March 3, 1952

3rd road south of Sheridan on old Rosville road 11/2 miles west of old Rosville road, 1/4 mile past 1st set of buildings, 800 ft. north of road.

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY 23972 3-50 40M QUIN &PO

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

No. 44513

Notice of Intent No. 135681

Local Permit No. or Date

State Well No.

Other Well No. 13N/5E-28L

(1) OWNER:
Name
Address
City

(2) LOCATION OF WELL (See instructions):
County Sutter Owner's Well Number
Well address if different from above Waltz Rd
Township 13N Range 5E Section 28
Distance from cities, roads, railroads, fences, etc. N/E quarter of s/e quarter of section 28 1½ miles East of Brewer Rd and ½ mile north of Waltz Rd.

WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well [X] Deepening [ ]
Reconstruction [ ]
Reconditioning [ ]
Horizontal Well [ ]
Destruction [ ] (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic [ ]
Irrigation [X]
Industrial [ ]
Test Well [ ]
Stock [ ]
Municipal [ ]
Other [ ]

(5) EQUIPMENT:
Rotary [ ] Reverse [ ]
Cable [X] Air [ ]
Other [ ] Bucket [ ]

(6) GRAVEL PACK:
Yes [ ] No [X] Size
Diameter of bore
Packed from ft. to ft.

(7) CASING INSTALLED:
Steel [ ] Plastic [ ] Concrete [X]

(8) PERFORATIONS:
Type of perforation or size of screen Mills knife

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	304	16	3/16	130	190	

(9) WELL SEAL:
Was surface sanitary seal provided? Yes [ ] No [X] If yes, to depth ft.
Were strata sealed against pollution? Yes [X] No [ ] Interval ft.
Method of sealing Casing driven 31' into light brown clay

(10) WATER LEVELS:
Depth of first water, if known ft.
Standing level after well completion 72. ft.

(11) WELL TESTS:
Was well test made? Yes [X] No [ ] If yes, by whom? Valley Pump
Type of test Pump [X] Bailer [ ] Air lift [ ]
Depth to water at start of test 67 ft. At end of test 186 ft
Discharge 2950 gal/min after 21½ hours Water temperature
Chemical analysis made? Yes [ ] No [X] If yes, by whom?
Water quality log made? Yes [ ] No [X] If yes, attach copy to this report

(12) WELL LOG: Total depth 515 ft. Depth of completed well ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	4	top soil
4	6	red clay
6	37	Brown clay
37	91	Dark brown clay
91	93	quick sand
93	159	cemented sand
159	220	light brown clay
220	225	Black sand
225	250	Cemented gravel
250	296	Brown clay
296	331	cinders & gravel
331	465	Blue clay
465	480	blue shale
480	515	blue clay

Work started 9-26 19 77 Completed 11-15 19 77

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed (Well Driller)

NAME Valley Pump & Motor Works, Inc (Person, firm, or corporation) (Typed or printed)
Address 470 No Geo. Washington Blvd
City Yuba City Zip 95991
License No 256384 Class C-57 Date of this report 11-20-77

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 43816-950 7-76 50M QUAD OT OSP

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

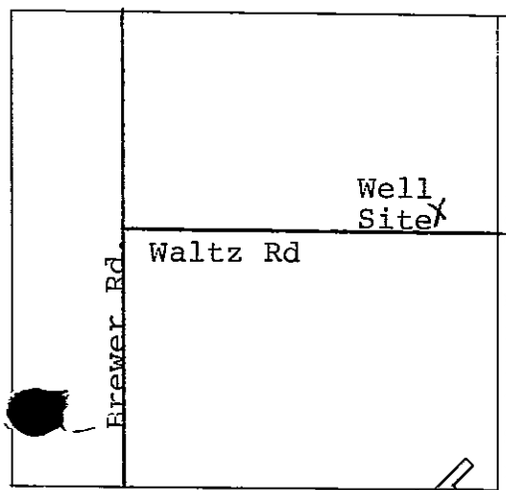
No. 123431

[redacted] of Intent No.
[redacted] Permit No. or Date

State Well No.
Other Well No. 13N/5E-29 R

(1)
Address
City

(2) LOCATION OF WELL (See instructions):
County Sutter Owner's Well Number A-14
Well address if different from above
Township 13 N Range 5E Section SW¼ 28
Distance from cities, roads, railroads, fences, etc. Approx 1 mi east of Brewer Rd on north side of Waltz Rd.



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☒
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

(5) EQUIPMENT:
Rotary ☐ Reverse ☒
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☒ No ☐ Size Pea
Diameter of bore 26
Packed from 0 to 386 ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

(8) PERFORATIONS: Johnson Irrigator
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	233	16	1/4	233	253	100
253	278	16		278	338	100
338	368	16		368	378	100
378	386					

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☐ No ☒ If yes, to depth ft.
Were strata sealed against pollution? Yes ☐ No ☒ Interval ft.
Method of sealing

(10) WATER LEVELS:
Depth of first water, if known ft.
Standing level after well completion 46 ft.

(11) WELL TESTS:
Was well test made? Yes ☒ No ☐ If yes, by whom? EELCO
Type of test Pump ☒ Bailer ☐ Air lift ☐
Depth to water at start of test 52 ft. At end of test 189 ft
Discharge 3000 gal/min after 2 hours Water temperature
[redacted] analysis made? Yes ☐ No ☒ If yes, by whom?
Was electric log made? Yes ☒ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 505 ft. Depth of completed well 386 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	Red gravel, top soil
2	7	Hard pan
7	9	Gravel and clay mixed
9	14	Hard yellow clay
14	31	Rocks and gravel
31	40	Hard yellow clay
40	52	Hard pan
52	54	Coarse sand and gravel
54	65	Hard yellow clay
65	86	Brittle brown clay
86	89	Coarse sand and gravel
89	96	Yellow clay
96	99	Hard gray clay
99	137	Brown sandy clay
137	143	Coarse sand and gravel
143	152	Sandy brown clay
152	173	Green clay
173	180	Blue clay
180	190	Blue clay
190	239	Hard brown clay & cemented sand
239	267	Hard green clay
267	280	Brown cemented sand
280	285	Hard sand and brown hard pan
285	320	Hard shale and sandstone
320	340	Coarse sand and gravel shale
340	345	Hard sandy blue clay
345	350	Hard blue sand stone
350	370	Hard blue clay
370	377	Coarse sand and fine shale
377	400	Sandy blue clay & blue shale
400	441	Blue clay
441	444	Clay and gravel mixed
444	498	Coarse sand
498	500	Sandy blue clay
500	504	Clay and coarse sand
504	505	Hard blue clay
		-
		-
		-

Work started 2-22 19 77 Completed 2-26 19 77

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SIGNED (Well Driller)

NAME E.E. Luhdorff Co/Division of Layne Western
(Person, firm, or corporation) (Typed or printed)
Address P.O. Box 1326
City Woodland Zip 95695
License No. 334205 Date of this report 12-22-77

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

SUTTER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

SHEET 1

13N 2E 32C1

51-123

37

Do Not Fill In
te Well No. 13N 2E-32 C 1
Other Well No.
Region 5

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

(1) **Driller:**
Name J B Breazeale
Address Route 1 Box 312 Live Oak Calif.
License No. Classification

Own
Nam
Addr

(2) **Proposed use or uses** *(check)*:
Domestic ☒ Municipal ☐
Irrigation ☐ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

Type of work *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 120 ft.

Depth From Ground Surface

1	ft. to	30	ft.
30	" "	32	"
32	" "	60	"
60	" "	61	"
61	" "	109	"
109	" "	120	"

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Clay - red
gravel size of an egg (no water)
clay - red
coarse grey sand. (loose)
clay red
sand, grey, coarse, (loose)

Plotted and Coded
As Well 13N 1E 32C1

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
76 ft-	10		10	75 ft-

Type and size of shoe or well ring ½ x 4" Welded joints—☒ Yes ☐ No

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY

23971 3-53 40M QUIN SPO

ORIGINAL
Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

SHEET 2

51-123

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

27

Do Not Fill In
State Well No. 1N/5E-32C1
Other Well No. 51-123
Region 5

(7) Perforations:

Type of perforator used None

Perforated	ft. to	ft.	Hole size	No. of holes
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "
"	" "	" " "	" " "	" " "

(8) Water levels:

Depth at which water first encountered 40 ft.
Depth to water before perforating ft.
Depth to water after perforating ft.
Note any change in water level while drilling
went from 40 to 30

(9) Well pumping test:

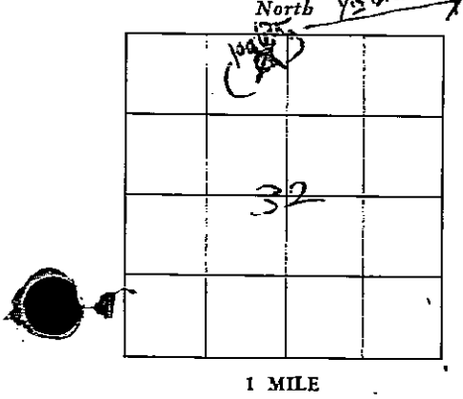
Date of test By whom
Depth to water when test started ft.
G.P.M. at beginning of test
Drawdown from standing level ft.
G.P.M. at completion of test
Drawdown at completion of test ft.
Length of time tested
Temperature of water
Was gas present in water? ☐ Yes ☒ No

(10) General:

Was well gravel packed? no Size of rock Thickness of pack
Was a surface sanitary seal provided?
Were any strata sealed against pollution? ☒ Yes ☐ No If yes, attach detailed description.
Strata sealed all sealed to 75' ft
Was analysis made of water? ☐ Yes ☒ No If yes, attach copy.
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
If well abandoned, was it plugged and sealed?
Method of plugging and sealing

FOR OFFICIAL USE ONLY

(11) Location:



Section No. 32
Township 13 North
Range 5 East
Base & Meridian Diablo
Show location of well in Section, thus (X)
Distances to section lines from well, N or S 100 ft. and E or W ft.
Show location of nearest known well, thus (O)
Distance to nearest known well ½ mi east.

(12) Time of work:

Work started date May 9 Completed date May 28, 1952
Date of this report June 7, 1952

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] J B Broyles
Well Driller

By
License No. Classification
Dated , 19

D.W.R. FORM NO. 246 REGIONAL WATER POLLUTION CONTROL BOARD COPY 23972 3-50 40M SUIN SPO

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

CONFIDENTIAL LOG Water Code Sec. 13752

ORIGINAL File with DWR

Do Not Fill In

№ 113384

State Well No. _____

Other Well No. 13N/6E-35A

(2) LOCATION OF WELL:

County Placer Owner's number, if any

Township, Range, and Section

Distance from cities, roads, railroads, etc.

(3) TYPE OF WORK (check):

New Well ☐*** Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☒** Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐

Cable ☒***

Other ☐

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE ☐ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
144'		14" x	3/16"	B/W Plate Casing		

If gravel packed

Size of shoe or well ring: 14"x6"x3/4" Size of gravel:

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 32 ft.

Standing level before perforating, if known 32 ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☐ If yes, by whom?

gal./min. with ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

Was electric log made of well? Yes ☐ No ☐ If yes, attach copy

(11) WELL LOG:

Total depth 0 ft. Depth of completed well 250 ft.

Formation: *Describe by color, character, size of material, and structure*

FROM: ft.	TO: ft.	
0'	05'	Top Soil
05'	10'	Red Clay
10'	18'	Sand & Gravel 2"
18'	80'	Red Clay & Streaks of Clay & Gravel
80'	85'	Gray Clay & Gravel
85'	95'	Brown Clay & Gravel
95'	97'	Sand & Gravel
97'	115'	Brown Clay With Traces of Gravel and Clay
115'	120'	Loose Sand & Clay
120'	134'	Gray Clay
134'	155'	Packed Sand
155'	167'	Brown Brittle Shale
167'	200'	Blue Clay & Streaks of Blue Shale
200'	207'	Brown Clay
207'	240'	Brown Shale
240'	250'	Blue Shale
250'	250'+	Blackish Packed Sand

CONFIDENTIAL LOG
Water Code Sec. 13752

Work started 2/2/ 19 77 , Completed 2/14/ 19 77

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Frank L. Cornwell & Son
(Person, firm, or corporation) (*Typed or printed*)

Address 521 3rd St. Marysville, California 95901

[SIGNED] _____
(Well Driller)

License No. _____ Dated _____, 19____

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-68)

67139-750 8-72 30M TRIP OT OSP

Geologic Section B-B’

DWR Log No: 51-014 9

USGS-CAL-T1
May 1948

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

No. 11/3E-2B1
Other Nos. 20-9
DWR J

WELL LOG

State California County Sutter Subarea Vernon

Owner

Location

Drilled by Coupe Address

Date Jan. 1932 Casing diam. 16 and 12" Land-surf. alt. 20

Source of data Matomes

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
	Top soil		3
	Hard pan		6
	Brown clay		10
	Sand		12
	Brown clay		45
	Blue clay		98
	Blue sand		125
	Blue sand and gravel		138

Record by Date Sheet of

MD 11N/3E ~~20~~ 2C1

REGION

COUNTY Sutter

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

BASIN

DWR No. 113 ~~20~~ 2C1 B & M

OTHER Nos. 20-9A

24

DWR Log No: 51-015

LOCATION Feather River, NE. 1/4 Sec. 2, T. 11 N., R. 3 E., South Portion

OWNER ADDRESS

DRILLED BY Francis Coupe ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED March 13, 1932

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE 16, 12, and 10" No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Natomas Co.

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICKNESS	SP. YIELD %
17		Brown clay		
19		Brown sand		
45		Brown clay		
80		Blue clay		
90		Fine Blue sand		
100		Blue sandy clay		
122		Blue sand		
125		Brown sandy clay		
128		Blue sand		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY ok DATE 11-1-48 SHEET 1 OF 546

FORM 263. 47835 7-51 5M © SPO

DWR Log No: 51-018 MD 11N/3E-3C2

REGION

COUNTY Sutter

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

BASIN

DWR No. 113 3C2 : B & M

OTHER Nos. 20-8

21

LOCATION Natomas, Feather River, NE 1/4 Sec. 3, T. 11 N., R. 3 E., F-1 Property for F. R. Pump Unit No. 3

OWNI ADDRESS

DRILLED BY Vernon McGrew ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED May 1937

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE 14" No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Natomas

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
18		Soil and silt		
35		Sand ans small gravel		
87		Clay		
95		Hard sand		
110		Tight gravel		
		Loose gravel		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY ok DATE 11-1-48 SHEET 1 OF 544

FORM 263. 47885 7-51 5M ② SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES 218

DWR Log No. 51-043
LOCATION CHECKED Do Not Fill In

State Well No. 11N/4E-3C1

Other Well No. ~~11N-4E-30~~

Region 5

CONFIDENTIAL Section 7076, Water Code

(1) DRILLER: (person, firm, or corporation)

Name Frank P. Conley

Address 432 - Feather River Blvd.
Marysville, Calif.

OWNER

Name

Address

(2) Proposed Use (Check)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

80 ft. of 14" in 3/16 lb./ga. casing 79½ left in well

" " " " " " " "

" " " " " " " "

" " " " " " " "

" " " " " " " "

Type and size of shoe or well ring 14" 4 X ½

(4) PERFORATIONS:

Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.

Depth at which water was first found 18 ft.

Standing level before perforating ft.

Standing level after perforating ft.

Note your observation of any change in water level while drilling

Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST:

Capacity gal./min. ft. draw down

Was well gravel packed? No

Were any strata sealed against pollution?

Temperature Was a chemical analysis made? Attach copy

If abandoned was well capped?

(7) TYPE OF WORK (check):

New well ☒ Reconditioning of well ☐

Deepening existing well ☐

(8) LOCATION OF WELL:

County Sutter

R. F. D. or Street No.

Prairie Ave. — 1 mile North
& Hounslow Rd. — east of
Arthur Crescent home

(9) WELL LOG:

Total depth of well 250 ft.

Formation: Mention size of water gravel—

0	ft. to 15	ft.	Top soil	5
15	" 25	"	sand	20
25	" 50	"	clay	3
50	" 60	"	fine gravel	15
60	" 115	"	gray clay	3
115	" 140	"	sand, soft	20
140	" 200	"	brown clay	3
200	" 215	"	sandy	20
215	" 240	"	clay	3
240	" 250	"	brown sand	20

FOR OFFICIAL USE ONLY

Work started Nov. 8 19 52. Completed Nov. 15 19 52

Date of Report May 21, 1953

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Frank P. Conley
Well Driller

By Bernice Freeborn

License No. 105346 Classification C 57

Dated May 21, 1953

46370 7-51 30M QUIN ① SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES 253

DWR Log No: 51-050
LOCATION NOT CHECKED
Do Not Fill In

State Well No. .....
Other Well No. 11N-4E-4A
Region .....

CONFIDENTIAL Section 7076 Water Code

(1) DRILLER: (person, firm, or corporation)

Name Frank P. Conley
Address 432-Feather River Blvd
Marysville, Calif.

OWNER:

Name
Address

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

Liner	48	ft. of	12	in	10	lb./ga. casing	48	left in well
"	40	"	10	"	12	" "	40	" " "
"	60	"	8	"	12	" "	60	" " "
		"		"		" "		" " "
		"		"		" "		" " "

Type and size of shoe or well ring 12" 3 x 3/8

(4) PERFORATIONS:

Type of perforator used Burnt with acetylene

12" liner	Perforated	180	ft. to 216	ft.	7	holes per	12	in.
10" liner		275	" 291	"	5	" "	12	"
8" liner		330	" 390	"	5	" "	12	"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"
			"	"		" "		"

Diameter of perforations 1/4 in., length 3 in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 20 ft.
Standing level before perforating 20 ft.
Standing level after perforating 20 ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST: Tested by Mr. Wilson Woodland

Capacity 1700 gal./min. 85 ft. draw down

Was well gravel packed? No
Were any strata sealed against pollution? No
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):

New well ☐ Reconditioning of well ☐
Deepening existing well ☒

(8) LOCATION OF WELL:

County Sutter
R. F. D. or Street No.
On levee road - 3/4 S mile
North of Howsley Rd.
Pleasant Grove, Calif.

(9) WELL LOG:

Total depth of well 400 ft.

Formation: Mention size of water gravel—

0 ft. to 207 ft.	old hole	
207 " 280 "	sand, run-in	
280 " 300 "	gravel	
300 " 310 "	sand	
310 " 355 "	brown clay	
355 " 365 "	sand - water	
365 " 385 "	gray clay	
385 " 390 "	Tuscan Flute clay	
390 " 400 "	blue sand	

FOR OFFICIAL USE ONLY

Work started Nov 20 19 53 Completed Dec 10 19 53
Date of Report December 10, 19 53

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Frank P. Conley
Well Driller
By Bernice Freebarn
License No. 105346 Classification C 57
Dated December 10, 19 53

46370 7-51 30M QUIN ① SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES 186

DO NOT FILL IN

LOCATION NOT CHECKED

DWR Log No: 51-051

State Well No.

Other Well No. 11N - 4E - 5C

Region 5

CLEARED Section 7076, Water Code

(1) DRILLER: (person, firm, or corporation)

Name Frank P. Conley

Address 432 - Feather River Blvd. Marysville, Calif.

OWNER:

Name

Address

(2) Proposed Use (Check)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

105 ft. of 14 in 3/16 lb./ga. casing 104½ left in well

Type and size of shoe or well ring 14" 4 X ½

(4) PERFORATIONS:

Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.

Depth at which water was first found 14 ft.

Standing level before perforating ft.

Standing level after perforating ft.

Note your observation of any change in water level while drilling

Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST:

Capacity 2000 gal./min. 50 ft. draw down

Was well gravel packed? No

Were any strata sealed against pollution?

Temperature Was a chemical analysis made? Attach copy

If abandoned was well capped?

(7) TYPE OF WORK (check):

New well ☒ Reconditioning of well ☐

Deepening existing well ☐

(8) LOCATION OF WELL:

County Sutter

R. F. D. or Street No. South side of Catlett Rd. — approx 3 1/4 S mile west of "E" Centro Rd.

(9) WELL LOG:

Total depth of well 145 ft.

Formation: Mention size of water gravel

0	ft. to 16	ft.	tough clay
16	" 40	"	sand
40	" 75	"	brown clay
75	" 105	"	blue sand
105	" 120	"	dark clay
120	" 130	"	gravel
130	" 145	"	sand

FOR OFFICIAL USE ONLY

Work started Feb 4 19 53 Completed Feb 9 19 53

Date of Report Mar. 25, 19 53

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Frank P. Conley
Well Driller

By Bernice Freeborn

License No. 10546 Classification C57

Dated Mar. 25, 19 53

46270 7-51 30M QUIN ① SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES 228

DWR Log No: 51-172
LOCATION ~~NOT~~ CHECKED

State Well No. 12N/3E-36Q2
Other Well No. ~~12N 4E-31E~~
Region

(1) DRILLER: (person, firm, or corporation)
Name Frank P. Conley
Address 432-Feather River Blvd.
Marysville, Calif.

OWNER
Name
Addre

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:
176 ft. of 14 in. 10 lb./ga. casing 175½ left in well
" " " " " " " "
" " " " " " " "
" " " " " " " "
" " " " " " " "
Type and size of shoe or well ring 14" 4 X ½

(4) PERFORATIONS:
Type of perforator used mills perforator
Perforated 125 ft. to 135 ft. 8 holes per 12 in.
" 153 " 165 " 8 " " 12 "
Diameter of perforations 3/4 in., length 3 in.

(5) WATER LEVELS:
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 14 ft.
Standing level before perforating 17 ft.
Standing level after perforating 14 ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST:
Capacity 1150 gal./min. 39 ft. draw down
Was well gravel packed? No
Were any strata sealed against pollution? No
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(8) LOCATION OF WELL:
County Sutter
R. F. D. or Street No. On Ukropina ranch
Catlett Rd. - 2 miles
west of El Centro Blvd. -
back of equipment shed
Pleasant Grove, Calif.

(9) WELL LOG:
Total depth of well 240 ft.
Formation: Mention size of water gravel—

0	ft. to 2	ft.	top soil
2	" 6	"	hardpan
6	" 18	"	sandy clay
18	" 40	"	gray clay
40	" 50	"	sand
50	" 80	"	blue clay
80	" 85	"	sand
85	" 130	"	blue sandy clay
130	" 140	"	blue sand
140	" 160	"	blue clay
160	" 172	"	gravel
172	" 200	"	blue clay
200	" 210	"	blue sand
210	" 240	"	blue clay

FOR OFFICIAL USE ONLY

Work started Sept. 19 1953. Completed Sept. 30 1953
Date of Report October 6, 1953

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
[SIGNED] Frank P. Conley
Well Driller
By Bernice Freeborn
License No. 105346 Classification C 57
Dated October 6, 1953

46370 7-51 30M QUIN ① SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

51-349

SHEET

Do Not Fill In
State Well No. 12N/4E-33P1
Other Well No.
Region

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

119

(1) **Driller:**
Name Frank P. Conley
Address 432 - Feather River Blvd
Marysville, Calif.
License No. 105346 Classification C 57

Owne
Name
Addre

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☒ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 185 ft.

Depth From Ground Surface

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

	ft. to	6 ft.	top soil
6	" "	20 "	coarse, granulated sand X
20	" "	35 "	blue clay,
35	" "	45 "	sand & Gravel
45	" "	70 "	light grey clay
70	" "	80 "	red, bouldy
80	" "	88 "	red soft clay
88	" "	106 "	cemented granite X
106	" "	115 "	sandy
115	" "	185 "	gray clay
185	" "	200 "	

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
91	14"	welded	10 g	90 1/2
24	12"	"	10 g	
	14" 3 X 1/2			

Type and size of shoe or well ring Welded joints—☒ Yes ☐ No

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

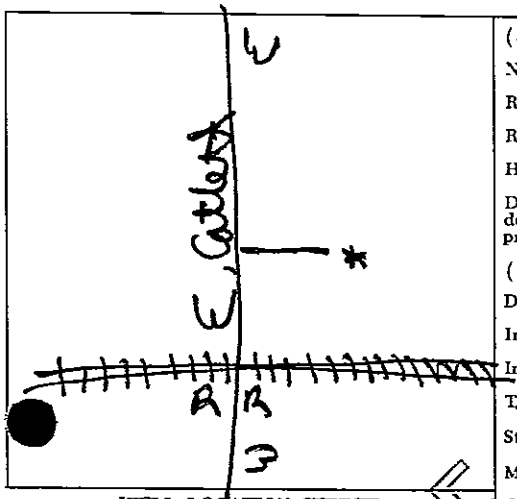
Do not fill in
No. 209372

Notice of Intent No.
Permit No. or Date 4/21/83

State Well No.
Other Well No. 12N04E34J

(1)
Addr
City

(2) LOCATION OF WELL (See instructions):
County Sutter Owner's Well Number
Well address if different from above same
Township Range Section
Distance from cities, roads, railroads, fences, etc. 45' west of house, between corner of garage and tree.



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well [X] Deepening [ ]
Reconstruction [ ]
Reconditioning [ ]
Horizontal Well [ ]
Destruction [ ] (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic [X]
Irrigation [ ]
Industrial [ ]
Test Well [ ]
Stock [ ]
Municipal [ ]
Other [ ]

(5) EQUIPMENT:
Rotary [ ] Reverse [ ]
Cable [X] Air [ ]
Other [ ] Bucket [ ]

(6) GRAVEL PACK:
Yes [ ] No [X] Size
Diameter of bore
Packed from ft. to ft.

(7) CASING INSTALLED:
Steel [X] Plastic [ ] Concrete [ ]

From ft.	To ft.	Dia. in.	Gage or Wall
0	80	10	10ga

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:
Was surface sanitary seal provided? Yes [ ] No [X] If yes, to depth ft.
Were strata sealed against pollution? Yes [ ] No [X] Interval ft.
Method of sealing

(10) WATER LEVELS:
Depth of first water, if known 1 ft.
Standing level after well completion 9 ft.

(11) WELL TESTS:
Was well test made? Yes [ ] No [X] If yes, by whom?
Type of test Pump [ ] Bailer [ ] Air lift [ ]
Depth to water at start of test ft. At end of test ft.
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes [ ] No [X] If yes, by whom?
Was electric log made? Yes [ ] No [X] If yes, attach copy to this report

(12) WELL LOG: Total depth 165 ft. Depth of completed well 135 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)	
0	1	top soil	
1	8	coarse granite sand	WB
8	17	yellow tough clay	
17	27	brown sandy clay	
27	37	coarse granite sand&sm. grav.	WB
37	52	brown tough clay	
52	61	red sandy clay	
61	64	yellow soft clay	
64	71	yellow tough clay	
71	77	brown sandy brittle clay	
77	81	yellow tough clay	
81	85	brown sandy brittle clay	
85	103	yellow silty clay	
103	106	yellow shale clay	
106	114	brown sandy clay	
114	119	gray fine packed sand	WB
119	130	yellow sandy clay	
130	137	yellow tough clay	
137	144	brown sandy brittle clay	
		155-165	
144	155	yellow tough clay/br.coarse loose	

Work started 4/8 19 83 Completed 4/19 19 83

WELL DRILLER'S STATEMENT: sand&sm.grav. WB
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
SIGNED John A. Beebe (Well Driller)
NAME John A. Beebe (Person, firm, or corporation) (Typed or printed)
Address 2574 16th St.
City Sacramento Zip 95818
License No. 392469 Date of this report 4/21/83

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

CONFIDENTIAL LOG
Water Code Sec. 13752

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do Not Fill In

№ 115437

State Well No.
Other Well No. 12N/4E-35P

(1) OWNER:

Name
Addre

(2) LOCATION OF WELL:

County SUTTRR Owner's number, if any 75-1

Township, Range, and Section 12N, R4E, Sec. 35

Distance from cities, roads, railroads, etc. 2½mi. E. on Cattlet Rd., off Hwy. 99, 100' north.

(3) TYPE OF WORK *(check)*:

New Well XX Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE *(check)*:

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation XX Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL XX OTHER:
SINGLE ☐ DOUBLE ☐

From ft.	To ft.	Diam.	Gage or Wall
0	137	16"OD	¼"
157	191	"	"
278	326	"	"
390	400	"	"

Size of shoe or well ring:

Describe joint Collared Welded

If gravel packed

Diameter of Bore	From ft.	To ft.
26"	0	
"		
"		
"		

Size of gravel: MIX #31

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen Milled Slot & Fulflo louvered

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
137	157	16"OD	2½x.125	milled slot
191	278	"	"	"
326	350	"	.125	fulflo louvered
350	390	"	2½x.125	milled slot

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No XX To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing 18' ft.

(10) WELL TESTS:

Was pump test made? Yes ☒ No ☐ If yes, by whom? EELCOINC

Yield: 1200 gal./min. with 101 ft. drawdown after 2 hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

Was electric log made of well? Yes ☒ No ☐ If yes, attach copy

(11) WELL LOG:

Total depth 410 ft. Depth of completed well 400 ft.

Formation: *Describe by color, character, size of material, and structure*

0	16	Hard pan & red clay
16	19	Loose course sand
19	29	Red clay & sand
29	53	Clay
53	57	Sand & clay stringers
57	64	Clay
64	69	Sandy clay stringers
69	100	Clay
100	105	Loose sand
105	125	Yellow clay
125	130	Course gravel & sand and shale
130	136	Yellow clay
136	143	Loose sand & layered shale
143	160	Hard yellow clay
160	182	Hard layer of shale
182	214	Hard yellow clay
214	221	Hard yellow clay with layer of hard shale
221	229	Loose sand and gravel
229	233	Hard yellow clay
233	242	Broken shale
242	259	Hard yellow clay
259	279	Loose sand & small gravel
279	312	Hard clay and shale
312	331	Hard sandy yellow shale
331	349	Sand gravel, layers of shale
349	354	Sandy blue clay
354	360	Sand, gravel and shale
360	370	Hard blue clay
370	390	Sand and gravel
390	410	Hard clay

Work started 12/2 19 75 Completed 12/9 19 75

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME E. E. LUHDORFF CO., INC.
(Person, firm, or corporation) *(Typed or printed)*

Address P. O. BOX 1326
WOODLAND, CALIFORNIA 95695

[SIGNED] (Well Driller)

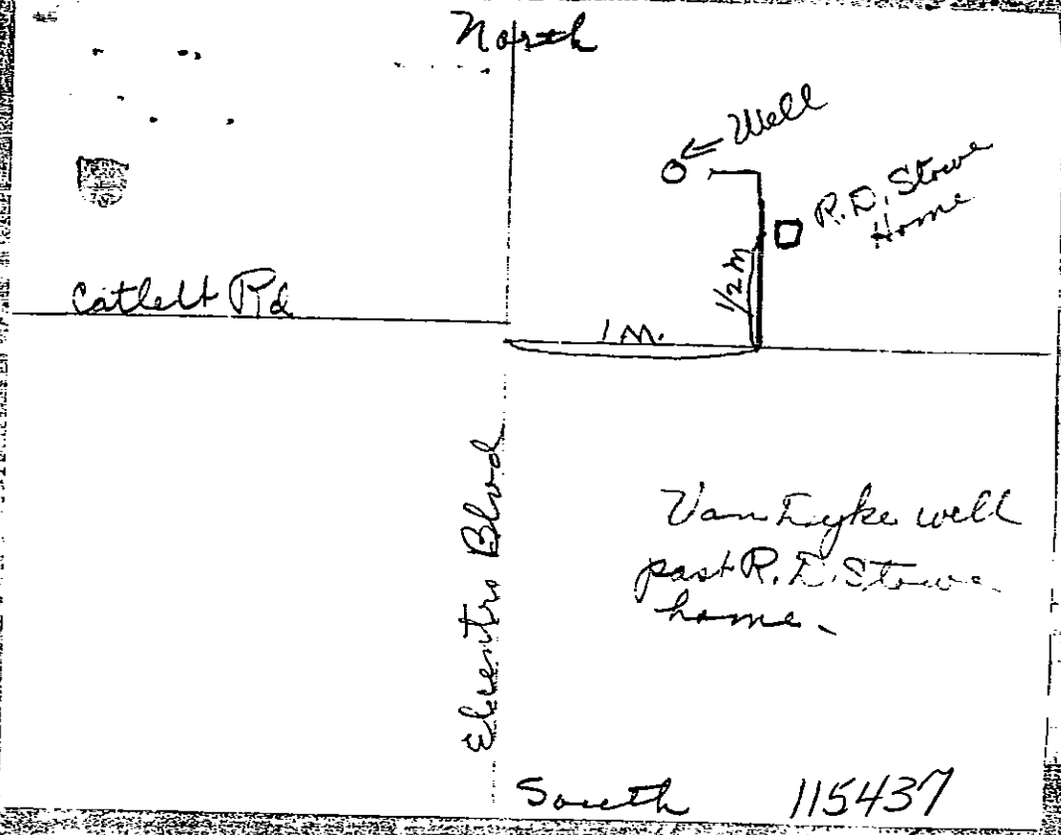
License No. 276625 Dated 1-9, 1976

SKETCH LOCATION OF WELL ON REVERSE SIDE

CONFIDENTIAL LOG
Water Code Sec. 13752

DWR 188 (REV. 9-68)

67139-750 8-72 30M TRIP ⓘT OSP



115437

RECEIVED
DIV. OF WATER RESOURCES
SACRAMENTO
1951 OCT 9 AM

51-831

USGS-CAL-T1
May 1948

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

No. 12/ AE - 3681

Other Nos.

WELL LOG

State California County Sutter Subarea Pleasant Grove

Owner

Location

Drilled by Kirchgater Address

Date 1947 Casing diam. 8" Land-surf. alt. 50

Source of data

(Enter type of well, perforations, yield, and drawdown at end of log)

Correlation	Material	Thickness (feet)	Depth (feet)
	Soil		1
	~~Adobe~~		~~2~~
	Hardpan		4
	~~Clay, yellow~~		~~17~~
	Clay, white		28
	~~Sandstone, soft~~		~~78~~
	Clay, yellow		114
	~~Sand and clay~~		~~119~~
	Clay		182
	~~Clay, hard and small gravel~~		~~200~~
	Clay, hard		275
	~~Coarse sand, small gravel and white clay~~		~~280~~
	Sand, fine		308
	~~Clay~~		~~310~~
	Sand and gravel, cemented		325
	~~Clay, blue~~		~~350~~
	Shale		372
	~~Shale, sand and blue clay~~		~~390~~
	Well began to sluff in from 360-390'		
	~~Water level 25'~~		

Record by Date Sheet of

DUPLICATE
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPO 51-832

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

Do Not Fill In 120

State Well No.
Other Well No. 12/4-5H
Region 5

(1) DRILLER: (person, firm, or corporation)
Name Frank P. Conley
Address 432 - Feather River Blvd, Marysville, Calif.

OWNE
Name
Address

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other 2"	☐

Equipment

Rotary	☐
Cable	☒
Dug Well 2"	☐
Other	☐

(3) CASING:
60 ft. of 12 in 10 lb./ga. casing 60 left in well
" " " " " " " "
" " (.34) " " " " "
" " " " " " " "
" " " " " " " "
Type and size of shoe or well ring 12" 3 X 3/8 1-035 05

(4) PERFORATIONS:
Type of perforator used burnt with acetylene
Perforated 155 ft. to 175 ft. 6 holes per 12 in.
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
Diameter of perforations 1/8 in., length 3 in.

(5) WATER LEVELS:
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 30 ft.
Standing level before perforating 30 ft.
Standing level after perforating 30 ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? No

(6) WELL PUMPING TEST:
Capacity gal./min. ft. draw down
Was well gravel packed? No
Were any strata sealed against pollution? Conc. drive - int. clay
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):
New well ☐ Reconditioning of well ☒
Deepening existing well ☐

(8) LOCATION OF WELL:
County Sutter
R. F. D. or Street No.
Catlett Rd. — 1 mile east of Pleasant Grove Rd.

(9) WELL LOG: Old well 215 ft
Total depth of well 380 Caved in to 160 ft.
Formation: Mention size of water gravel—

160	ft. to 215	ft.	sand
215	" 225	"	gray clay
225	" 270	"	blue decomposed granite
270	" 290	"	clay
290	" 300	"	fine shale
300	" 370	"	clay
370	" 380	"	sand

FOR OFFICIAL USE ONLY

Work started Nov. 24 19 , Completed Dec. 15 19 52
Date of Report Jan. 2 , 19 53

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
[SIGNED] Frank P. Conley
Well Driller
By Farmer Freeborn
License No. 105346 Classification C 57
Dated Jan 2, 19 53

46370 7-51 30M QUIK ① SPO

FINAL REPORT

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPOR

31-045 N CHECKED
Do Not Fill In

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES 108

State Well No. 12N/5E-34H1
Other Well No. 12N-5E-~~35~~ 34 H1
Region

(1) DRILLER: (person, firm, or corporation)

Name William Flynn
Address Box 26 Sutter, Calif

OWNER:

Name
Address

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

150 ft. of 16 in 3/16 lb./ga. casing 150 left in well
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "

Type and size of shoe or well ring 16" X 3/4" X 6"

(4) PERFORATIONS:

Type of perforator used Mills

Perforated 140 ft. to ~~148~~ ft. 16 holes per ft. per in.
" " 148 " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "
" " " " " " "

Diameter of perforations 1/2 in., length 2 in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 110 ft.
Standing level before perforating 48 ft.
Standing level after perforating 48 ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided?

(6) WELL PUMPING TEST:

Capacity 850 gal./min. 105 ft. draw down
Was well gravel packed? no
Were any strata sealed against pollution? no
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):

New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(8) LOCATION OF WELL:

County Placer
R. F. D. or Street No. 7 1/2 mi. east of Pacific Ave. on Catlett Rd. and 1/8mi. north of Catlett Rd. (Pacific Ave is 1 mi. east of East Nicolaus)

(9) WELL LOG:

Total depth of well 470 ft.

Formation: Mention size of water gravel—

0	ft. to	4	ft.	top soil
4	"	110	"	yellow clay
110	"	140	"	red clay
140	"	145	"	packed sand & gravel
145	"	233	"	yellow clay
233	"	274	"	cemented gravel
274	"	331	"	blue clay
331	"	352	"	lava ash
352	"	403	"	blue clay
403	"	408	"	hard sand
408	"	420	"	white clay
420	"	427	"	packed gravel
427	"	465	"	white clay
465	"	470	"	sand and gravel

CONFIDENTIAL
Section 7076.1, Water Code

RECEIVED

FOR OFFICIAL USE ONLY

Work started 4/23/54 19 , Completed 5/29/54 19
Date of Report 6/5/54 , 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] Wm F Flynn
Well Driller

By
License No. 97194 Classification S.C.57
Dated 6/5/54 , 19

46370 7-51 30M QUIN ① SPO

12N/5E-34K1

JUL 20 1967

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

890

Do Not Fill In

No. 9468

State Well No. 12N/5E-34K1

Other Well No. 12N/SE-34K1

(1) OWNER:

Name

Address

(2) LOCATION OF WELL:

County Placer Owner's number, if any

Township, Range, and Section 12N/5E-34K1

Distance from cities, roads, railroads, etc. 2½ Mi. east of Brewer Rd. on Pleasant Grove Rd.

(3) TYPE OF WORK *(check)*:

New Well [X] Deepening [ ] Reconditioning [ ] Destroying [ ]

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE *(check)*:

Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) EQUIPMENT:

Rotary [ ]
Cable [X]
Other [ ]

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE [X] DOUBLE [ ]

From ft.	To ft.	Diam.	Gage or Wall
0	100	10	10

If gravel packed

Diameter of Bore	From ft.	To ft.

Size of shoe or well ring: ½" X 6" X 10" Spun steel

Describe joint ark but welded

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen None

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes [ ] No [X] To what depth ft.

Were any strata sealed against pollution? Yes [ ] No [X] If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 89 ft.

Standing level before perforating, if known 75 ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Pump test made? Yes [ ] No [X] If yes, by whom?

gal./min. with ft. drawdown after hrs.

erature of water Was a chemical analysis made? Yes [ ] No [X]

Was electric log made of well? Yes [ ] No [X] If yes, attach copy

(11) WELL LOG:

Total depth 145 ft. Depth of completed well 145 ft.

Formation: *Describe by color, character, size of material, and structure*

0	to	1	top soil	ft.
1	"	3	hard pan	
3	"	22	red hard clay	
22	"	36	red silty clay	
36	"	62	yellow hard silty clay	
62	"	74	red tough clay	
74	"	78	yellow clay	
78	"	81	gravel & clay mix	W.B.
81	"	96	red silty clay	
96	"	104	red & yellow tough clay	
104	"	107	brown coarse cemented sand	W.B.
107	"	123	gray coarse tight sand	W.B.
123	"	138	Gray sand & small gravel	W.B.
138	"	145	tight med. & small gravel	W.B.

Plotted and Coded
As Well 12N/5E-34K80

FOR OFFICIAL USE ONLY

Work started May 29 19 67, Completed June 7, 19 67

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME LYLE W. CORNELIUS
Well Drilling Contractor
(Person, firm, or corporation) (Type or printed)

Address 1820 First Ave. GI 8-6410
~~Sacramento 18, Calif.~~

[SIGNED] Lyle W. Cornelius
(Well Driller)

License No. 142613 Dated June 10, 1967

SKETCH LOCATION OF WELL ON REVERSE SIDE

56391-950 10-65 50M TRIP ① △ OSP

Geologic Section C-C’

ORIGINAL
File with DWR

CONFIDENTAL LOG Water Code Sec. 7080

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Do Not Fill In

No. 9491

State Well No. 11N/3E-36P1

Other Well No. 11N/3E-36P1

(1) **OWNER:**

Name

Address

(2) **LOCATION OF WELL:**

County Sutter Owner's number, if any 483-7122

Township, Range, and Section T- R- S-

Distance from cities, roads, railroads, etc. 62' west of center Garden Highway & 100 ' north Rego Rd.

(3) **TYPE OF WORK** *(check):*

New Well [X] Deepening [ ] Reconditioning [ ] Destroying [ ]

If destruction, describe material and procedure in Item 11.

(4) **PROPOSED USE** *(check):*

Domestic [XX] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) **EQUIPMENT:**

Rotary [ ]
Cable [XX]
Other [ ]

(6) **CASING INSTALLED:**

STEEL: OTHER:
SINGLE [X] DOUBLE [ ]

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
minus 6'	157	8"	10			

If gravel packed

Size of shoe or well ring: 1/2" X 4" X 8" Size of plow steel

Describe joint Ark but welded

(7) **PERFORATIONS OR SCREEN:**

Type of perforation or name of screen none

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) **CONSTRUCTION:**

Was a surface sanitary seal provided? Yes [X] No [ ] To what depth 8 ft.

Were any strata sealed against pollution? Yes [ ] No [X] If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) **WATER LEVELS:**

Depth at which water was first found, if known 38 ft.

Standing level before perforating, if known 19 ft.

Standing level after perforating and developing ft.

(10) **WELL TESTS:**

Was pump test made? Yes [X] No [ ] If yes, by whom? Cornelius

Yield: 300 gal./min. with 11 ft. drawdown after 4 hrs.

Temperature of water Was a chemical analysis made? Yes [ ] No [X]

Was electric log made of well? Yes [ ] No [X] If yes, attach copy

(11) **WELL LOG:**

Total depth 171 ft. Depth of completed well 170 ft.

Formation: *Describe by color, character, size of material, and structure*

0' to 3 ft.	sandy top soil	
3 " 6'	fine sand	
6 " 19'	brown doby clay	
19 " 38'	blue silty clay	
38 " 40'	fine packed sand	W.B.
40 " 64'	blue doby clay	
64 " 70'	blue cemented sand	
70 " 83'	sand & small gravel	W.B.
83 " 126'	blue crumbly clay	
126 " 134'	blue stickey clay	
134 " 138'	blue packed sand	W.B.
138 " 143'	blue stickey clay	
143 " 148'	blue fine quick sand	W.B.
148 " 157'	blue tough sandy clay	
157 " 171'	dark sand & small gravel	W.B.
171 "	large gravel	W.B.

CONFIDENTAL LOG
Water Code Sec 7080

Work started 6 / 20 1969 , Completed 6 / 26 1969

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME LYLE W. CORNELIUS
Well Drilling Contractor
1820 First Ave. GI 8-6410
(Person, firm, or corporation) (Typed or printed)
Sacramento 18, Calif.

Address

[SIGNED] Lyle W. Cornelius
(Well Driller)

License No. 142613 Dated June 27, 1969

SKETCH LOCATION OF WELL ON REVERSE SIDE

56391-950 10-65 50M TRIP ① △ OSP

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

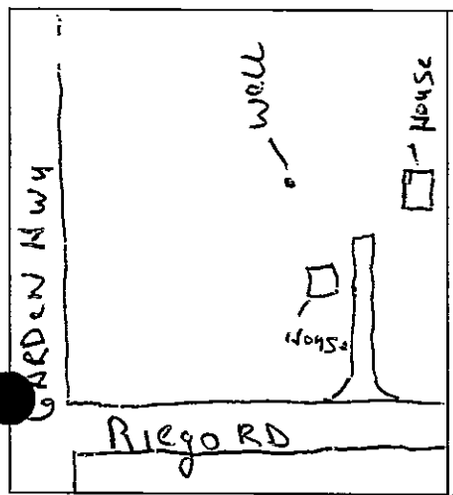
Do not fill in
No. 280943

Notice of Intent No. 246643
Local Permit No. or Date 35-030-015

State Well No.
Other Well No. 11N03E36R

(1)
A
C

(2) LOCATION OF WELL (See instructions):
County SUTTER Owner's Well Number
Well address if different from above 5341 W. Riego RD
Township 11N Range 4E Section 36
Distance from cities, roads, railroads, fences, etc.



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☒
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐
(Describe)

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☒ Size
Diameter of bore
Packed from ft. to ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	145	8"	.156

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 21 ft.
Were strata sealed against pollution? Yes ☐ No ☒ Interval ft.
Method of sealing Bent Seal

(10) WATER LEVELS:
Depth of first water, if known ft.
Standing level after well completion 15' ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft. At end of test ft.
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☐ If yes, by whom?
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 165 ft. Completed depth ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	3	TOP SOIL
3	15	BROWN STICKY CLAY
15	17	BLUE CLAY
17	28	BROWN CLAY
28	29	SAND W.B.
29	64	BROWN CLAY
64	65	SAND
65	99	BROWN CLAY
99	141	BLUE CLAY
141	143	SAND
143	158	BLUE CLAY
158	165	SAND & GRAVEL

Work started 1-10 1990 Completed 1-23 1990

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed (Well Driller)
NAME G. CAKIN Well Drilling (Person, firm, or corporation) (Typed or printed)
Address 10550 LOWELL ST.
City ELVERTA ZIP 95626
License No. 374391 Date of this report 1-24-90

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. _____
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 481

[redacted] LOCATION NOT CHECKED

Do Not Fill In
No. 32889

State Well No. _____
Other Well No. 11/4 32R3

(1) OWNER:
Name _____
Address _____

(2) LOCATION OF WELL:
County Sutter Owner's number, if any—
R. F. D. or Street No.
550' W of Marysville Rd.
1500' N of Base Line Road

(3) TYPE OF WORK (*check*):
New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:
Rotary [ ]
Cable [X]
Dug Well [ ]

(6) CASING INSTALLED:
SINGLE [X] DOUBLE [ ]

From ft.	to ft.	Diam.	Gage or Wall
0	76	12	12

Type and size of shoe or well ring 1/2x4x12
Describe joint Welded

If gravel packed

Diameter of Bore	from ft.	to ft.

Size of gravel:

(7) PERFORATIONS:
Type of perforator used
Size of perforations in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? [X] Yes [ ] No To what depth 76 ft.
Were any strata sealed against pollution? [ ] Yes [ ] No If yes, note depth of strata
From 0 ft. to 76 ft.
Method of Sealing Welded

(9) WATER LEVELS:
Depth at which water was first found 46 ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? [ ] Yes [ ] No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [ ] No
Was electric log made of well? [ ] Yes [ ] No

(11) WELL LOG:
Total depth 187 ft. Depth of completed well 185 ft.
Formation: *Describe by color, character, size of material, and structure.*

0'	3'	Top Soil
3	10	Hardpan & Sand
10	23	Clay, gray
23	32	Clay, brown
32	64	Clay, gray
64	70	Sediment, gray
70	74	Sand
74	150	Clay, gray
150	165	Sandy
165	175	Sediment, blue
175	187	Sand, coarse

CONFIDENTIAL
Water Code
Section 7076.1.

FOR OFFICIAL USE ONLY

Work started April 19 56 Completed — 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME E. C. Keables, Well Drilling
(Person, firm, or corporation) (*Typed or printed*)
Address 1700 Glenrose Ave.
N. Sacramento 15, Calif.

[SIGNED] E C Keables
Well Driller
License No. 157234 Dated April, 1956

95689 3-54 50M QUIN ⑤ SPO

DWR FORM NO. 246 (REV. 3-54)

DWR Log No: 51-095 MD 11N/4E-33J1

REGION

COUNTY Sutter

NEAR State - California

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

BASIN

DWR NO. ; B & M

OTHER Nos. 32-16
11N 3EJ1
11/4E-33 51

LOCATION

SUBAREA Vernon

OWNER ADDRESS

DRILLED BY Thomas J. Fulton ADDRESS Casing diam. 16, 14, and 12"

DRILLING METHOD GRAVEL PACKED DATE COMPLETED Sept. 1947

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION Owner

(Enter type of well, perforations, yield, and drawdown at end of log)

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
13		Soft top soil		
16		Brown sand		
32		Gray with pieces brown clay		
39		Soft brown clay		
40		Pea gravel		
71		Hard dark brown clay		
91		Soft brown clay		
93		Black burnt sand		
96		Soft gray sand		
101		Hard gray sand		
139		Soft brown clay		
143		Hard black sand		
145		Black sand		
156		Hard gray clay		
163		Blue clay		
164		Gray sand		
175		Hard blue clay		
181		Soft gray sand		
183		Hard gray sand		
196		Cemented sand and gravel		
199		Hard yellow clay		
201		Gray sand		
219		Soft blue clay		
221		Black sand		
243		Soft blue clay		
247		Hard blue clay		
251		Soft blue clay		
252		Blue sand		
271		Hard blue clay		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF

FORM 263. 47655 7-51 5M ② SPC

DWR Log No: 51-095 MD 11N/4E-33J1

REGION

COUNTY

NEAR

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

WELL LOG

BASIN

DWR NO. : B & M

OTHER NOS. 32-16
114 33J1
11/4E-33 5/

LOCATION

OWNER ADDRESS

DRILLED BY ADDRESS

DRILLING METHOD GRAVEL PACKED DATE COMPLETED

SIZE OF CASING DEPTH STRUCK WATER AT

PERFORATIONS SIZE No.

WATER LEVEL BEFORE PERFORATING AFTER

TEST DATA: DISCHARGE G. P. M. DRAWDOWN FT. HOURS RUN

OTHER DATA AVAILABLE: WATER LEVEL RECORD ANALYSIS

SURFACE ELEV. DATUM SOURCE OF INFORMATION

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICK-NESS	SP. YIELD %
283		Hard blue shale		
285		Hard blue sand and caving small pieces of clay		
		Perforated 82-102, 148-168'		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE SHEET 1 OF

FORM 263. 47865 7-51 5M ® SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES 305

DWR Log No: 51-099
LOCATION ~~NOT~~ CHECKED
Do Not Fill In
State Well No. 11N/4E-34J1
Other Well No. 11N/4E-~~6~~ 34J1
Region

(1) DRILLER: (person, firm, or corporation)
Name E. C. Keables
Address 1700 Glenrose Ave.
Sacramento 15, Calif.

OWNER:
Name
Address

(2) Proposed Use (*Check*)

				Equipment	
Domestic	☐	Industrial	☐	Rotary	☐
Irrigation	☒	Test Well	☐	Cable	☒
Municipal	☐	Other	☐	Dug Well	☐
				Other	☐

(3) CASING:
100 ft. of 14 in. 12 lb./ga. casing 100 left in well
" " " " " "
50' 12" 12G Liner- perf. 30' " " "
40' 10" 12G Liner- perf 16' " " "
" " " " " "
Type and size of shoe or well ring 14"

(4) PERFORATIONS:
Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 24 ft.
Standing level before perforating ft.
Standing level after perforating ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? Yes

(6) WELL PUMPING TEST:
Capacity gal./min. ft. draw down
Was well gravel packed?
ere any strata sealed against pollution?
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*)**:**
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(8) LOCATION OF WELL ~~LOCATION~~ ~~QUESTIONABLE~~
County Sutter
R. F. D. or Street No.
2376 Ft. N. Riego Rd.
3840' W of Western Pacific RR

(9) WELL LOG:
Total depth of well 275 Ft. ft.
Formation: Mention size of water gravel—

1	ft. to	2	ft.	Top Soil
2	"	3	"	Hardpan
3	"	40	"	Clay & Granite Sand
40	"	90	"	Clay
90	"	98	"	Sand, hard
98	"	150	"	Clay
150	"	156	"	Sand, hard
156	"	165	"	Clay
165	"	171	"	Sand, soft
171	"	176	"	Clay
176	"	192	"	Sand
192	"	229	"	Clay
229	"	250	"	Sand
250	"	255	"	Clay
255	"	265	"	Sand, hard
265	"	275	"	Sand, soft
~~275~~	"		"	

FOR OFFICIAL USE ONLY

Work started Mar. 30, 1953 Completed 4/13/53 19
Date of Report April 30, 1953 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] E. C. Keables
Well Driller
By Owner
License No. 119760 Classification C-57
Dated June 9, 1954, 19

45270 7-51 30M QUIN ① SPO

~~LOCATION NOT CHECKED~~

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No.____
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA 683

Do Not Fill In
No. 45210 35J1
State Well No. 11N/4E-
Other Well No. 11N/4E-~~35~~ 35R

(1) OWNER:
Name
Address

(2) LOCATION OF WELL:
County Sutter Owner's number, if any—
R. F. D. or Street No. (Please Provide)
342' W Old Marysville Rd.
474' N. Riego Road

(3) TYPE OF WORK (*check*):
New well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

(5) EQUIPMENT:
Rotary [ ]
Cable [X]
Dug Well [ ]

(6) CASING INSTALLED:
SINGLE [X] DOUBLE [ ]

From ft.	to ft.	Diam.	Gage or Wall
1	20	12	12

Type and size of shoe or well ring none
Describe joint

If gravel packed

Diameter of Bore	from ft.	to ft.

Size of gravel:

(7) PERFORATIONS:
Type of perforator used
Size of perforations in., length, by in.

From ft.	to ft.	Perf. per row	Rows per ft.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? [X] Yes [ ] No To what depth 20 ft.
Were any strata sealed against pollution? [ ] Yes [ ] No If yes, note depth of strata

From ft.	to ft.

Method of Sealing

(9) WATER LEVELS:
Depth at which water was first found 54 ft.
Standing level before perforating ft.
Standing level after perforating ft.

(10) WELL TESTS:
Was a pump test made? [ ] Yes [ ] No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
Temperature of water Was a chemical analysis made? [ ] Yes [ ] No
Was electric log made of well? [ ] Yes [ ] No

(11) WELL LOG:
Total depth 133 ft. Depth of completed well 133 ft.
Formation: *Describe by color, character, size of material, and structure.*

0 ft. to	3 ft.	Top Soil
3	50	Clay
50	52	Sand
52	128	Clay
128	133	Sand

official no. 11N/4E-35J1
plots in 35 BJ
plot .1 mi W of P.G. Rd., 26 mi N of Riego Rd

CONFIDENTIAL
Section 7076.1, Water Code

FOR OFFICIAL USE ONLY

Work started 6/2/58 19 , Completed 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME E. C. Keables, Well Drilling
(Person, firm, or corporation) (Typed or printed)
Address 1700 Glenrose Ave., N. Sacto., 15 California

[SIGNED] E. C. Keables
Well Driller

License No. 157234 Dated Jan. , 19 59

95569 3-54 5CM QU:N ⊗ SPO

DWR FORM NO. 246 (REV. 3-54)

DUPLICATE
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

DWR Log No: 51-1991
Do Not Fill In

State Well No. .....
Other Well No. 11/-3W2L
Region .....

9168

(1) DRILLER: (person, firm, or corporation) 101
Name E. C. Keables
Address 1700 Glenrose Ave.,
Sacramento, Calif.

OWNER
Name
Address

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other 2	☐

Equipment

Rotary	☐
Cable	☒
Dug Well 2	☐
Other	☐

(3) CASING: 1-X

88 ft. of 14 in. 12 ga. casing 88 ft. left in well
" " (12") " " " " "
" " " " " " "
34 Ft. Liner from 138' to 172' " " "
" " " " " " "
Type and size of shoe or well ring 14" 1-X

(4) PERFORATIONS: 0
Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:
Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.
Depth at which water was first found 34 ft.
Standing level before perforating ft.
Standing level after perforating ft.
Note your observation of any change in water level while drilling
Was a surface sanitary seal provided? Yes 1-3

(6) WELL PUMPING TEST:
Capacity gal./min. ft. draw down
Was well gravel packed? 2
Were any strata sealed against pollution? 2
Temperature Was a chemical analysis made? Attach copy
If abandoned was well capped?

(7) TYPE OF WORK (*check*):
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(8) LOCATION OF WELL:
County Sutter
R. F. D. or Street No.
2376' N Reigo Rd.
1200' W of W.P. Railroad

(9) WELL LOG:
Total depth of well 290 ft.
Formation: Mention size of water gravel—

	ft. to			
1	"	3	"	Top Soil
3	"	21	"	Hardpan
21	"	60	"	Clay
60	"	85	"	Sand
85	"	99	"	Clay
99	"	106	"	Sand
106	"	120	"	Clay
120	"	125	"	Sand
125	"	150	"	Clay
150	"	172	"	Sand
172	"	275	"	Clay
275	"	290	"	Sand, Coarse

FOR OFFICIAL USE ONLY

Work started 4/5/51 19, Completed 4-[illegible]/51 19
Date of Report July 1952, 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] E. C. Keables
Well Driller
By E C Keables
License No. 96347 Classification C-57
Dated ....., 19

46370 7-51 30M QUIN ⓓ SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

31-010

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SHEET 1

11N 5E 26L2

Do Not Fill In
State Well No. 11N/5E-26L2
Other Well No.
Region 5

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Plaer
21

(1) **Driller:**
Name W. J. McCrew
Address 504 W. El Camino
North Sacramento, California
License No. 17425 Classification A

Ow
Na
Ad

(2) **Proposed use or uses** *(check)*:
Domestic ☐ Municipal ☐
Irrigation ☐ Industrial ☐
Domestic and Irrigation ☐ Test well ☐
Other Stock Well

(3) **Equipment used** *(check)*:
Rotary ☐
Cable ☒
Dug well ☐
Other

(4) **Type of work** *(check)*:
New well ☒ Reconditioning of well ☐
Deepening existing well ☐

(5) **Well log:**
Total depth of well 100' ft.

Give details of formations penetrated, such as silt, peat, muck, sand, gravel, clay, shale, sandstone, hardpan, rock. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard, brittle).

Depth From Ground Surface					
0 ft.	to 5 ft.	Top Soil	Red		
5 "	" 9 "	Hard Pan	Yellow		
9 "	" 12 "	Sand	Grey	Fine	
12 "	" 50 "	Clay Sandy	Yellow	Soft	
50 "	" 95 "	Clay	White	Packed	
95 "	" 100 "	Sand	Brown	Soft	

Plotted and Coded as well 11N 5E 26L2

FOR OFFICIAL USE ONLY

If additional space is required, continue on DWR Form No. 246—Supplement, and attach to respective report copies.

(6) **Casing left in well:**

LENGTH FT.	DIAMETER INCHES	SINGLE, DOUBLE, WELDED, OTHER	LBS. PER FOOT OR GAGE OF CASING	SEATING BELOW GROUND SURFACE, FT.
4	6	Single	12 ga	3

Type and size of shoe or well ring None Welded joints—☒ Yes ☐ No

ORIGINAL
File Original, Duplicate and Triplicate with the
DIVISION OF WATER RESOURCES
P. O. BOX 1079
SACRAMENTO 5, CALIFORNIA

31-016

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES 3/4

11N/5E-32G1

Do Not Fill In

LOCATION NOT CHECKED

State Well No.

Other Well No. 11N-5E-32

Region G1

(1) DRILLER: (person, firm, or corporation)

Name E. C. Keables

Address 1700 Glenrose Ave.
Sacramento 15, Calif.

OWNER:

(Well #2) '53

Name

Address

(2) Proposed Use (*Check*)

Domestic	☐	Industrial	☐
Irrigation	☒	Test Well	☐
Municipal	☐	Other	☐

Equipment

Rotary	☐
Cable	☒
Dug Well	☐
Other	☐

(3) CASING:

224 ft. of 14 in 12 lb./ga. casing 224 left in well

" " " " " "

44', 12" 12 G. Liner " " " " "

132' 10" 12 G. Liner " " " " "

" " " " " "

Type and size of shoe or well ring 14"

(4) PERFORATIONS:

Type of perforator used

Perforated	ft. to	ft.	holes per	in.
"	"	"	" "	"
"	"	"	" "	"
"	Plotted and Coded		" "	"
"	As Well 11N/5E-32G00		" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"
"	"	"	" "	"

Diameter of perforations in., length in.

(5) WATER LEVELS:

Was electric log made of well? ☐ Yes ☒ No If yes, attach copy.

Depth at which water was first found 36 ft.

Standing level before perforating ft.

Standing level after perforating ft.

Note your observation of any change in water level while drilling

Was a surface sanitary seal provided? Yes

(6) WELL PUMPING TEST:

Capacity gal./min. ft. draw down

Was well gravel packed?

re any strata sealed against pollution?

Temperature Was a chemical analysis made? Attach copy

If abandoned was well capped?

(7) TYPE OF WORK (*check*):

New well ☒ Reconditioning of well ☐

Deepening existing well ☐

(8) LOCATION OF WELL:

County Sutter

R. F. D. or Street No.

2670' N. Base Line Rd.
3660' E of Brewer Rd.

(9) WELL LOG:

Total depth of well 614 Ft. ft.

Formation: Mention size of water gravel—

0	ft. to	3	ft.	Top Soil
3	"	5	"	Hardpan & Sand
5	"	80	"	Clay
80	"	90	"	Sand
90	"	100	"	Clay
100	"	110	"	Sand, cemented
110	"	157	"	Clay
157	"	159	"	Sandy
159	"	212	"	Clay
212	"	216	"	Sand, hard
216	"	222	"	Sand (loose)
222	"	250	"	Clay
250	"	255	"	Sand
255	"	372	"	Clay
372	"	376	"	Sand
376	"	385	"	Clay
385	"	393	"	Sand
393	"	400	"	Clay
400	"	410	"	Sand
410	"	490	"	Clay
490	"	528	"	Sand
528	"	570	"	Clay
570	"	590	"	Sand
590	"	600	"	Clay
600	"	614	"	Sand, blue (loose)

COPIED FROM Section 7076.1, Water Code

RECEIVED

JAN 11 1954

WATER RESOURCES

FOR OFFICIAL USE ONLY

Work started Oct. 16 19 53. Completed 12/14/53 19

Date of Report Dec. 30, 1953 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

[SIGNED] E. C. Keables
Well Driller

By Owner

License No. 119760 Classification C-57

Dated June 9, 1954 19

46370 7-51 30M QUIN ① SPO

ORIGINAL
File Original, Duplicate and Triplicate with the
REGIONAL WATER POLLUTION
CONTROL BOARD No. 5
(Insert appropriate number)

WATER WELL DRILLERS REPORT
(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

106

LOCATION [illegible] CHECKED
No 1994
State Well No. 11N/5E-34L1
Other Well No. 11N/5E-34L1

(2) LOCATION OF WELL:

County Placer Owner's number, if any—

R. F. D. or Street No.

1500' N. of Base Line Rd.
Sec. 33, T 11 N, R-5 E
4½ miles E of Rio[illegible]

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:

SINGLE ☒ DOUBLE ☐

From	ft. to	ft.	Diam.	Gage or Wall
1½ Surface	139½	14"	12	"
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"

Type and size of shoe or well ring 14" 4 X 5/8

Describe joint Buttweld

If gravel packed

Diameter of Bore	from ft.	to ft.
	"	"
	"	"
	"	"
	"	"
	"	"

Size of gravel:

(7) PERFORATIONS:

Type of perforator used

Size of perforations in., length, by in.

From	ft. to	ft.	Perf. per row	Rows per ft.
"	"	"	" " "	" " "
"	"	"	" " "	" " "
"	"	"	" " "	" " "
"	"	"	" " "	" " "

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.

Were any strata sealed against pollution? ☐ Yes ☒ No If yes, note depth of strata

From	ft. to	ft.
"	"	"

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found 60 ft.
[illegible]ing level before perforating 65 ft.
[illegible]g level after perforating ft.

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. draw down after hrs.

Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:

Total depth 320 ft. Depth of completed well ft.

Formations: *Describe by color, character, size of material, and structure.*

0	ft. to 1	ft.	top soil
1	" 5	"	hard pan
5	" 20	"	granulated formation
20	" 30	"	clay
30	" 35	"	coarse sand
35	" 60	"	clay
60	" 65	"	sandy – 1st water
65	" 70	"	clay
70	" 80	"	soft sandy
80	" 110	"	clay
110	" 120	"	sandy clay
120	" 185	"	hard clay
185	" 195	"	soft
195	" 215	"	clay
215	" 225	"	light sand
225	" 250	"	hard clay
250	" 265	"	sand
265	" 275	"	clay
275	" 297	"	coarse sand
297	" 310	"	red clay
310	" 320	"	black sand

Plotted and Coded
As Well 11N, 5E 34L80

FOR OFFICIAL USE ONLY

Work started July 7 19 54. Completed July 13 19 54

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Frank P. Conley
(Person, firm, or corporation) (Typed or printed)

Address 432 Feather River Blvd
Marysville, Calif

[SIGNED] Frank P. Conley
Well Driller

License No. 105346 Dated , 19

95689 3-54 2M QUIN ② SPO

DWR FORM NO. 246 (REV. 3-54)

Appendix E: Levee Geologic Sections

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX E
Levee Geologic Sections

December 2021

Evaluation of Potential Groundwater Impacts Due to Proposed Construction for Natomas Levee Improvement Program

prepared for:

Sacramento Area Flood Control Agency
(SAFCA)

prepared by:

Luhdorff & Scalmanini,
Consulting Engineers

May 4, 2009

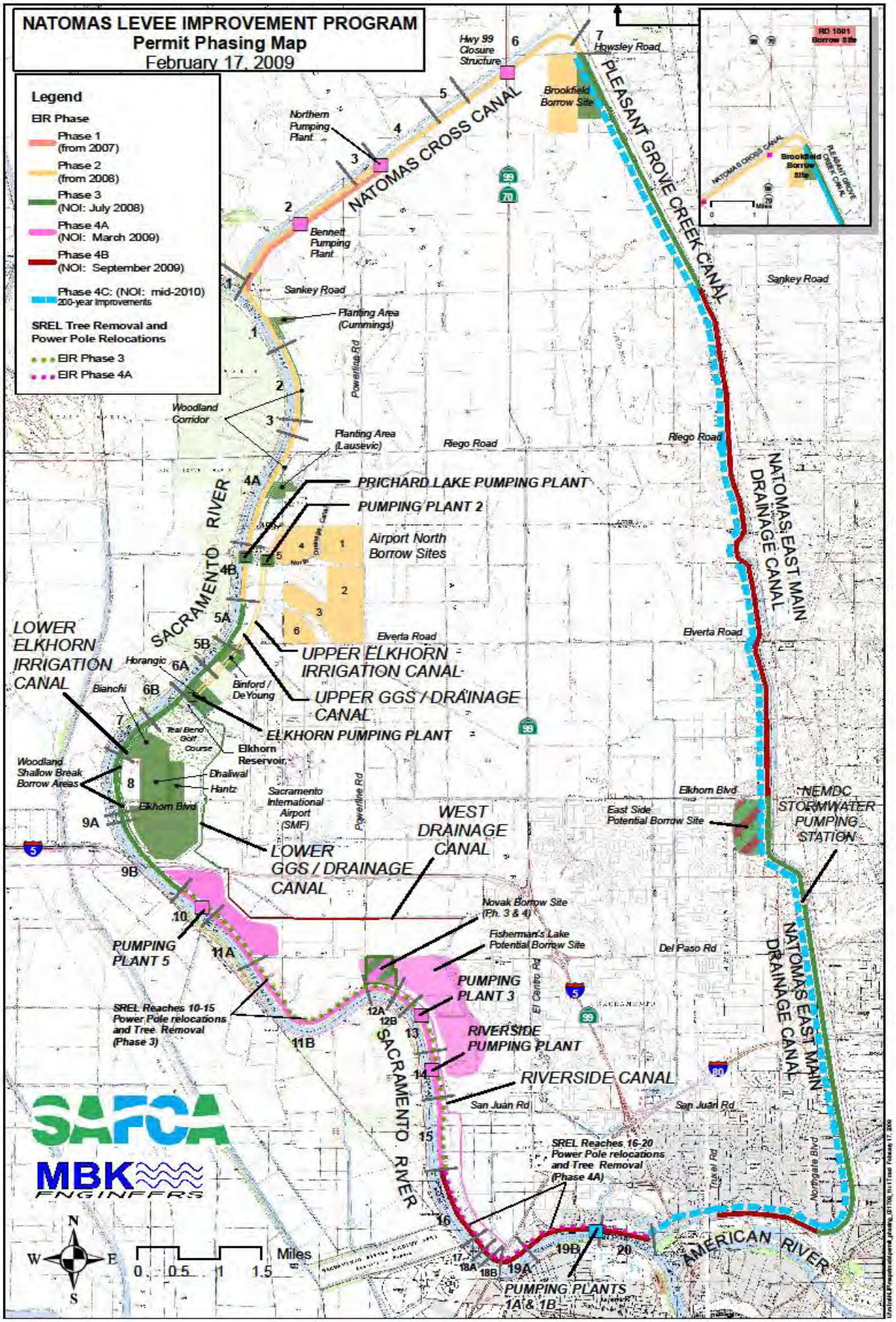
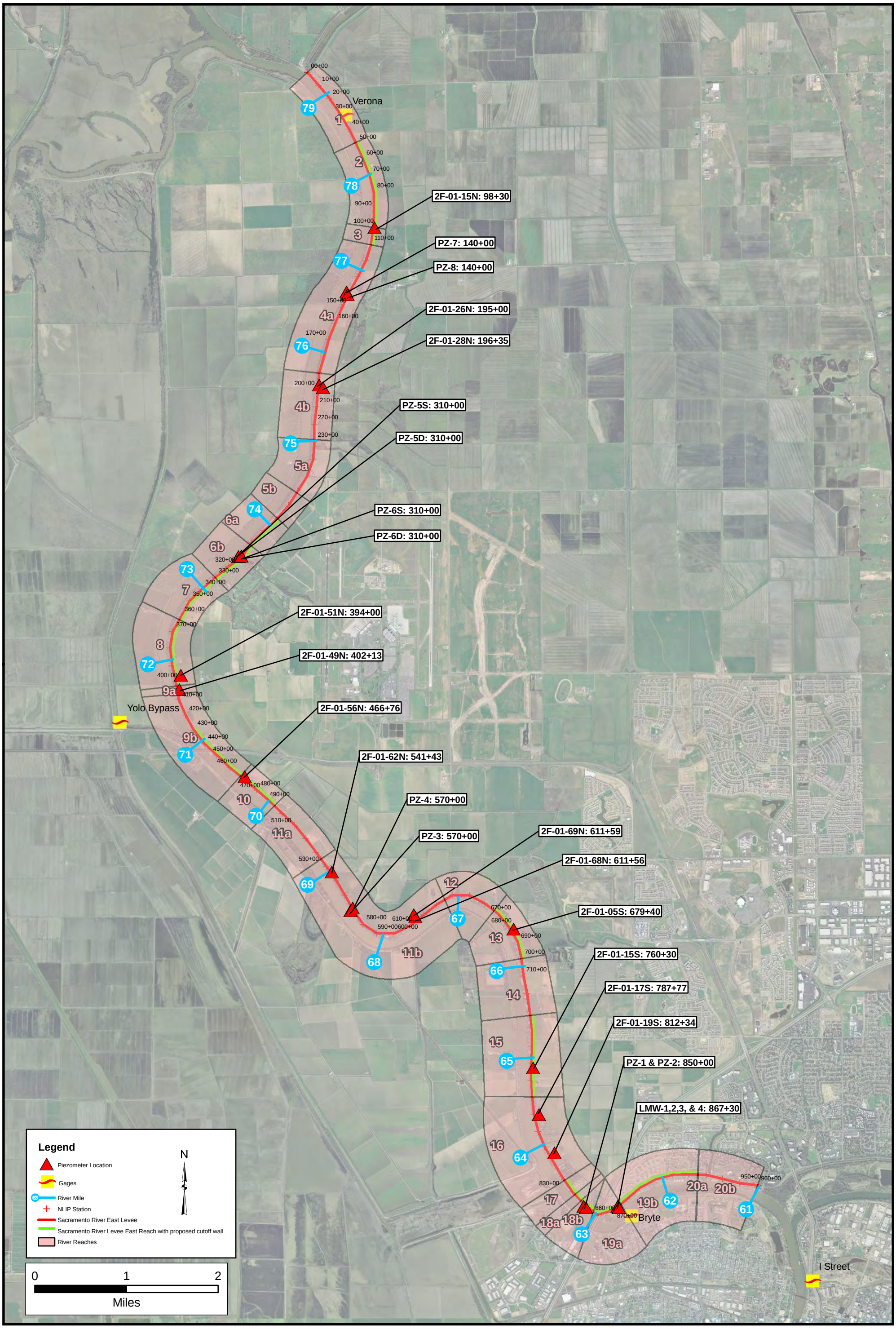


Figure 1-1
Proposed SAFCA Construction Locations for Natomas Levee Improvement Program



FILE: \public\SAFCA\GIS\Wells and Levee Location map.mxd

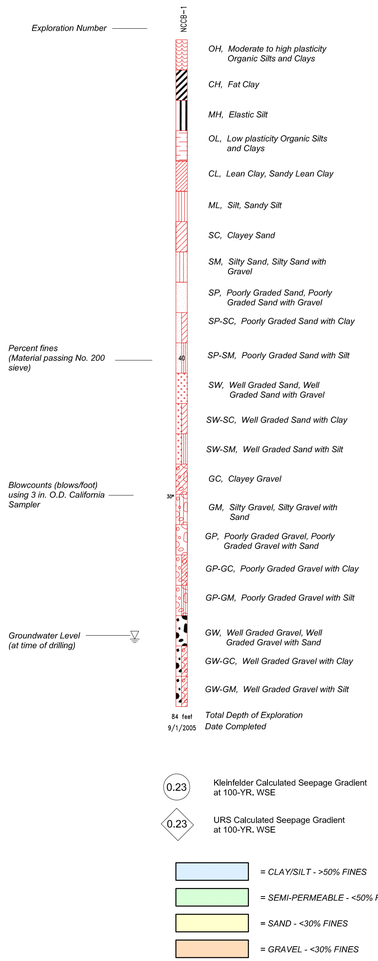
DATE: 1/30/2008 4:01:06 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

Figure 3-1
Piezometer Locations Along Sacramento River East Levee in Natomas Basin

SUBSURFACE PROFILE
SACRAMENTO RIVER EAST LEVEE

LOG LEGEND



Notes:

1. Base drawings for these levee profiles, obtained in August 2005 from the Sacramento District U.S. Army Corps of Engineers (USACE) and used with their permission, include stick logs of previous explorations, a levee crown profile, a landside levee toe profile, notes regarding levee performance and completed levee improvements, and elevation scale based on the 1929 National Geodetic Vertical Datum (NGVD, 1929).

2. Logs of the following explorations were added to the USACE base drawings: Kleinfelder 2006 borings (SRE-06-XX); Kleinfelder 2005 borings (SRB-XX); Kleinfelder 2003/2004 Borings S-03-1, S-03-2, S-03-3, S-03-4.

3. Locations of explorations shown are approximate. See Plate 2A through 2E for approximate plan locations of explorations.

4. The log legend shown applies to Kleinfelder 2005 borings (SRB-XX) and Kleinfelder 2006 borings (SRE-06-XX). Caution is advised in using the legend for interpretation of other explorations.

5. Logs represent general soil conditions observed at the point of exploration on the date indicated. Refer to Kleinfelder's 2005 report and Kleinfelder's 2006 report for more detail on the Kleinfelder 2005 borings (SRB-XX) and 2006 borings (SRE-06-XX).

6. Lines separating strata on logs represent approximate boundaries only. Actual transitions may be gradual.

7. No warranty is provided as to the continuity of soil conditions between individual sample locations.

8. Approximate top of boring elevations for Kleinfelder 2006 borings (SRE-06-XX) were obtained using GPS equipment survey; Kleinfelder 2005 borings (SRB-XX) were estimated using topographic data obtained by USACE 1997.

9. The 1/100 AEP and 1/200 AEP water surface profiles shown were provided by MBK Engineerson August 18, 2006. See report for an explanation of these profiles and conditions.

10. Details regarding completed levee improvements have been added to those already on the USACE levee profile base drawings and were obtained from the USACE. Extents of completed levee improvements shown are approximate and are the same as indicated on the USACE profiles. Refer to USACE as-built drawings for actual extents.

KLEINFELDER

Drawn By: D. ROSS
Project No.: 72834AASRN
Date: 09/24/2007
Filename: 72834_P1.dwg

SACRAMENTO RIVER EAST LEVEE
Basis of Design Report
Sacramento River East Levee Reaches 1 through 4B
Natomas Basin Evaluation
Sacramento and Sutter Counties, California

PLATE
3A

EXISTING STABILITY BERM

CUTOFF WALL TO BE CONSTRUCTED AS PART OF NATOMAS CROSS CANAL PROJECT

REACH 1
NONE

REACH 2
CUTOFF WALL TO ELEVATION -25 (65 FEET DEEP) OR 100-FOOT-WIDE SEEPAGE BERM

REACH 3
CUTOFF WALL TO ELEVATION -25 (65 FEET DEEP) OR 100-FOOT-WIDE SEEPAGE BERM

REACH 4A
DSM WALL TO ELEVATION -70 (110 FEET DEEP) OR 100-FOOT-WIDE SEEPAGE BERM OR RELIEF WELL 95 FEET DEEP (100 FOOT SPACING)

Natomas Cross Canal

EXISTING STABILITY BERM (TYP.)

Seepage Observed

LEVEE TOP ELEVATION (TYP.)

GROUND SURFACE ELEVATION NEAR LANDSIDE LEVEE TOE (TYP.)

Seepage Observed

RIEGO ROAD (2.36)

LEVEE MILES

1/200 AEP WATER SURFACE (200-YR WSE)

1/100 AEP WATER SURFACE (100-YR WSE)

ELEVATION, FEET

STATIONING, FEET

LEGEND

= CLAY/SILT - >50% FINES

= SEMI-PERMEABLE - <50% FINES

= SAND - <30% FINES

= GRAVEL - <30% FINES

URS 071000-168+00C

NOTE: SOME STICK LOGS HAVE BEEN MOVED IN ORDER FOR ALL DATA TO BE READABLE. REFER TO THE BORING LOCATION MAPS FOR ACCURATE STATIONING OF THESE EXPLORATIONS.

KLEINFELDER

Drawn By: D. ROSS
Project No.: 72834AASRN
Date: 09/24/2007
Filename: 72834_p1.dwg

SACRAMENTO RIVER EAST LEVEE PROFILE
Basis of Design Report
Sacramento River East Levee Reaches 1 through 4B
Natomas Basin Evaluation
Sacramento and Sutter Counties, California

PLATE 3B

EXISTING CANAL

REACH 4A
DSM WALL TO ELEVATION -70 (110 FEET DEEP)
OR 100-FOOT-WIDE SEEPAGE BERM OR
RELIEF WELL 95 FEET DEEP (100 FEET SPACING)

REACH 4B
DSM WALL TO ELEVATION -70 (110 FEET DEEP) OR
100-FOOT-WIDE SEEPAGE BERM OR RELIEF WELL
95 FEET DEEP (100 FEET SPACING)

REACH 4C
DSM WALL TO ELEVATION -70
(110 FEET DEEP) OR 300-FOOT-WIDE
SEEPAGE BERM OR RELIEF WELL
95 FEET DEEP (100 FEET SPACING)

REACH 5A
CUTOFF WALL TO ELEVATION -30 (70 FEET DEEP)
OR 100-FOOT-WIDE SEEPAGE BERM

REACH 5B
CUTOFF WALL TO ELEVATION -30 (70 FEET DEEP)
OR 100-FOOT-WIDE SEEPAGE BERM

REACH 6
DSM WALL TO ELEVATION -70
(110 FEET DEEP) OR 300-FOOT-WIDE
SEEPAGE BERM OR RELIEF WELL
70 FEET DEEP (100 FEET SPACING)

RD 1000
PP #2
(3.77)

Landside Sloughing and
Seepage Boils in 1997

Landside Sloughing
1987

ELVERTA
ROAD
(4.9)

ELKHORN RESERVOIRS (5.74)

1/200 AEP
WATER SURFACE
(26.0 WSE)

1/100 AEP
WATER SURFACE
(10.0 WSE)

ELEVATION, FEET

STATIONING, FEET

URS 071000-168+00C

LEGEND

= CLAY/SILT - >50% FINES

= SEMI-PERMEABLE - <50% FINES

= SAND - <30% FINES

= GRAVEL - <30% FINES

NOTE: SOME STICK LOGS HAVE BEEN MOVED IN ORDER FOR ALL DATA TO BE READABLE. REFER TO THE BORING LOCATION MAPS FOR ACCURATE STATIONING OF THESE EXPLORATIONS.

KLEINFELDER

Drawn By: D. ROSS
Project No.: 72834AASRN
Date: 09/24/2007
Filename: 72834_p1.dwg

SACRAMENTO RIVER EAST LEVEE PROFILE
Basis of Design Report
Sacramento River East Levee Reaches 1 through 4B
Natomas Basin Evaluation
Sacramento and Sutter Counties, California

PLATE
3C

Appendix F: Assessment of Assessment of Principal Aquifers

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX F
Assessment of Principal Aquifers

December 2021

APPENDIX F – ASSESSMENT OF PRINCIPAL AQUIFERS

This section provides a detailed hydrogeologic assessment of potential principal aquifers. It provides both historic definition of aquifers and current information to assess the number of principal aquifers.

The definition of principal aquifers must be supported by the geologic conditions, differences in groundwater levels, and water quality. The following sections provide a detailed discussion of aquifer conditions to demonstrate that the aquifers within the North American Subbasin can be considered to be one principal aquifer. Definitions of principal aquifers in adjacent subbasins are also included.

Historic Definition of Aquifers

The geologic units described above were grouped and separated into two aquifers, an Upper and Lower aquifer, by DWR for the North American Conjunctive Use Program (1997). "The division between the two aquifers is inexact, due to the difficulty in accurately determining the formation contacts". Figures 4-9 through 4-11 in Section 4.9 of the GSP show the extent of the principal aquifers on the geologic sections.

The Upper aquifer was defined as the upper 200 to 300 feet of the aquifer system. It includes the Quaternary Alluvium, Modesto, Riverbank, and Laguna Formations and consists of generally thin and laterally discontinuous sands and gravels separated by thick sequences of clay. Groundwater in the Upper aquifer occurs under generally unconfined conditions. It should be noted on the geologic sections that portions of the Mehrten Formation in the eastern portion of the Subbasin would also be included in the Upper aquifer.

The Lower aquifer was defined as extending from about 200 to 300 feet below ground surface to the base of freshwater. It consists of Mehrten Formation sediments. It should be noted that in the eastern portion of the Subbasin the Upper aquifer includes the Mehrten Formation as it raises to ground surface.

Geologic Conditions

There are no regionally extensive fine-grained layers in the subsurface that were identified by previous studies or during the development of the geologic profiles or by historic references that could be used to separate and define principal aquifers.

There may be a confining bed in the deeper portions of the Mehrten Formation that is not being used for water supply in the NASb. Groundwater under the confining bed typically has dissolved gases and manganese concentrations above the MCL. It was partially identified near Roseville, but only a few other wells in the area have been drilled deep enough, so the full extent is unknown.

Groundwater Levels

Nested monitoring wells provide some of the highest quality data and groundwater levels in the various penetrated aquifers. Figure F-1 shows the location of nested and clustered wells in the NASb along with selected wells to illustrate groundwater levels in the different aquifers. Appendix J contains hydrographs for all of the nested and clustered wells in the Subbasin and sorted by DWR's definition of the aquifers.

Figure F-1 shows that for the most part, groundwater levels in the DWR-defined aquifers are similar, with the maximum difference in levels being 23 feet and those wells only present in the western portion of the subbasin. In the western portion, groundwater levels in the upper portions of the Mehrten Formation track similar to those in the Laguna Formation. Greater groundwater level differences are present in the deeper portions of the Mehrten Formation. The amount of separation of water levels between some zones indicates increasing confinement and isolation with depth (DWR, 1977). Other than for the western portion of the Subbasin, there is not a significant difference in groundwater levels between the two aquifers and does not suggest two separate aquifers.

Although there are head differences between the aquifers, wells in the areas are responding in a similar manner, to pumping and effects of recharge. Figure F-2 shows the head differences across the subbasin at nested or clustered wells and illustrates the similar trends in the aquifers suggesting they are interconnected.

The hydrographs show that groundwater levels in the Upper and Lower aquifers have similar trends, indicating that the aquifers are connected and are not separate. There is a slight lag time of the responses in the Lower aquifer.

Groundwater Gradients

The groundwater gradients are similar between the Upper and Lower aquifers except for on the east side. The gradients in the Upper aquifer are steeper from the east than in the Lower aquifer potentially due to groundwater recharge effects being greater in the Upper aquifer than in the Lower aquifer. Table F-1 provides the gradients by aquifers.

Table F-1. Groundwater Gradients

	Groundwater gradients (ft/ft)			
Aquifers	West	East	North	South
Upper	0.001	0.06	0.001	0.002
Lower	0.002	0.002	0.001	ND

Aquifer Hydraulic Characteristics

Aquifer hydraulic characteristics can best be determined by pumping a well and measuring the drawdown in observation well(s), but this only provides information at a single location in a 342,000-acre basin. The basis of the aquifers are from DWR's SVSim model which uses textural classifications to estimate hydraulic characteristics to simulate groundwater

hydraulic characteristics on a basin wide scale. The principal aquifers defined by DWR were not based on hydraulic characteristics of sediments. Aquifer tests with this elevated level of testing could not be located.

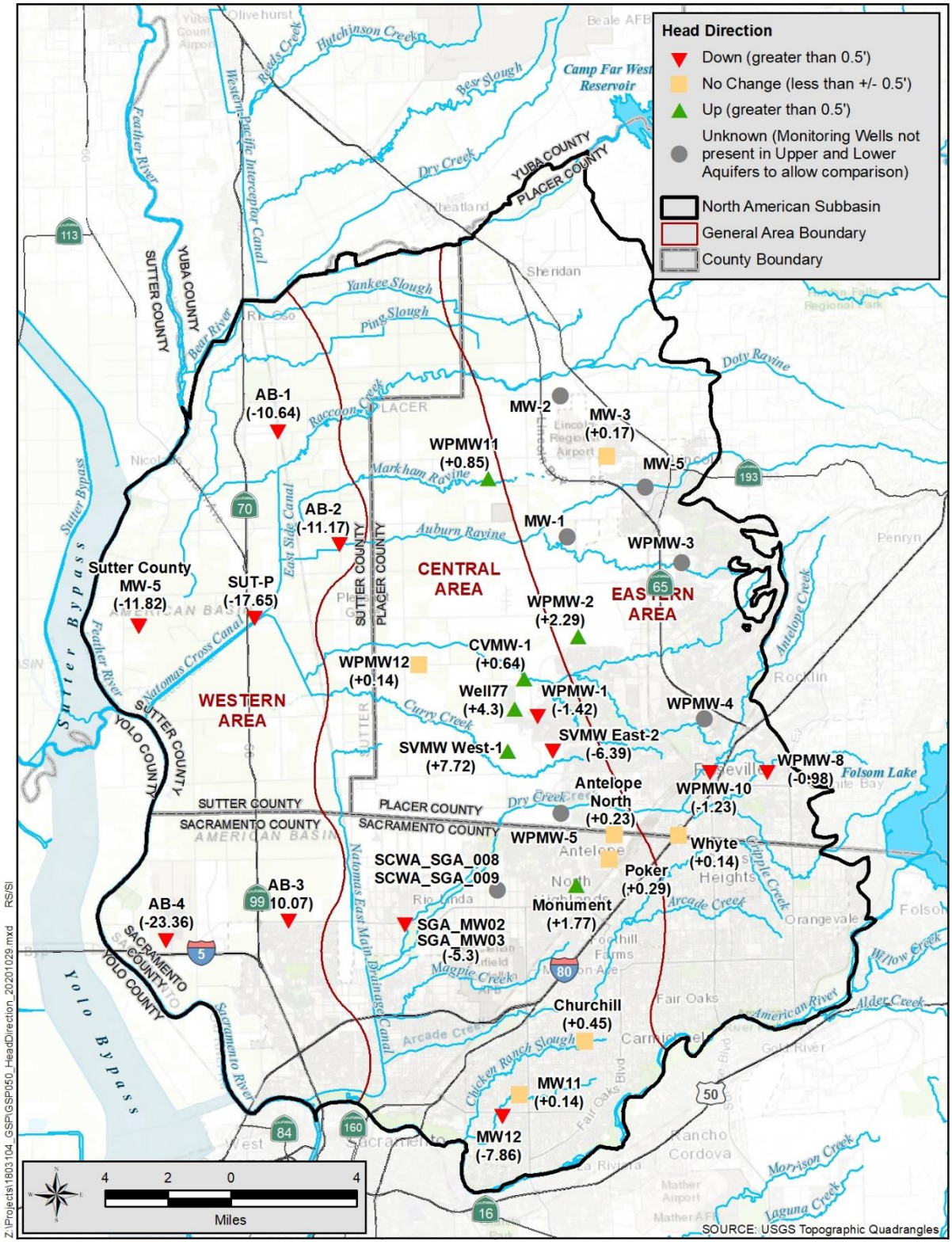


Figure F-1 Vertical Gradients Upper to Lower Aquifer – Fall 2019

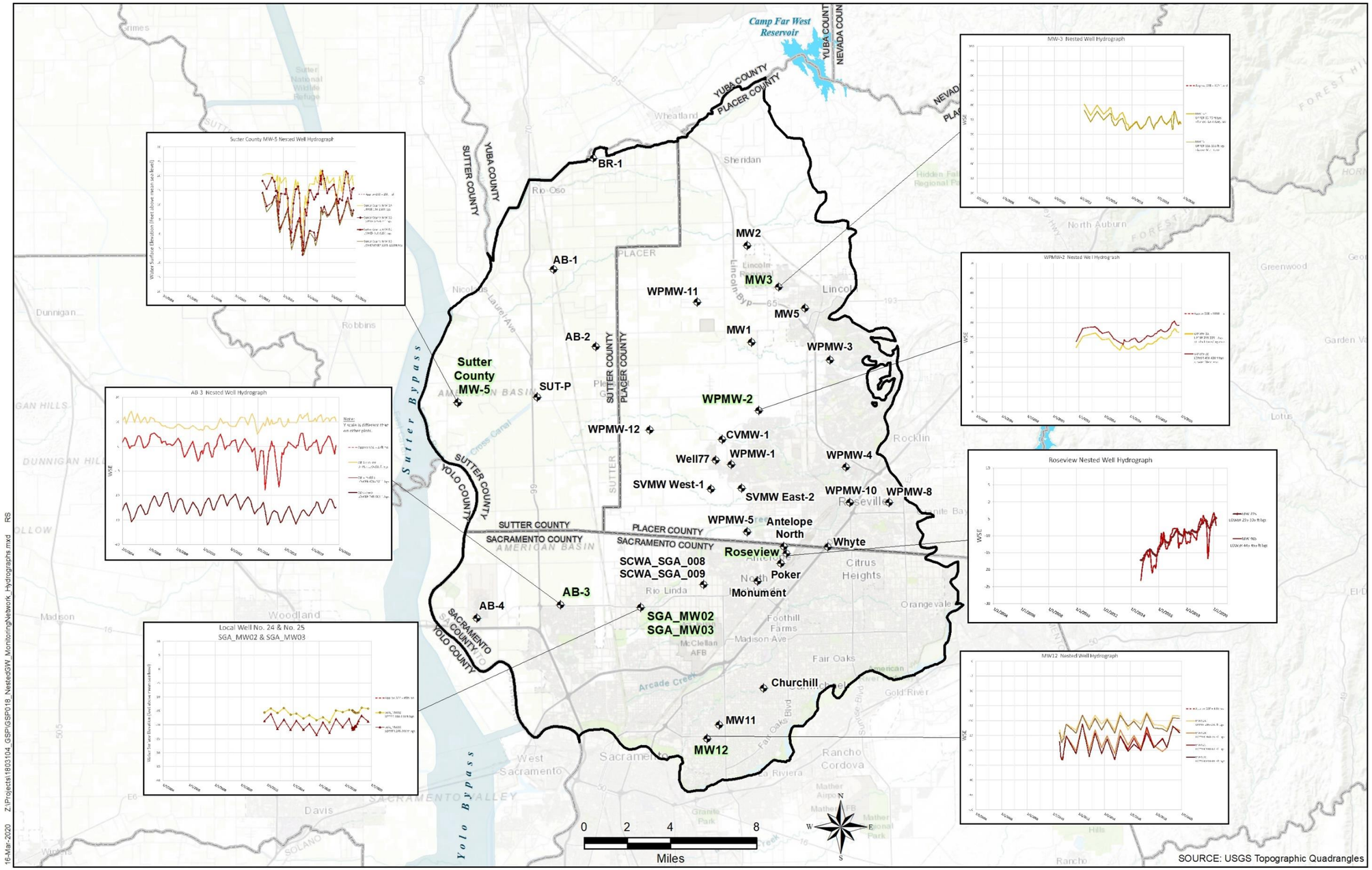


Figure F-2 Groundwater Level Trends

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General Water Quality

Figures F-3 and F-4 illustrate the distribution of total dissolved solids (TDS), a measure of the salt content, by the two DWR-identified aquifers in the central and western portion of the Subbasin and adjacent subbasins based on water quality sampling of depth-discrete monitoring wells that allowed vertical profiling of the groundwater quality in the various aquifers (GEI, 2020). The figures show that good quality water (green color and each ring representing one to three monitoring wells within the same aquifer) is present in the central portions of the Subbasin but poorer quality water (browns and reds) are present in the western portions of the Subbasin. Figure F-5 shows the distribution of the water quality in the subsurface by principal aquifers. The figure shows that water quality does not distinguish the DWR-defined principal aquifers.

Figures F-3 and F-4 show that high TDS groundwater is present along the western edge of the NASb. Figure F-5 shows the water quality in the western area is highly variable and not consistent by aquifer. Near surface groundwater, near the Feather River, contains high concentrations of TDS, along with elevated levels of chloride and nitrate, and its shallow depth suggests that it has been affected by agriculture. Underlying the near surface poor quality water is better quality water, but it also changes and varies with depth. There is also poor-quality water underlying the freshwater bearing aquifers, below the base of freshwater.

Number of Principal Aquifers

Based on the discussion above, there is not sufficient evidence to define two separate and distinct principal aquifers. Therefore, for the purposes of this GSP, the NASb only contains one principal aquifer.

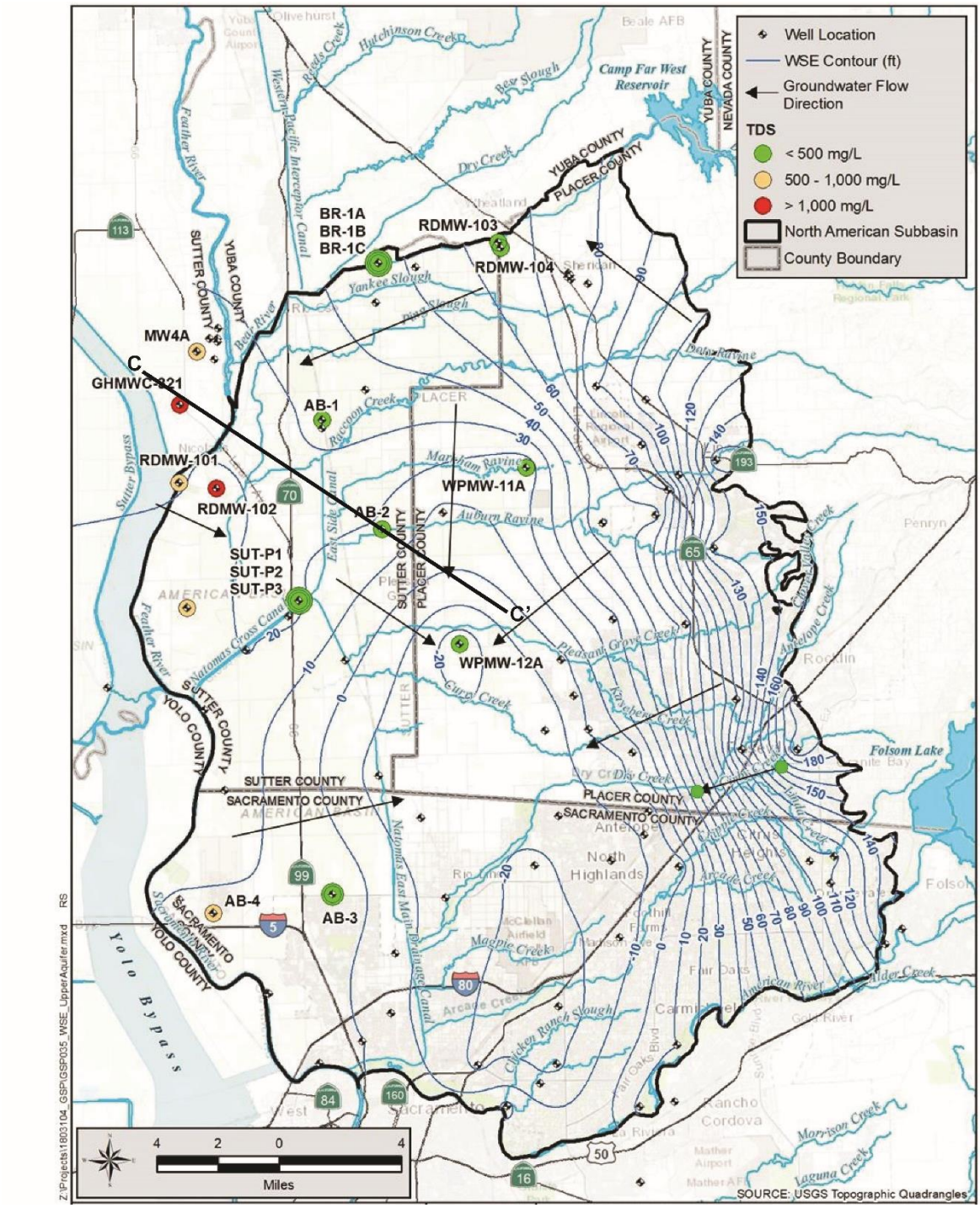


Figure F-3 Groundwater Quality Distribution Upper Aquifer

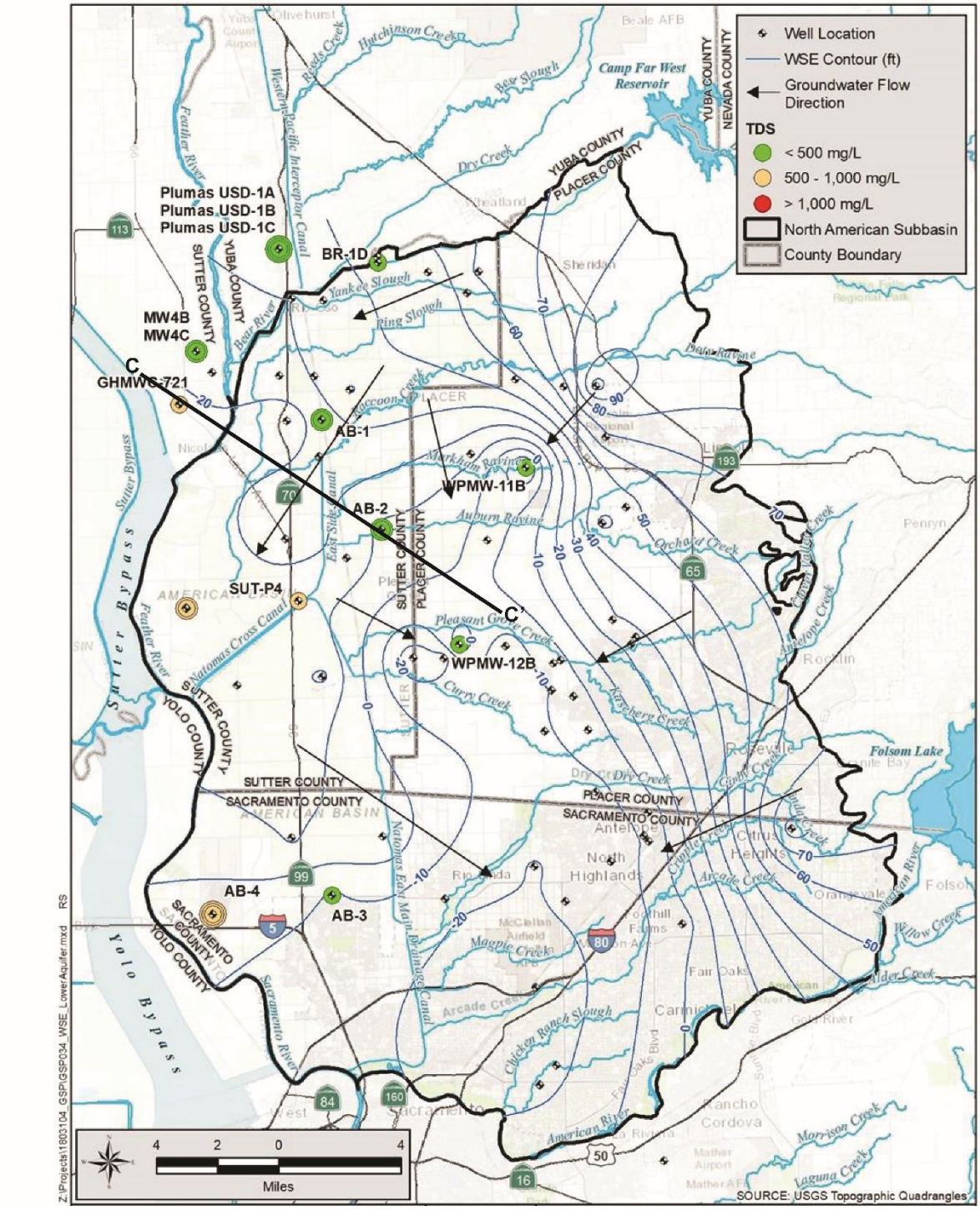


Figure F-4 Groundwater Quality Distribution Lower Aquifer

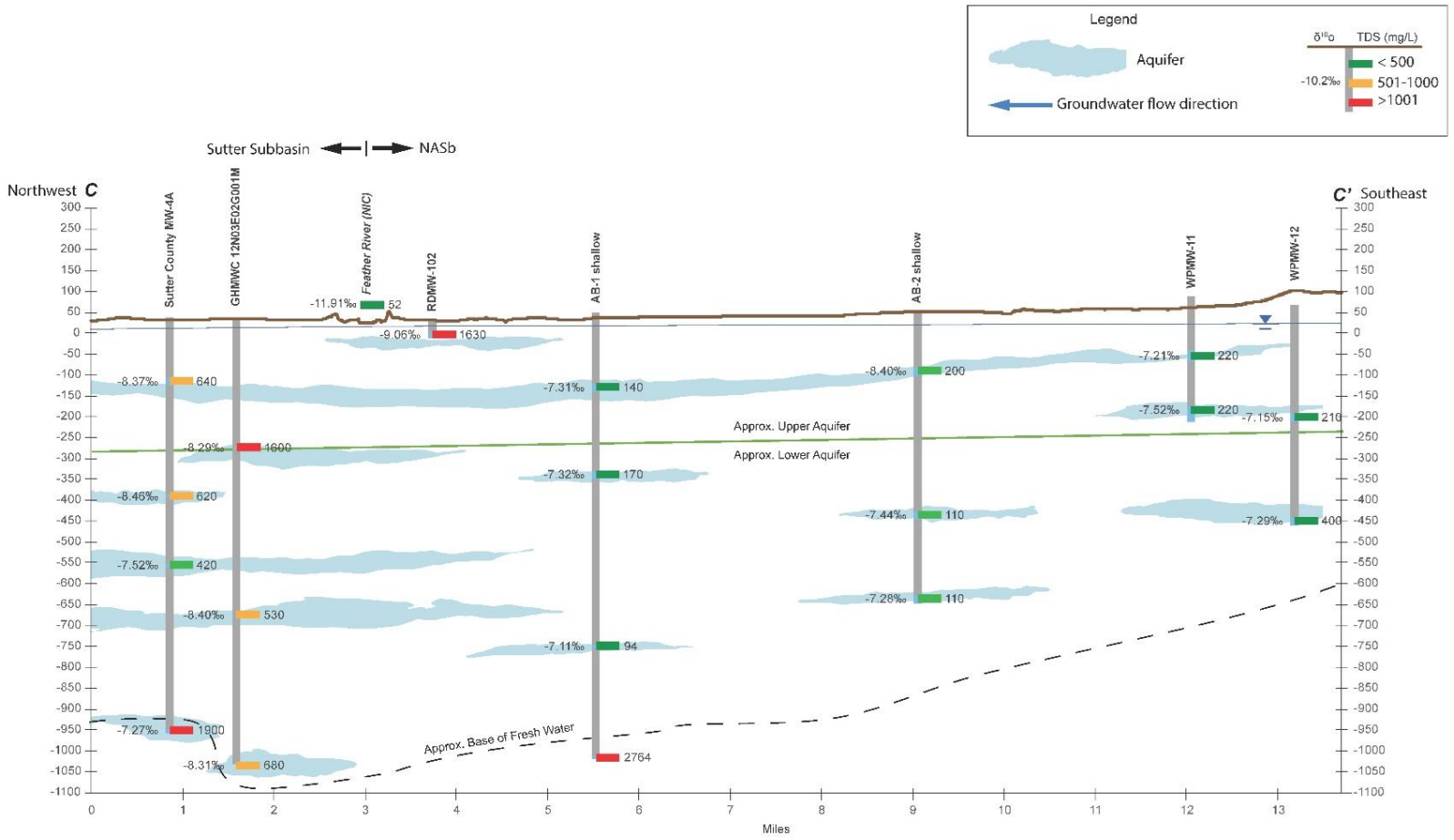


Figure F-5: Groundwater Quality Profile C-C'

Appendix G: Western Area Hydrographs

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX G
Western Area Wells with Hydrographs

December 2021

APPENDIX G

WESTERN AREA
WELLS WITH HYDROGRAPHS

LEGEND:

- Laguna Formation Wells
- Mehrten Formation Wells
- Wells with Unknown Construction Details
- Ione or Central Valley Fm. Wells

Long-Term Hydrographs

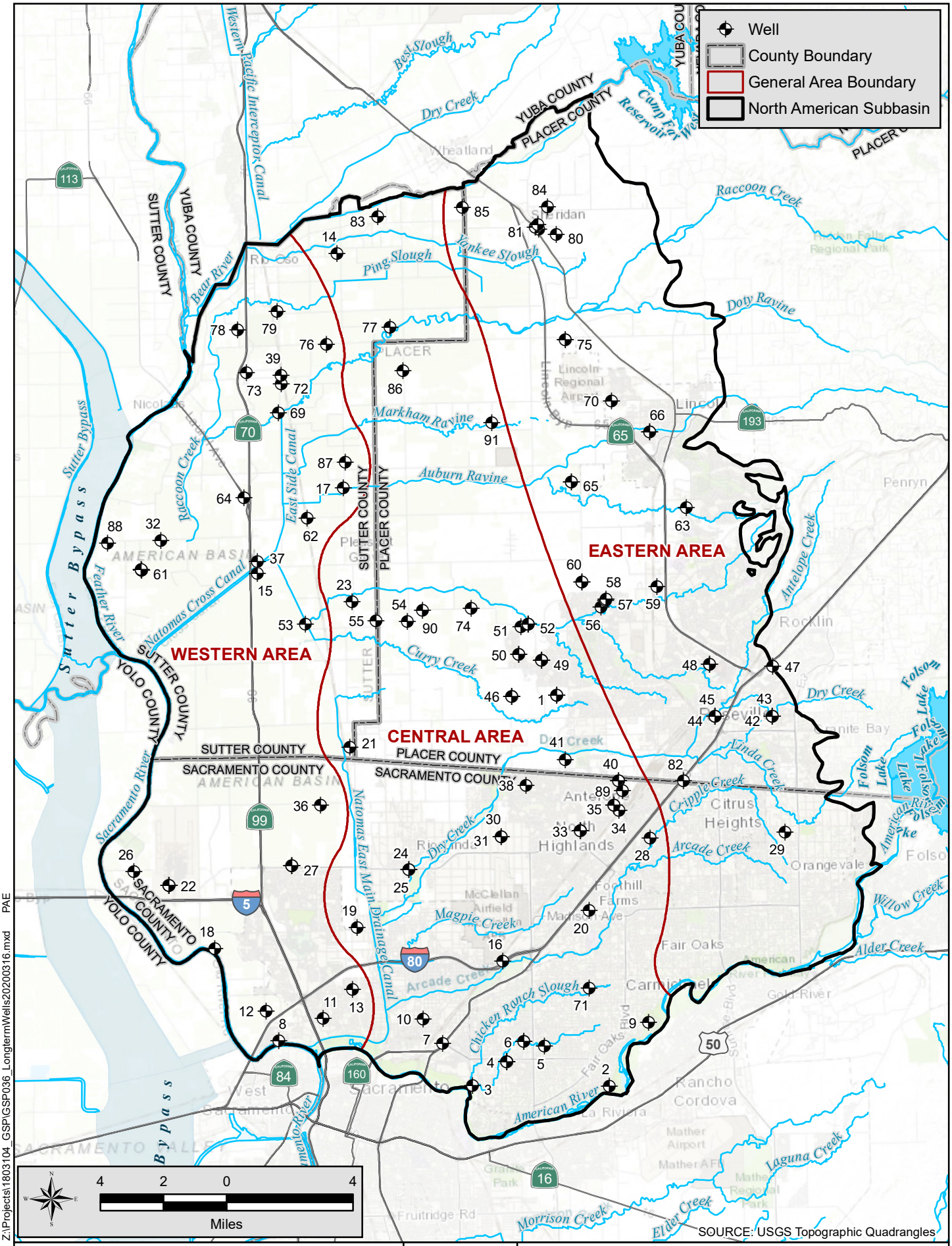
Years Displayed	1950 to 2019
Vertical Axis	50 feet

Unless otherwise noted

Short Term Hydrographs

Years Displayed	2004 to 2019
	Unless otherwise noted
Vertical Axis	50 feet
	Unless otherwise noted

Groundwater levels from multiple aquifers shown



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18-Mar-2020

North American Subbasin
Sutter, Placer and Sacramento Counties

North American Subbasin

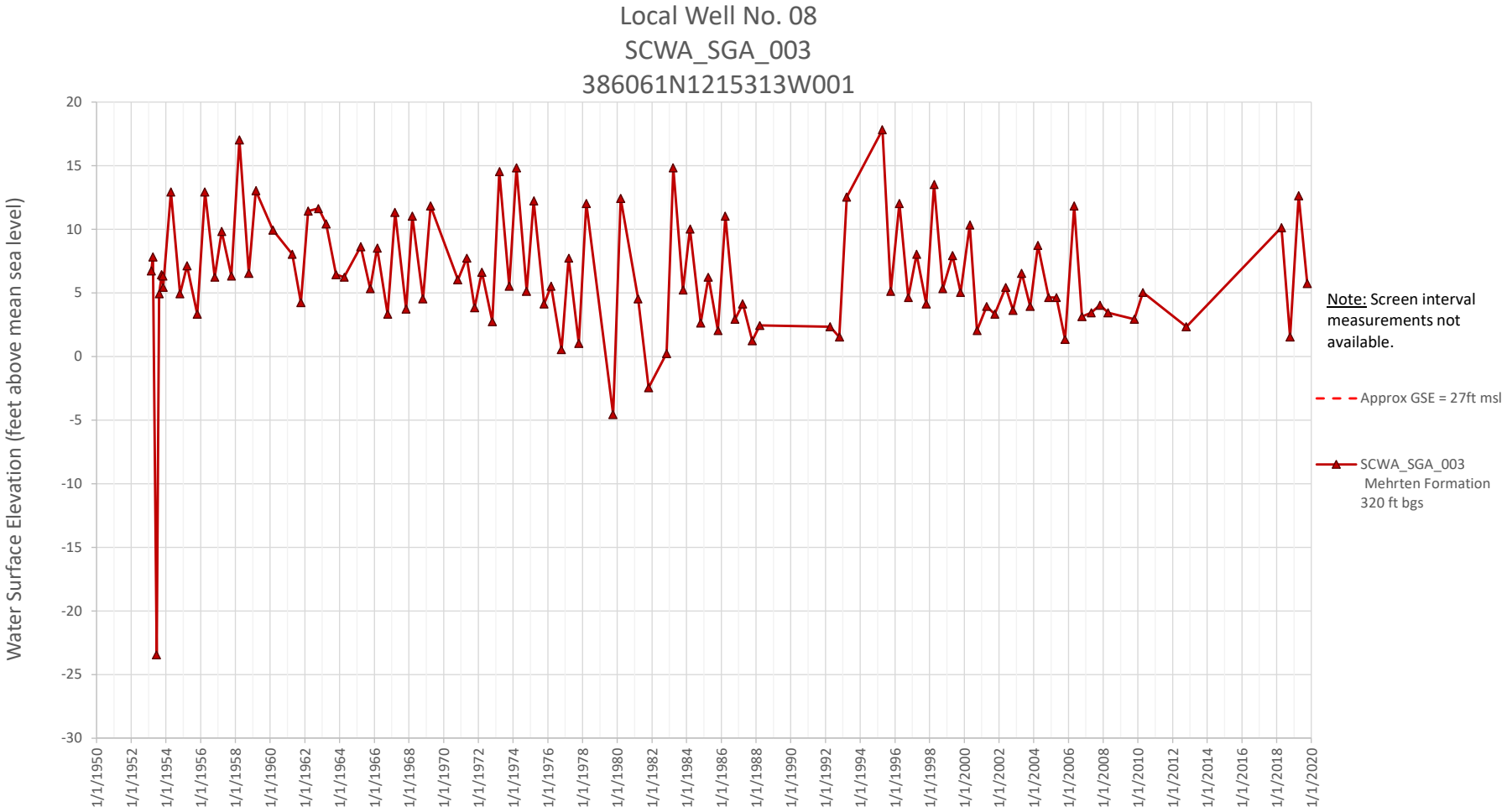
GEI Consultants

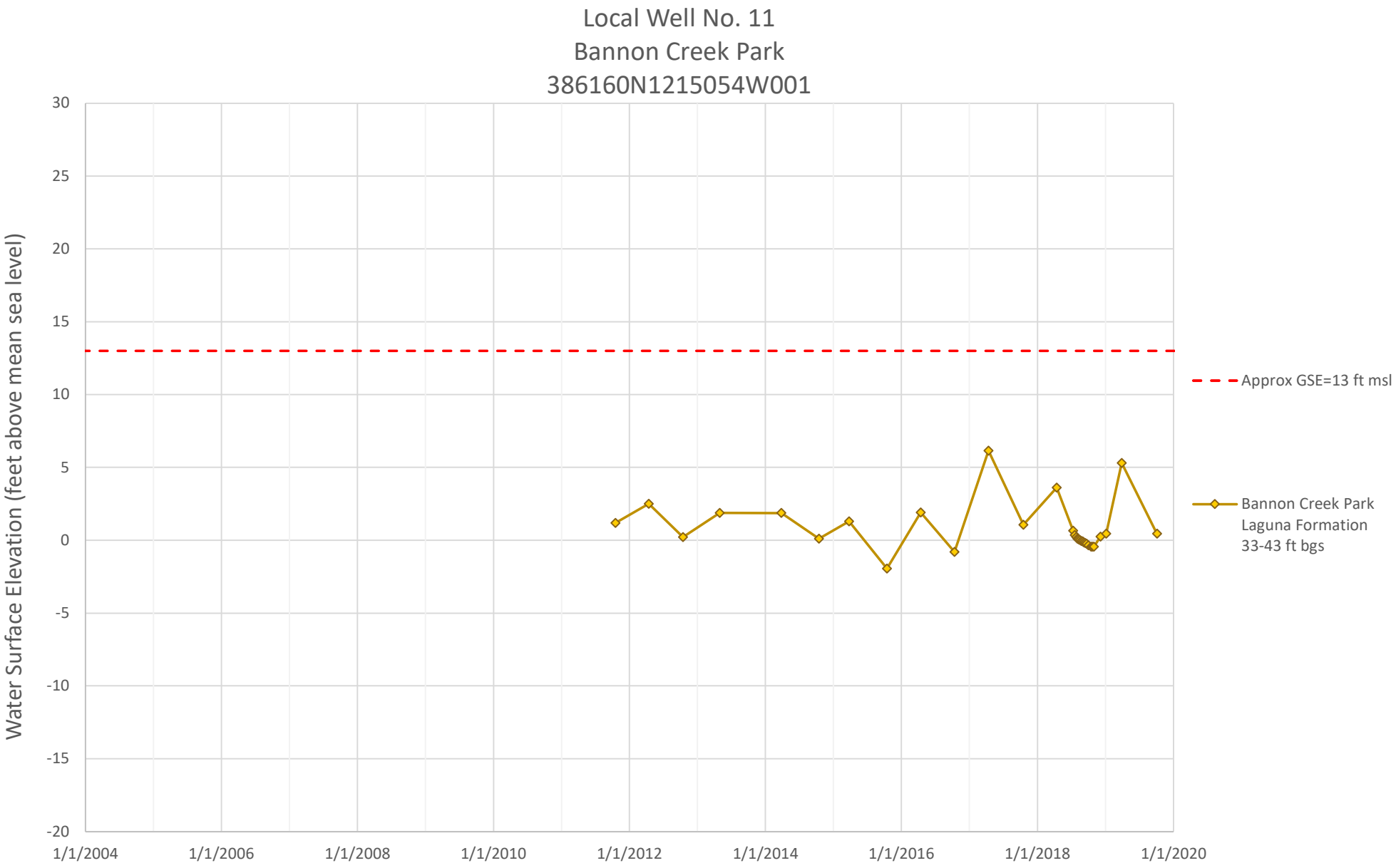
Long Term Wells

MARCH 2020

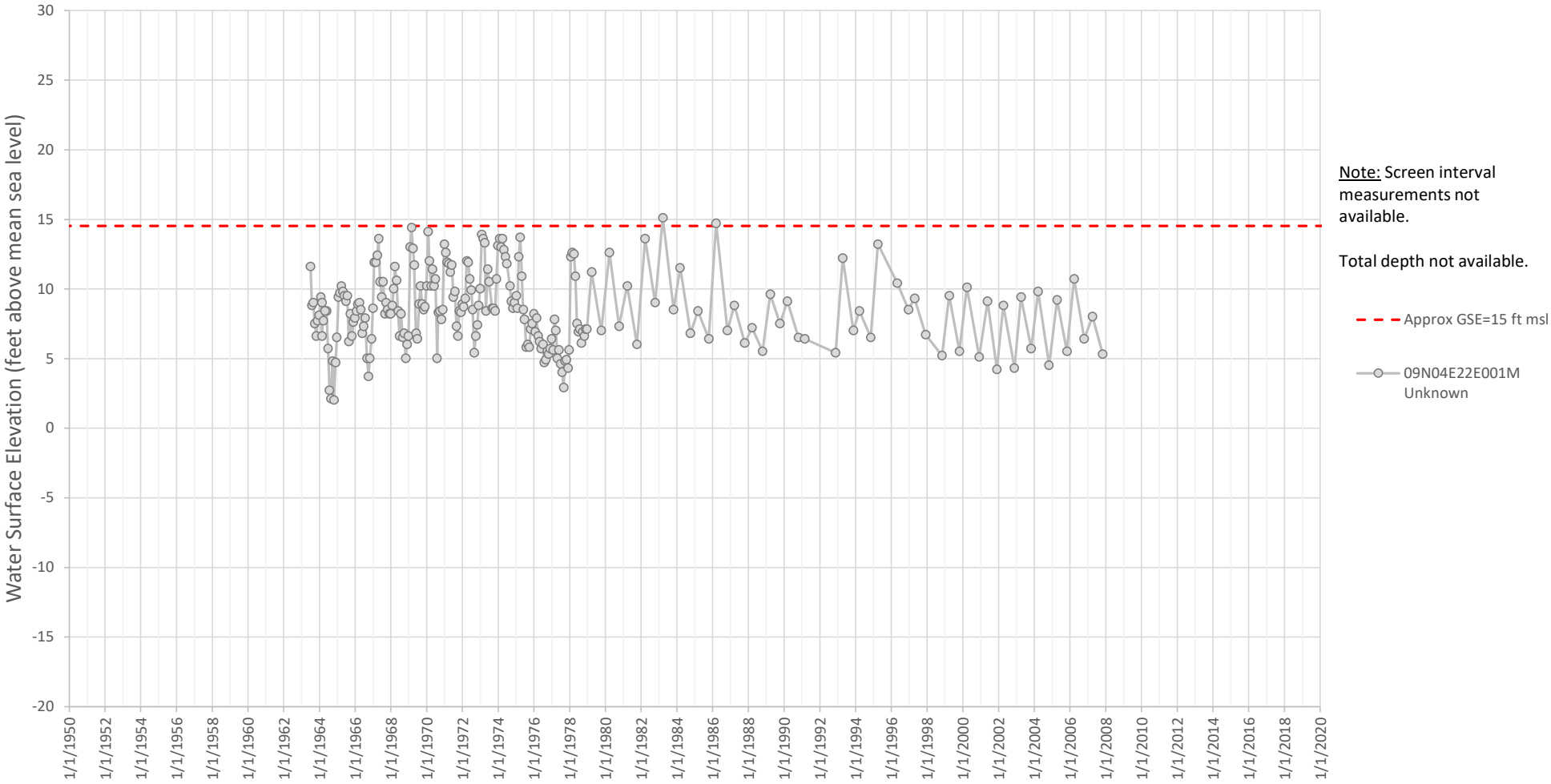
Sl No.	Local Well Number	State Well Number	CASGEM Well ID	CASGEM Station ID	Monitoring Entity	GW Basin Name	GW Basin Code	County	Well Use	CASGEM Well	Total Well Depth	Well Construction	Well Completion	Status	Latitude(Y)	Longitude(X)
1	SVMW East-2B	Not Available	48577	381626N1213651W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	525	Y	NOT AVAILABLE	Active	38.762629	-121.365097
1	SVMW East-2A	Not Available	48576	387626N1213651W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	140	Y	NOT AVAILABLE	Active	38.762629	-121.365099
1	SVMW East-2C	Not Available	48578	387626N1213651W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	670	Y	NOT AVAILABLE	Active	38.76263	-121.365098
2	SGA_MW06	Not Available	48014	385828N1213385W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	72	Y	e026069	Active	38.58281	-121.33846
3	SGA_MW04	Not Available	48012	385841N1214185W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	65	Y	e029066	Active	38.58414	-121.41852
4	MW12A	Not Available	48021	385947N1213985W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	285	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12B	Not Available	48022	385947N1213985W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	385	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12C	Not Available	48023	385947N1213985W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	615	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12D	Not Available	48024	385947N1213985W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	845	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12E	Not Available	48025	385947N1213985W005	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	1005	Y	NOT AVAILABLE	Active	38.59472	-121.39847
5	DWR_SGA_004	09N05E25J001M	9641	386016N1213761W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	238	N	94507	Active	38.6016	-121.3761
6	MW11A	Not Available	48018	386038N1213882W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	187	Y	NOT AVAILABLE	Active	38.6038	-121.38815
6	MW11B	Not Available	48019	386038N1213882W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	278	Y	NOT AVAILABLE	Active	38.6038	-121.38815
6	MW11C	Not Available	48020	386038N1213882W003	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	375	Y	NOT AVAILABLE	Active	38.6038	-121.38815
7	DWR_SGA_005	09N05E28K001M	9643	386038N1214357W001	Department of Water Resources	North American	5-021.64	Sacramento	Irrigation	No	250	N	NOT AVAILABLE	Active	38.6038	-121.4357
8	SCWA_SGA_003	09N04E27F001M	8944	386061N1215313W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	320	N	828	Active	38.6061	-121.5313
9	SCWA_SGA_004	09N06E27D001M	9648	386117N1213150W001	Sacramento Central Groundwater	North American	5-021.64	Sacramento	Observation	No	200	N	NOT AVAILABLE	Inactive	38.6117	-121.315
10	DWR_SGA_003	09N05E21M001M	31412	386151N1214467W001	Department of Water Resources	North American	5-021.64	Sacramento	Unknown	No	89	N	NOT AVAILABLE	Active	38.6151	-121.4467
11	Bannon Creek Park	09N04E23R002M	48041	386160N1215054W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	48	Y	NOT AVAILABLE	Active	38.61603	-121.5054
12	09N04E22E001M	09N04E22E001M	8943	386199N1215386W001	Department of Water Resources	North American	5-021.64	Sacramento	Residential	No	-	N	NOT AVAILABLE	Active	38.6199	-121.5386
13	Chuckwagon Park	09N04E13R001M	48040	386292N1214877W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	52	Y	NOT AVAILABLE	Active	38.62921	-121.4877
14	13N04E23A002M	13N04E23A002M		389669N1214897W001	Department of Water Resources	North American	5-021.64	Sutter	Residential		83				38.9669	-121.4897
15	11N04E09D002M	11N04E09D002M		388208N1215397W001	Department of Water Resources	North American	5-021.64	Sutter	Residential		100				38.8208	-121.5397
16	DWR_SGA_002	09N05E14B001M	40050	386410N1213995W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	550	N	49236	Active	38.641	-121.3995
17	AB-2 deep	12N04E26J002M		388593N1214885W001	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
17	AB-2 middle	12N04E26J003M		388593N1214885W002	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
17	AB-2 shallow	12N04E26J004M		388593N1214885W003	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
18	SCWA_SGA_002	09N04E08L001M	29914	386489N1215679W001	Department of Water Resources	North American	5-021.64	Sacramento	Irrigation	No	105	N	185	Active	38.6489	-121.5679
19	SCWA_SGA_001	09N04E01R001M	8921	386576N1214846W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	82	N	NOT AVAILABLE	Active	38.6576	-121.4846
20	SGA_MW05	Not Available	48013	386635N1213486W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	220	Y	e029068	Active	38.66347	-121.34859
21	10N04E12A001M	10N04E12A001M		387404N1214870W001	Department of Water Resources	North American	5-021.64		Irrigation					Active	38.7404	-121.487
22	AB-4 deep	10N04E31M001M	39756	386782N1215943W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	1080	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 middle-deep	10N04E31M002M	24319	386782N1215943W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	815	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 middle-shallow	10N04E31M003M	37857	386782N1215943W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	410	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 shallow	10N04E31M004M	24318	386782N1215943W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	200	Y	NOT AVAILABLE	Active	38.6782	-121.5943
23	South Sutter	11N04E13D001M		388072N1214842W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation		535				38.8072	-121.4842
24	SGA_MW02	Not Available	48010	386836N1214536W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	110	Y	e029062	Active	38.68362	-121.45363
25	SGA_MW03	Not Available	48011	386836N1214536W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	305	Y	e034123	Active	38.68356	-121.45362
26	SCWA_SGA_005	10N03E35A001M	40055	386848N1216146W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	96	N	221	Active	38.6848	-121.6146
27	AB-3 deep	10N04E27R002M	32581	386864N1215222W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	995	Y	NOT AVAILABLE	Active	38.6864	-121.5222
27	AB-3 middle	10N04E27R003M	15689	386864N1215222W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	500	Y	NOT AVAILABLE	Active	38.6864	-121.5222
27	AB-3 shallow	10N04E27R004M	15690	386864N1215222W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	220	Y	NOT AVAILABLE	Active	38.6864	-121.5222
28	Twin Creeks Park	10N06E27F001M	48042	386964N1213120W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	198	Y	NOT AVAILABLE	Active	38.6964	-121.31203
29	SCWA_SGA_012	10N07E29G001M	33380	386979N1212329W001	Sacramento County	North American	5-021.64	Sacramento	Irrigation	No	240	N	1037	Inactive	38.6979	-121.2329
30	SCWA_SGA_008	10N05E14Q002M	13652	386982N1213992W001	Department of Water Resources	North American	5-021.64	Sacramento	Residential	No	225	N	10678	Active	38.6982	-121.3992
31	SCWA_SGA_009	10N05E26B002M	13654	386982N1213992W002	Sacramento County	North American	5-021.64	Sacramento	Residential	No	150	N	NOT AVAILABLE	Active	38.6982	-121.3992
32	MLF Well #1	11N03E01D001M		388361N1215959W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.83664	-121.59591
33	Monument (A)	Not Available	48030	387000N1213529W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	274	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (B)	Not Available	48031	387000N1213529W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	334	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (C)	Not Available	48032	387000N1213529W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	450	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (D)	Not Available	48033	387000N1213529W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	544	Y	NOT AVAILABLE	Active	38.70005	-121.35288
34	SCWA_SGA_010	10N06E21F002M	33087	387092N1213300W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	144	N	NOT AVAILABLE	Active	38.7092	-121.33
35	Poker (A)	Not Available	48034	387117N1213327W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	134	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (B)	Not Available	48035	387117N1213327W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	176	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (C)	Not Available	48036	387117N1213327W003	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	320	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (D)	Not Available	48037	387117N1213327W004	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	470	Y	NOT AVAILABLE	Active	38.71174	-121.33271
36	SCWA_SGA_006	10N04E23A001M	32580	387138N1215047W001	Sacramento County	North American	5-021.64	Sacramento	Industrial	No	85	N	NOT AVAILABLE	Active	38.7138	-121.5047
37	SUT-P4	11N04E04N001M		388260N1215394W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		305				38.826	-121.5394
37	SUT-P3	11N04E04N002M		388260N1215394W002	Department of Water Resources	North American	5-021.64	Sutter	Observation		195				38.826	-121.5394
37	SUT-P2	11N04E04N003M		388260N1215394W003	Department of Water Resources	North American	5-021.64	Sutter	Observation		120				38.826	-121.5394
37	SUT-P1	11N04E04N004M		388260N1215394W004	Department of Water Resources	North American	5-021.64	Sutter	Observation		980				38.826	-121.5394
38	Lone Oak Park	10N05E13F001M	48043	387216N1213842W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	166	Y	NOT AVAILABLE	Active	38.72163	-121.38417
39	AB-1 deep	12N04E03N001M		389116N1215238W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		980				38.9116	-121.5238
39	AB-1 middle-deep	12N04E03N002M		389116N1215238W002	Department of Water Resources	North American	5-021.64	Sutter	Observation		710				38.9116	-121.5238
39	AB-1 shallow	12N04E03N004M		389116N1215238W003	Department of Water Resources	North American	5-021.64	Sutter	Observation		190				38.9116	-121.5238
Sl No.	Local Well Number	State Well Number	CASGEM Well ID	CASGEM Station ID	Monitoring Entity	GW Basin Name	GW Basin Code	County	Well Use	CASGEM Well	Total Well Depth	Well Construction	Well Completion	Status	Latitude(Y)	Longitude(X)
39	AB-1 middle-shallow	12N04E03N003M		389117N1215238W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		530				38.9116	-121.5238
40	Antelope North (A)	Not Available	48038	387228N1213298W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	283	Y	NOT AVAILABLE	Active	38.722803	-121.329755
40	Antelope North (B)	Not Available	48039	387228N1213298W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	473	Y	NOT AVAILABLE	Active	38.722803	-121.329755
41	WPMW-5A	Not Available	51280	387331N1213610W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	100	Y	e0266541	Active	38.733106	-121.360994
41	WPMW-5B	Not Available	51281	387331N1213610W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	650	Y	e0266541	Active	38.733106	-121.360994
42	WPMW-7A	Not Available	51283	387512N1212390W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	45	Y	e0265730	Active	38.751194	-121.239
43	WPMW-8A	Not Available	51284	387510N1212390W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	50	Y	e0265733	Active	38.750989	-121.23895
43	WPMW-8B	Not Available	51285	387510N1212390W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	115	Y	e0265733	Active	38.750989	-121.23895
44	WPMW-9A	Not Available	51286	387517N1212727W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	36	Y	e0265735	Active	38.751667	-121.272656
45	WPMW-10A	Not Available	51287	387515N1212725W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	36	Y	e0265738	Active	38.751494	-121.272511
45	WPMW-10B	Not Available	51288	387515N1212725W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	100	Y	e0265738	Active	38.751494	-121.272511
45	WPMW-10C	Not Available	51289	387515N1212725W003	City of Roseville	North American	5-021.64	Placer	Observation	Yes	260	Y	e0265738	Active	38.751494	-121.272511

46	SVMW West - 1A	Not Available	48573	387623N1213915W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	145	Y	NOT AVAILABLE	Active	38.762324	-121.39153
46	SVMW West - 1B	Not Available	48574	387623N1213915W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	560	Y	NOT AVAILABLE	Active	38.762325	-121.39153
46	SVMW West - 1C	Not Available	48575	387623N1213915W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	750	Y	NOT AVAILABLE	Active	38.762325	-121.391529
48	WPMW-4A	Not Available	48567	387755N1212753W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	145	Y	NOT AVAILABLE	Active	38.775536	-121.275254
48	WPMW-4B	Not Available	48568	387755N1212753W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	300	Y	NOT AVAILABLE	Active	38.775535	-121.275255
49	WPMW-1A	Not Available	48560	387786N1213737W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	120	Y	NOT AVAILABLE	Active	38.778603	-121.373698
49	WPMW-1B	Not Available	48561	387786N1213737W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	480	Y	NOT AVAILABLE	Active	38.778603	-121.373697
49	WPMW-1C	Not Available	48562	387786N1213737W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	545	Y	NOT AVAILABLE	Active	38.778602	-121.373698
50	W-77MW-A	Not Available	51294	387816N1213870W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	516	Y	NOT AVAILABLE	Active	38.781581	-121.38702
50	W-77MW-B	Not Available	51295	387816N1213870W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	604	Y	NOT AVAILABLE	Active	38.781581	-121.38702
51	O'Brien well	11N05E23B001M	11223	387943N1213856W001	City of Roseville	North American	5-021.64	Placer	Residential	No	195	N	NOT AVAILABLE	Active	38.7943	-121.3856
52	CVMW-1A	Not Available	48569	387957N1213813W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	285	Y	NOT AVAILABLE	Active	38.795655	-121.38126
52	CVMW-1B	Not Available	48571	387957N1213813W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	495	Y	NOT AVAILABLE	Active	38.795654	-121.381258
52	CVMW-1C	Not Available	48572	387957N1213813W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	590	Y	NOT AVAILABLE	Active	38.795655	-121.381258
53	South Sutter WD	11N04E15Q001M	10508	387971N1215119W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.7971	-121.5119
54	South Sutter WD	11N05E18R001M	11221	387977N1214521W001	South Sutter Water District	North American	5-021.64	Placer	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.7977	-121.4521
55	South Sutter WD	11N04E13R001M	10507	387982N1214704W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.7982	-121.4704
56	DCMW-3	Not Available	51293	388027N1213384W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	520	Y	NOT AVAILABLE	Active	38.80271	-121.338432
57	DCMW-1	Not Available	51291	388058N1213355W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	455	Y	NOT AVAILABLE	Active	38.805757	-121.335503
58	DCMW-2	Not Available	51292	388063N1213354W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	437	Y	NOT AVAILABLE	Active	38.806291	-121.335415
59	Tinker MW	Not Available	51290	388116N1213054W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	177	Y	NOT AVAILABLE	Active	38.811594	-121.305387
60	WPMW-2A	Not Available	48563	388145N1213491W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	230	Y	NOT AVAILABLE	Active	38.814497	-121.349144
60	WPMW-2B	Not Available	48564	388145N1213491W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	425	Y	NOT AVAILABLE	Active	38.814497	-121.349143
61	Sutter County MW-5A	11N03E02Q002M	47776	388235N1216079W001	Sutter County	North American	5-021.64	Sutter	Observation	Yes	170	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5B	11N03E02Q003M	47777	388235N1216079W002	Sutter County	North American	5-021.64	Sutter	Observation	Yes	675	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5C	11N03E02Q004M	47778	388235N1216079W003	Sutter County	North American	5-021.64	Sutter	Observation	Yes	930	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5D	11N03E02Q005M	47779	388235N1216079W004	Sutter County	North American	5-021.64	Sutter	Observation	Yes	1225	Y	E0123539	Active	38.8235	-121.6079
62	South Sutter WD	12N04E34H001M	17037	388458N1215100W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Residential	Yes	-	N	NOT AVAILABLE	Active	38.8458	-121.51
63	WPMW-3A	Not Available	48565	388476N1212872W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	53	Y	NOT AVAILABLE	Active	38.847609	-121.287189
63	WPMW-3B	Not Available	48566	388476N1212872W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	140	Y	NOT AVAILABLE	Active	38.847609	-121.287187
64	South Sutter WD	12N04E29J001M	25784	388555N1215468W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.8555	-121.5468
65	MW 1-2	Not Available	49928	388604N1213544W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	318	Y	NOT AVAILABLE	Active	38.860383	-121.354383
65	MW 1-4	Not Available	49930	388604N1213544W004	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	92	Y	NOT AVAILABLE	Active	38.860383	-121.354383
66	MW 5-1	Not Available	49937	388826N1213078W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	100	Y	NOT AVAILABLE	Active	38.882583	-121.30775
66	MW 5-2	Not Available	49938	388826N1213078W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	62	Y	NOT AVAILABLE	Active	38.882583	-121.30775
69	South Sutter WD	12N04E16A004M	17031	388944N1215257W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.8944	-121.5257
70	MW 3-2	Not Available	49935	388971N1213301W002	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	75	Y	NOT AVAILABLE	Active	38.897133	-121.330083
71	WCMSS	Not Available	52461	386280N1213493W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	170	Y	WCR2016-005904	Active	38.62799	-121.34925
71	WCMSM	Not Available	52462	386280N1213493W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	290	Y	WCR2016-005902	Active	38.62799	-121.34925
71	WCMSD	Not Available	52463	386280N1213493W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	530	Y	WCR2016-005899	Active	38.62799	-121.34925
72	South Sutter WD	12N04E10D002M	17027	389075N1215237W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.9075	-121.5237
73	South Sutter WD	12N04E05R004M	17025	389130N1215441W001	South Sutter Water District	North American	5-021.64	Sutter	Residential	Yes	90	N	NOT AVAILABLE	Active	38.913	-121.5441
74	11N05E16H001M	11N05E16H001M		388029N1214145W001	Department of Water Resources	North American	5-021.64	Placer	Irrigation		460				38.8029	-121.4145
75	MW 2-1	Not Available	49931	389255N1213566W001	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	310	Y	NOT AVAILABLE	Active	38.925467	-121.356633
75	MW 2-2	Not Available	49932	389255N1213566W002	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	170	Y	NOT AVAILABLE	Active	38.925467	-121.356633
76	South Sutter WD	13N04E35Q002M	35624	389255N1214969W001	South Sutter Water District	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.9255	-121.4969
77	South Sutter WD	13N05E31K001M	40137	389327N1214594W001	Department of Water Resources	North American	5-021.64	Sutter	Unknown	Yes	393	N	NOT AVAILABLE	Active	38.9327	-121.4594
78	South Sutter WD	13N04E32G001M	35623	389328N1215489W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.9328	-121.5489
79	South Sutter WD	13N04E28R001M	17195	389410N1215254W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.941	-121.5254
80	Cemetery	Not Available	51328	389740N1213606W001	Placer County	North American	5-021.64	Placer	Irrigation	Yes	111	Y	NOT AVAILABLE	Active	38.974027	-121.360615
81	MW-2	Not Available	51331	389764N1213710W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	45	Y	NOT AVAILABLE	Active	38.976427	-121.371001
81	MW-3	Not Available	51332	389774N1213728W001	Placer County	North American	5-021.64	Placer	Observation	Yes	35	Y	NOT AVAILABLE	Active	38.977408	-121.372844
81	MW-1	Not Available	51330	389785N1213713W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	40	Y	NOT AVAILABLE	Active	38.97846	-121.37132
Sl No.	**Local Well Number**	**State Well Number**	**CASGEM Well ID**	**CASGEM Station ID**	**Monitoring Entity**	**GW Basin Name**	**GW Basin Code**	**County**	**Well Use**	**CASGEM Well**	**Total Well Depth**	**Well Construction**	**Well Completion**	**Status**	**Latitude(Y)**	**Longitude(X)**
82	Whyte A	Not Available	52475	387222N1212920W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	226	Y	e0303799	Active	38.722168	-121.29196
82	Whyte B	Not Available	52476	387222N1212920W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	306	Y	e0303799	Active	38.722168	-121.29196
83	South Sutter WD	13N05E18C001M	17209	389834N1214655W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	210	N	NOT AVAILABLE	Active	38.9834	-121.4655
84	Spencer	Not Available	52555	389867N1213654W002	Department of Water Resources	North American	5-021.64	Placer	Residential	Yes	107	Y	101157	Active	38.986724	-121.36542
85	13N05E09R001M	13N05E09R001M		389873N1214156W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.9873	-121.4156
86	12N05E06R001M	12N05E06R001M		389128N1214522W001	Department of Water Resources	North American	5-021.64	Placer	Irrigation						38.9128	-121.4522
87	12N04E24M002M	12N04E24M002M		388710N1214870W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.871	-121.487
88	11N03E03C002M	11N03E03C002M		388357N1216273W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.8357	-121.6273
89	Roseview-MW315	Not Available			Sacramento Groundwater Authority	North American	5-021.64				315				38.718222	-121.327729
89	Roseview-MW465	Not Available			Sacramento Groundwater Authority	North American	5-021.64				465				38.718222	-121.327729
90	WPMW-11A	Not Available	54779	388882N1214005W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	162	Y	NOT AVAILABLE		38.888164	-121.400463
90	WPMW-11B	Not Available	54780	388882N1214005W004	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	309	Y	NOT AVAILABLE		38.888164	-121.400463
91	WPMW12-A	Not Available			Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	300	Y	NOT AVAILABLE		38.802639	-121.443216
91	WPMW12-B	Not Available			Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	550	Y	NOT AVAILABLE		38.802639	-121.443216


Local Well No. 08
SCWA_SGA_003
386061N1215313W001
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurements not available.
Approx GSE = 27ft msl
SCWA_SGA_003
Mehrten Formation
320 ft bgs

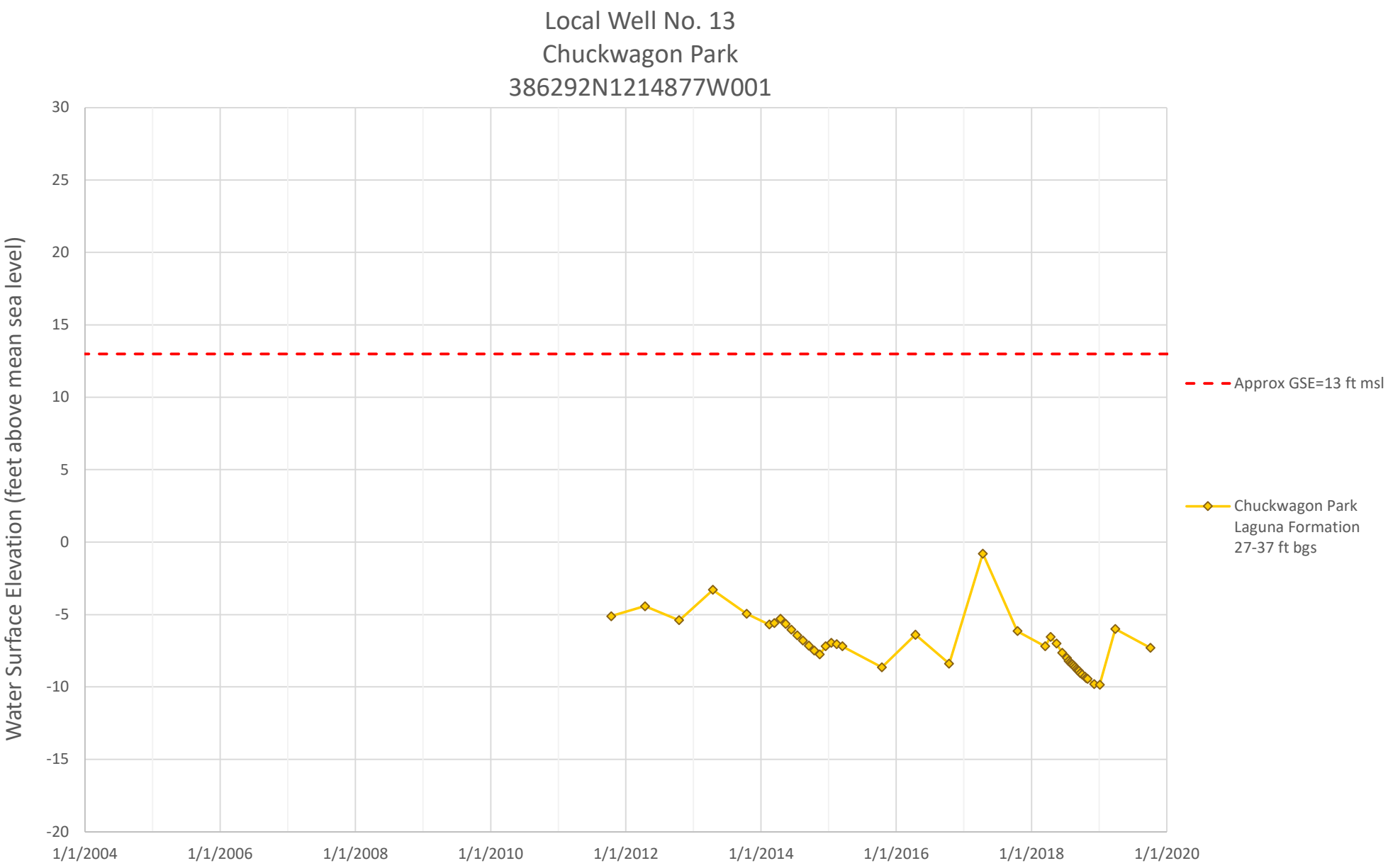

Local Well No. 11
Bannon Creek Park
386160N1215054W001
Water Surface Elevation (feet above mean sea level)
30
25
20
15
10
5
0
-5
-10
-15
-20
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE=13 ft msl
Bannon Creek Park
Laguna Formation
33-43 ft bgs

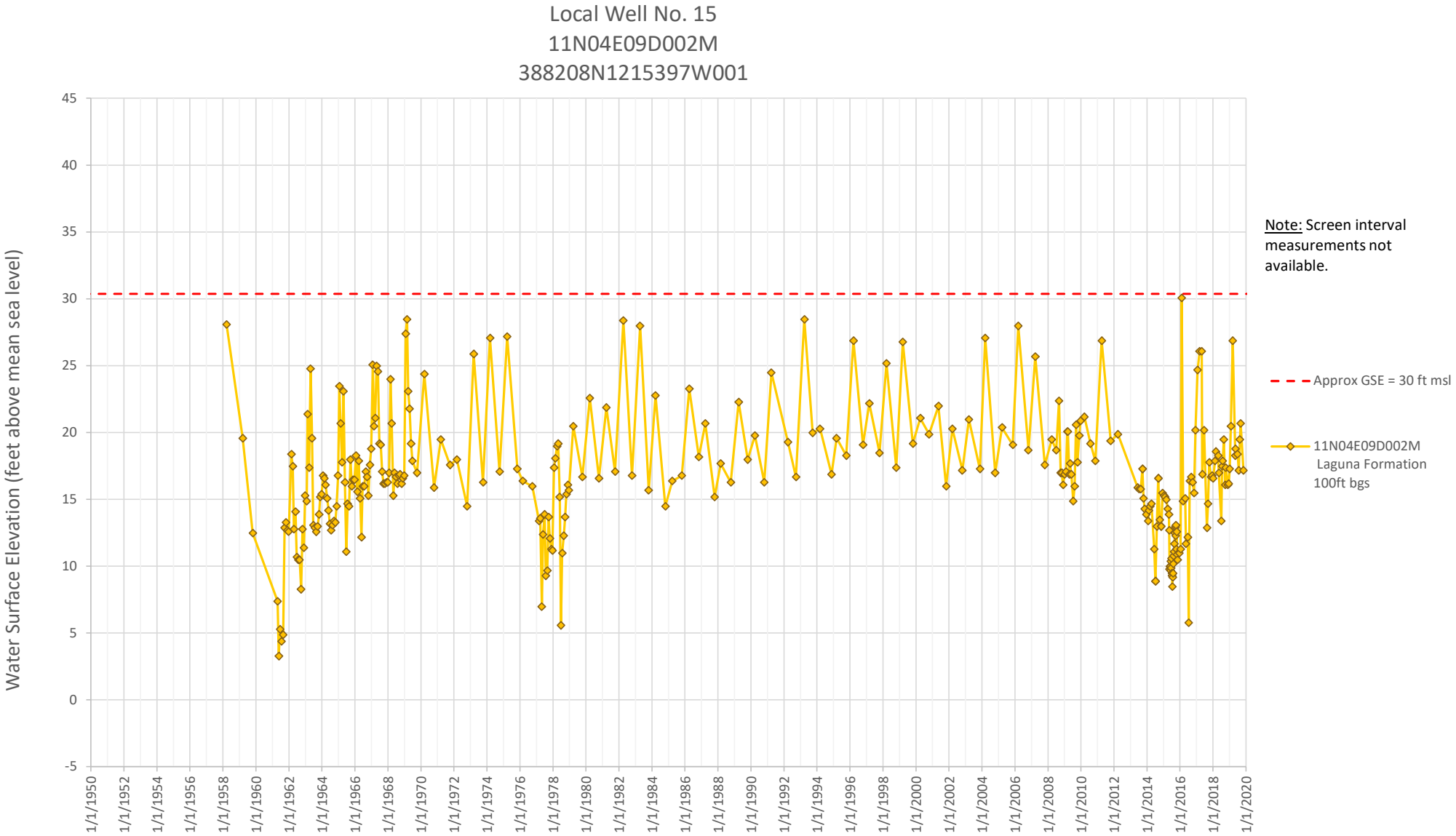
Local Well No. 12
09N04E22E001M
386199N1215386W001

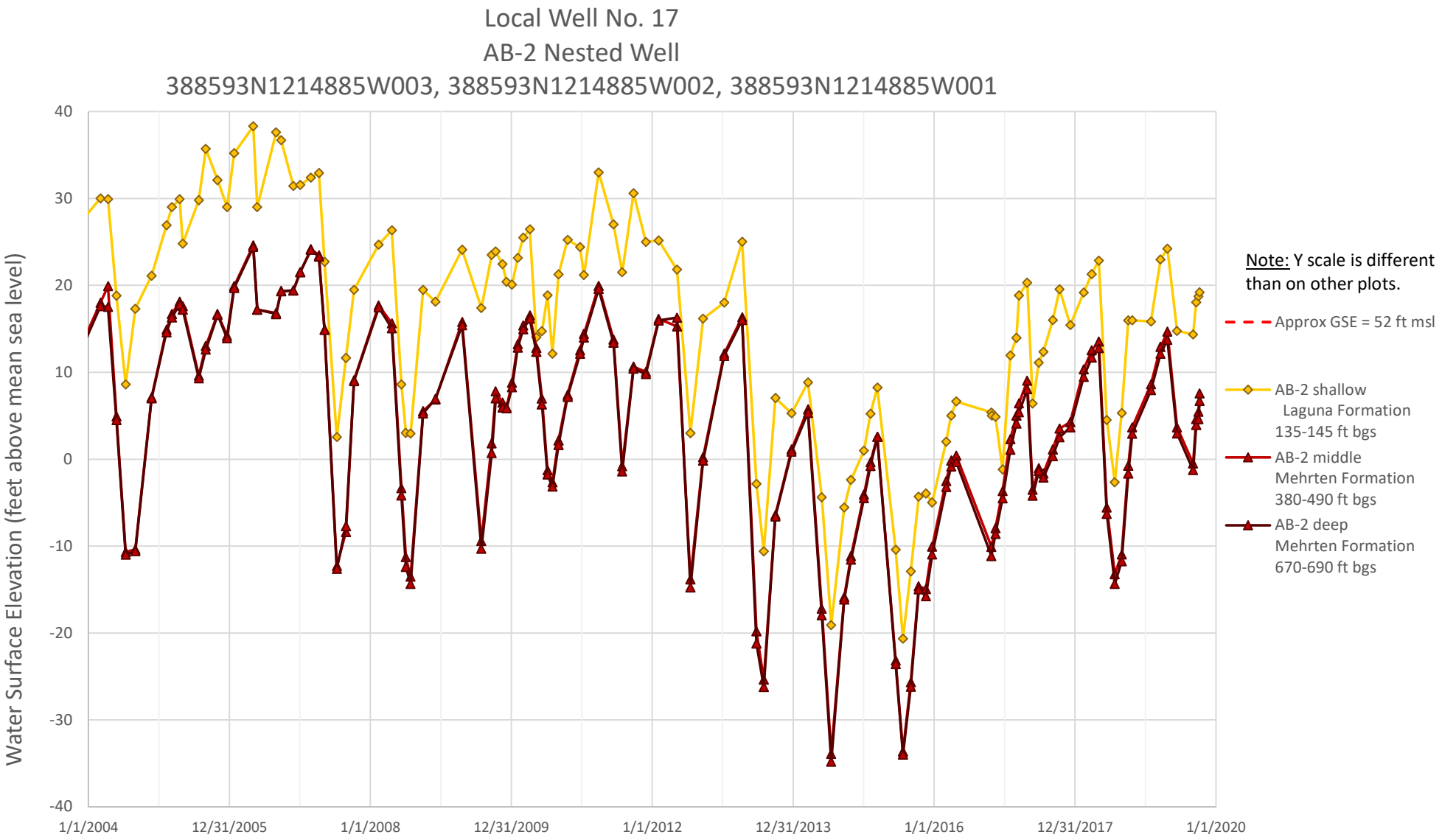


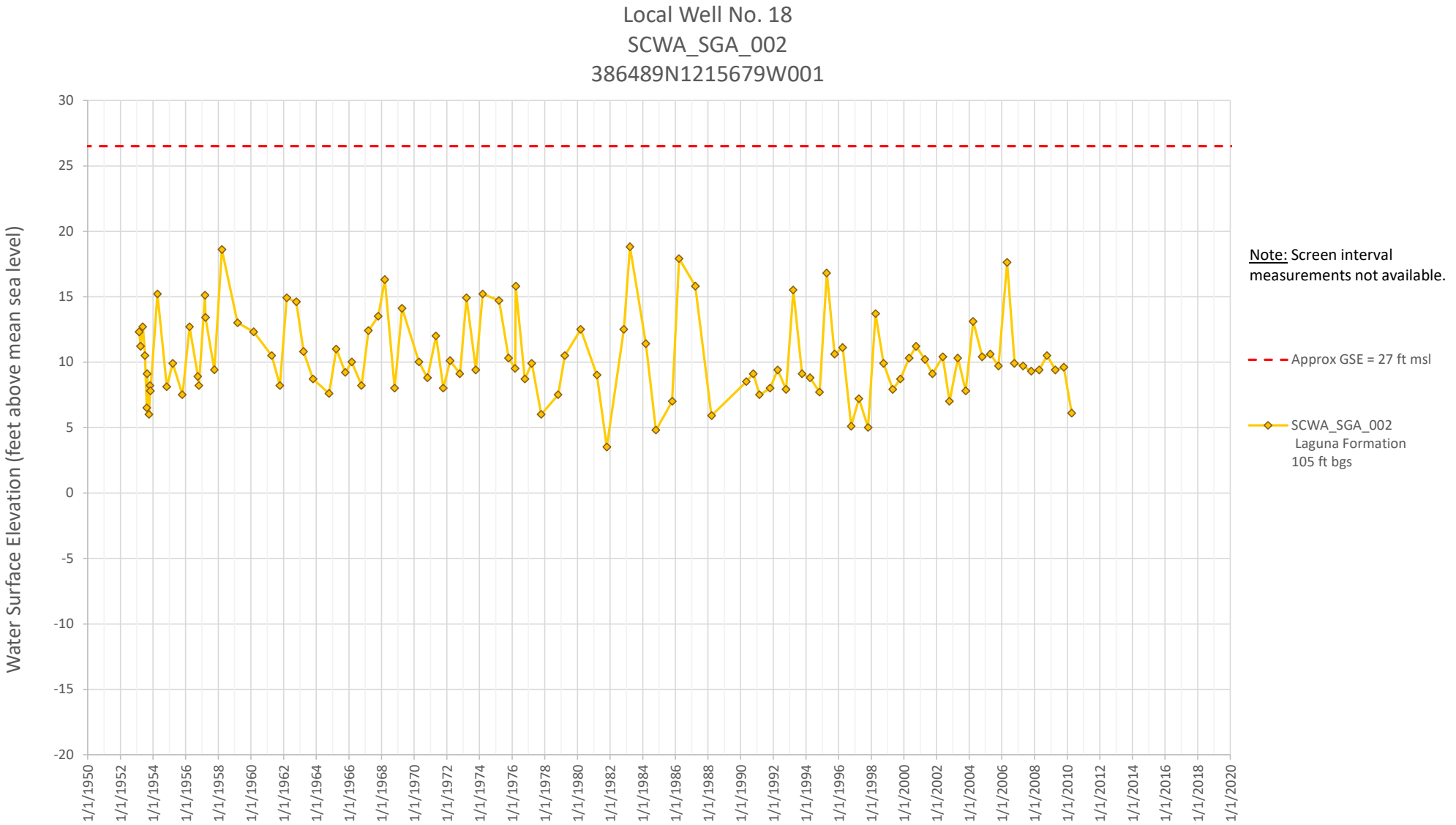
Note: Screen interval measurements not available.

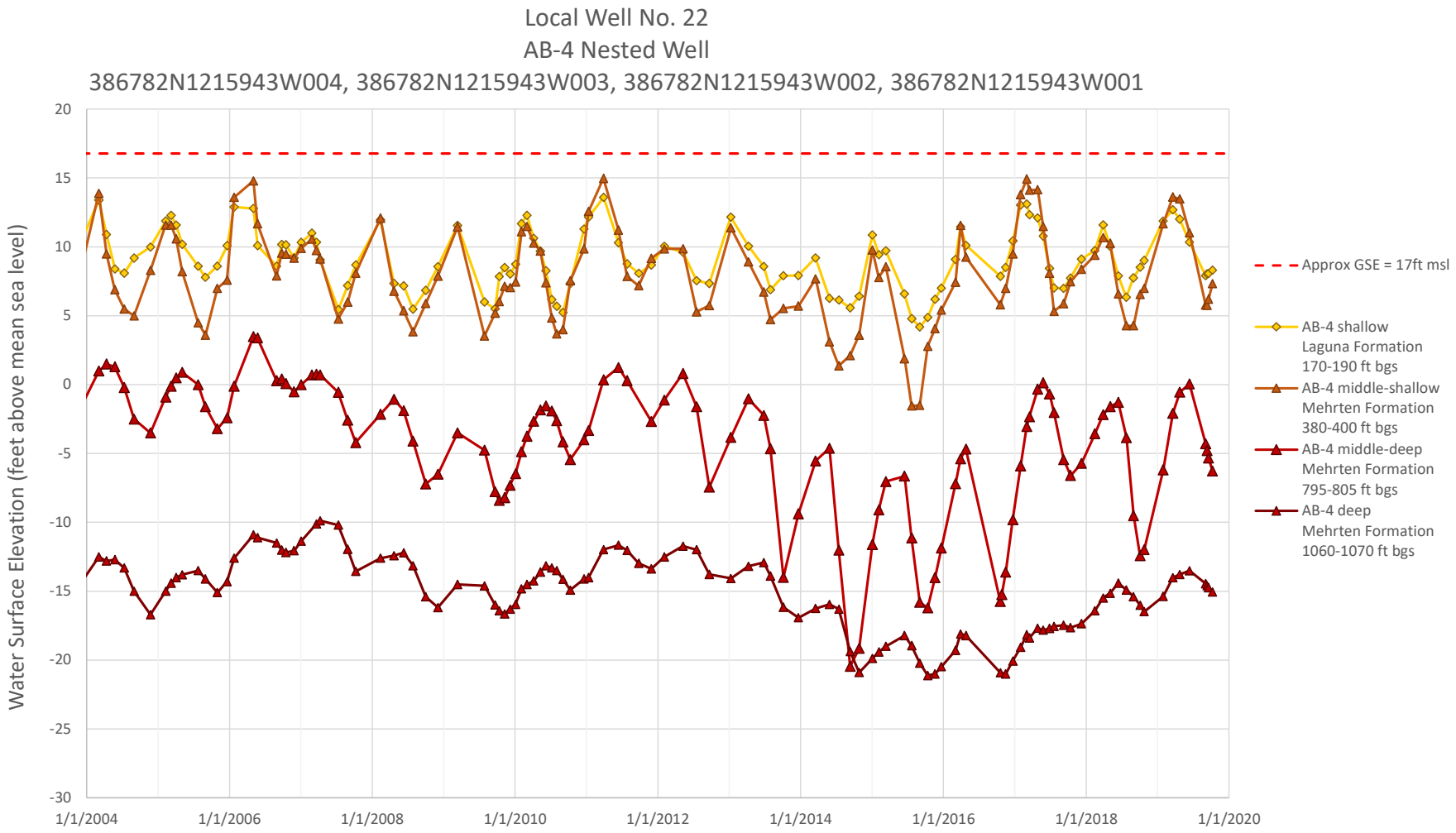
Total depth not available.

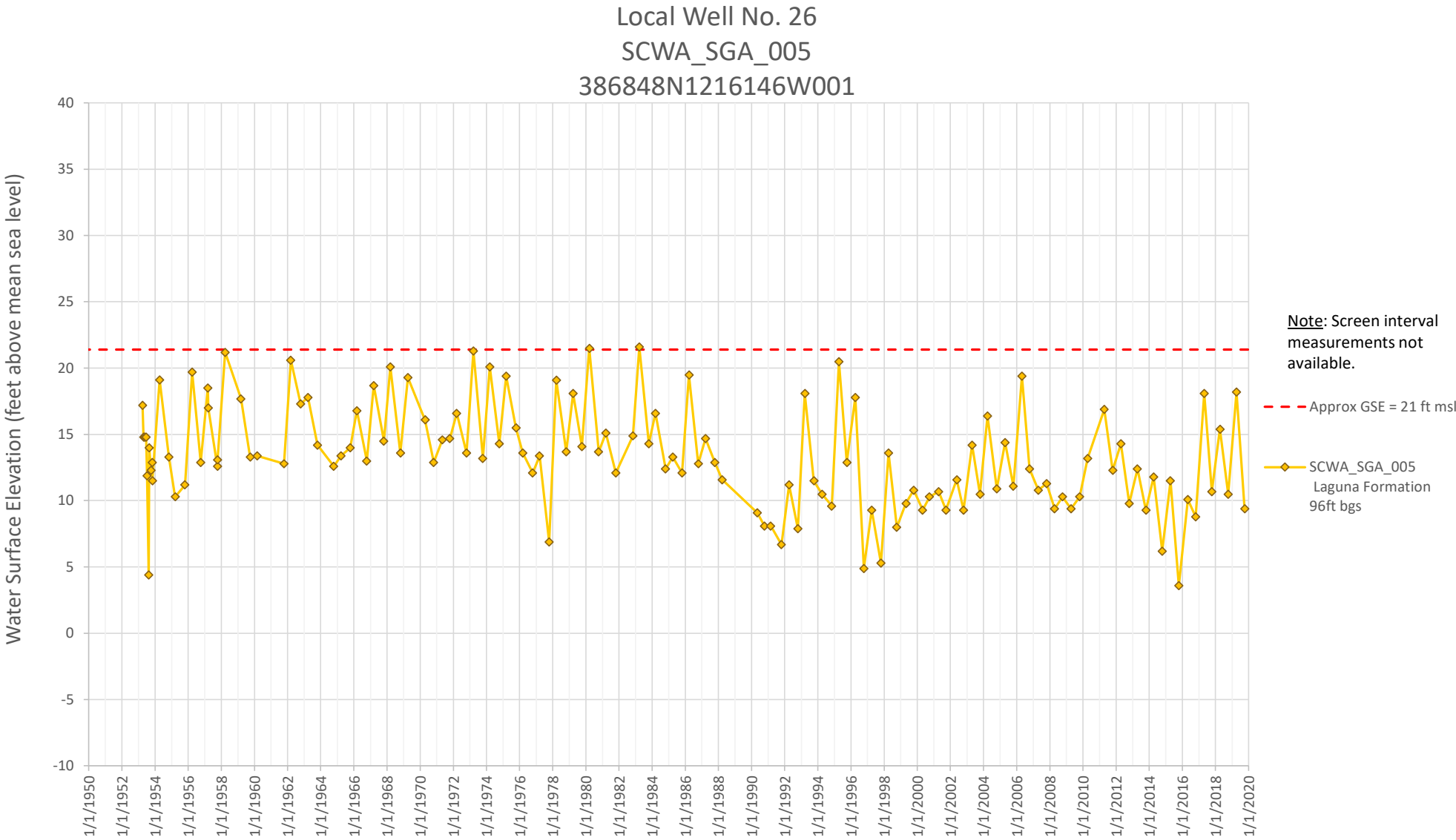

Local Well No. 13
Chuckwagon Park
386292N1214877W001
Water Surface Elevation (feet above mean sea level)
30
25
20
15
10
5
0
-5
-10
-15
-20
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE=13 ft msl
Chuckwagon Park
Laguna Formation
27-37 ft bgs

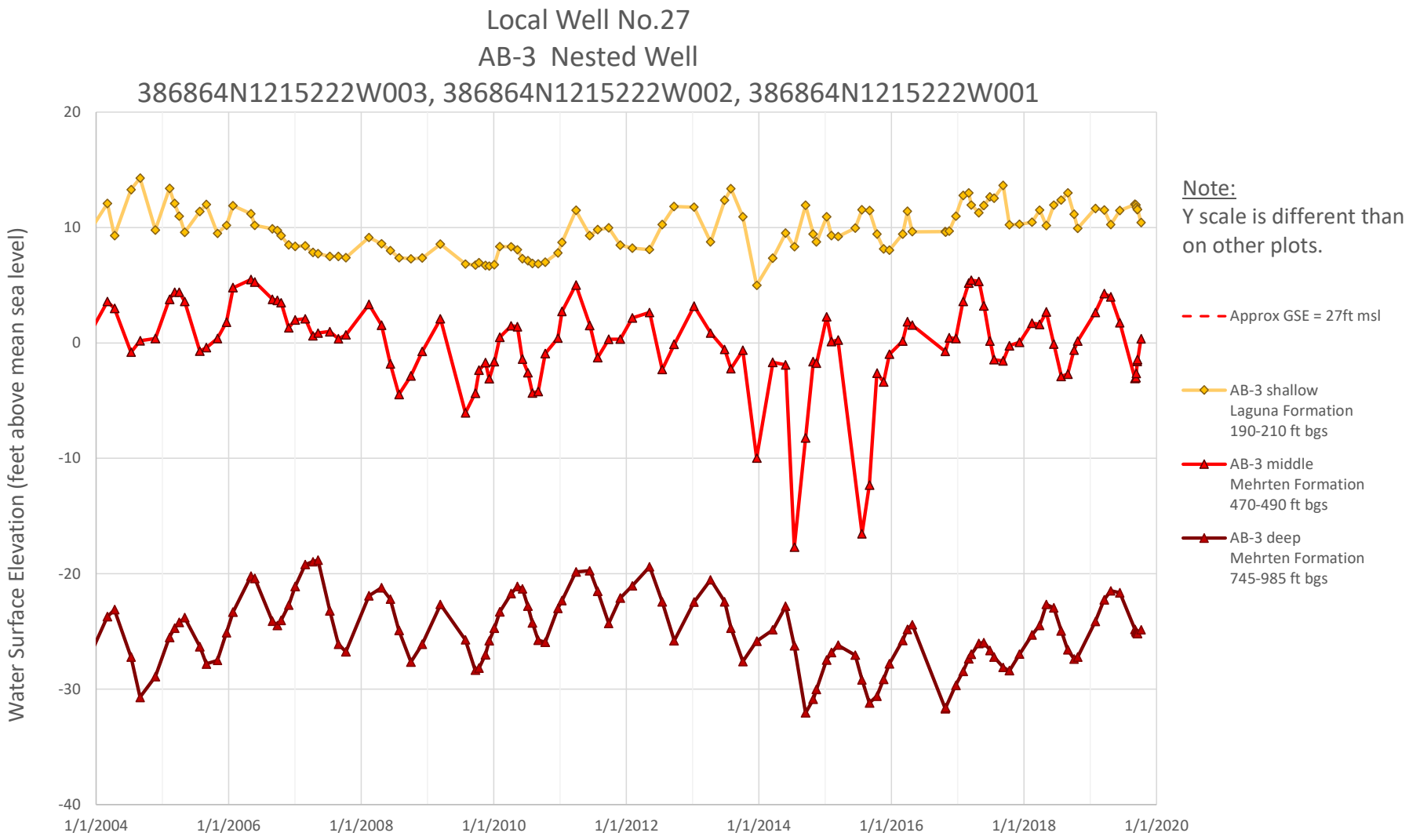

Local Well No. 15
11N04E09D002M
388208N1215397W001
Water Surface Elevation (feet above mean sea level)
45
40
35
30
25
20
15
10
5
0
-5
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurements not available.
Approx GSE = 30 ft msl
11N04E09D002M
Laguna Formation
100ft bgs

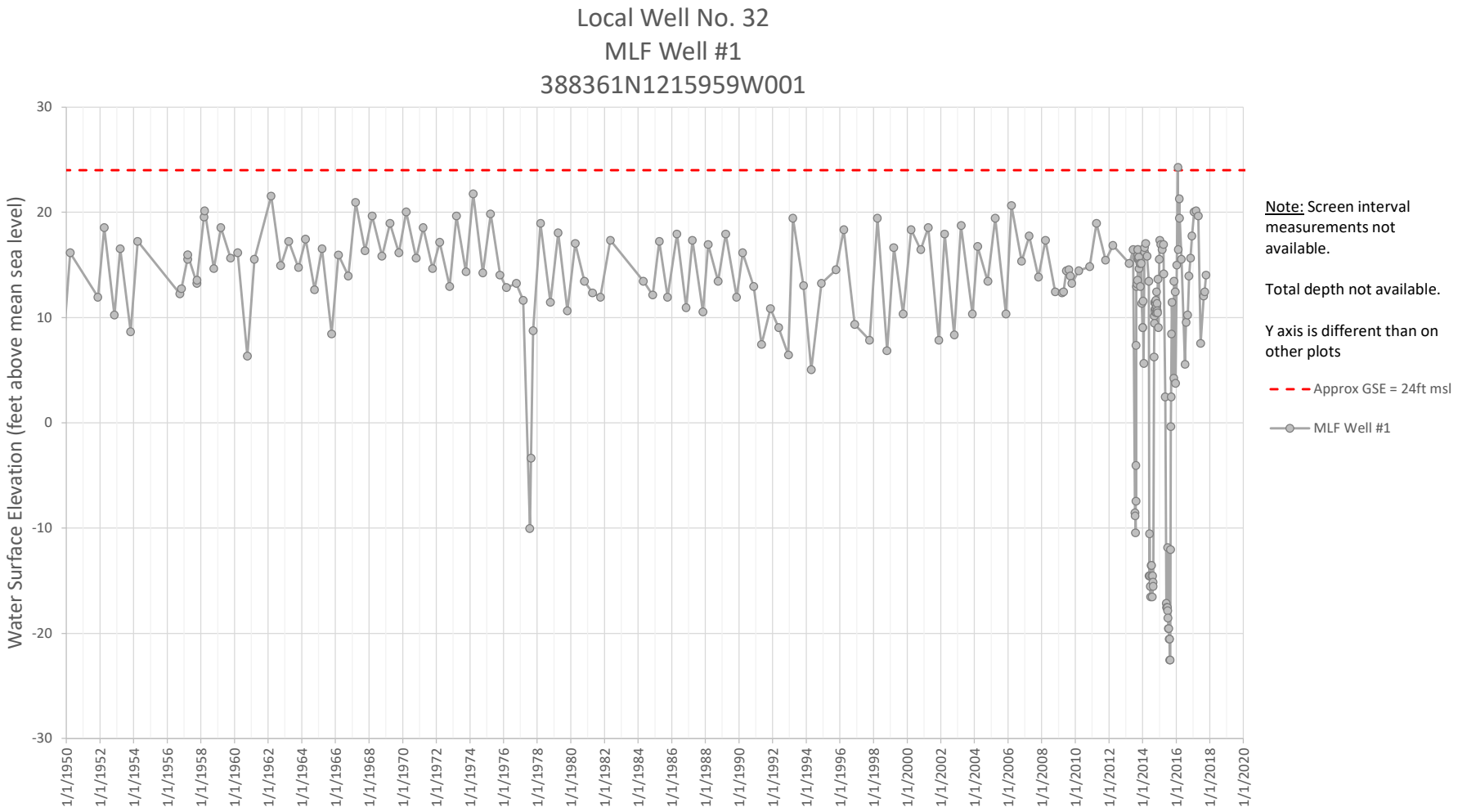

Local Well No. 17
AB-2 Nested Well
388593N1214885W003, 388593N1214885W002, 388593N1214885W001
Water Surface Elevation (feet above mean sea level)
40
30
20
10
0
-10
-20
-30
-40
1/1/2004
12/31/2005
1/1/2008
12/31/2009
1/1/2012
12/31/2013
1/1/2016
12/31/2017
1/1/2020
Note: Y scale is different than on other plots.
Approx GSE = 52 ft msl
AB-2 shallow Laguna Formation 135-145 ft bgs
AB-2 middle Mehrten Formation 380-490 ft bgs
AB-2 deep Mehrten Formation 670-690 ft bgs

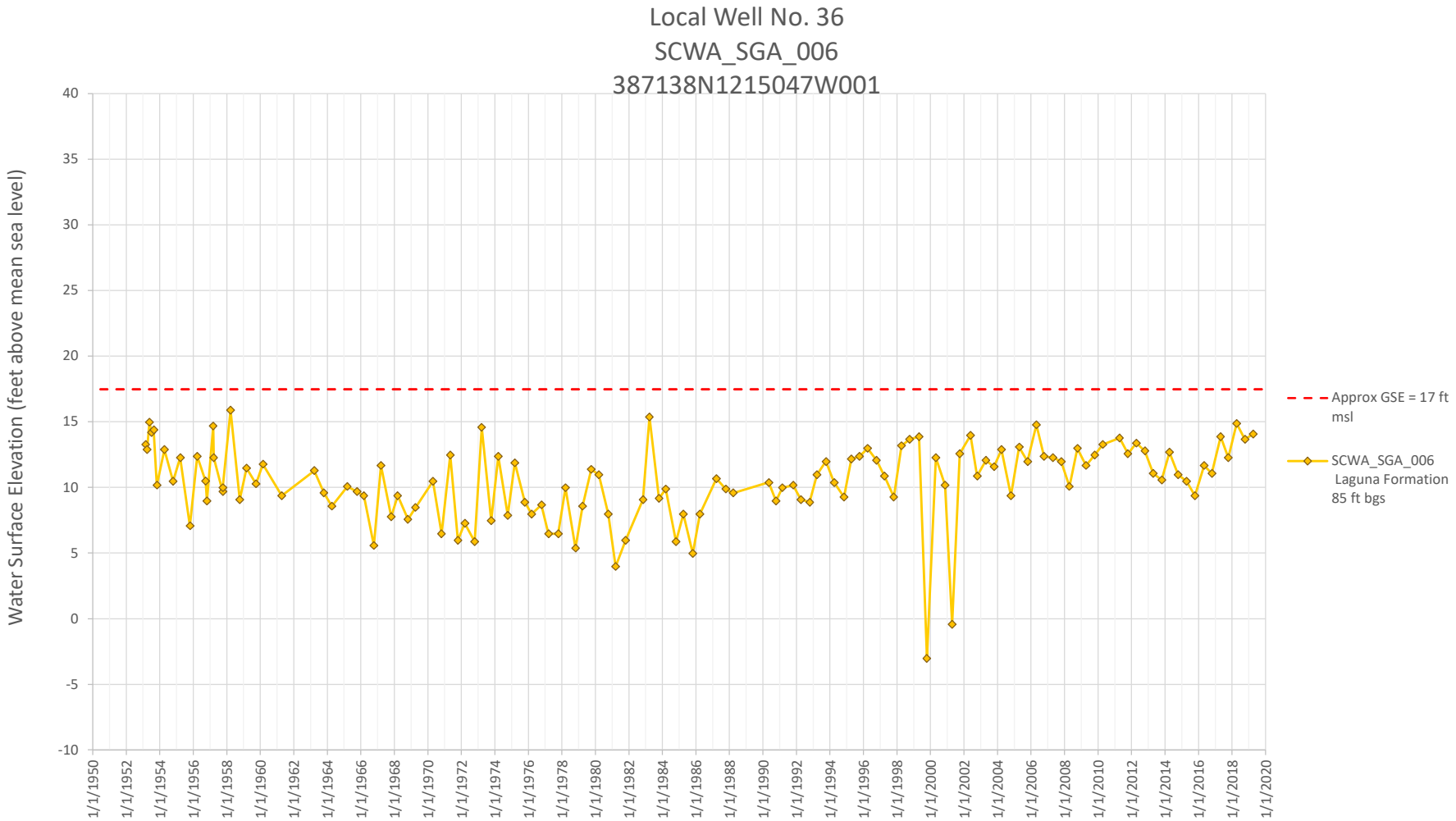

Local Well No. 18
SCWA_SGA_002
386489N1215679W001
Water Surface Elevation (feet above mean sea level)
30
25
20
15
10
5
0
-5
-10
-15
-20
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurements not available.
Approx GSE = 27 ft msl
SCWA_SGA_002
Laguna Formation
105 ft bgs

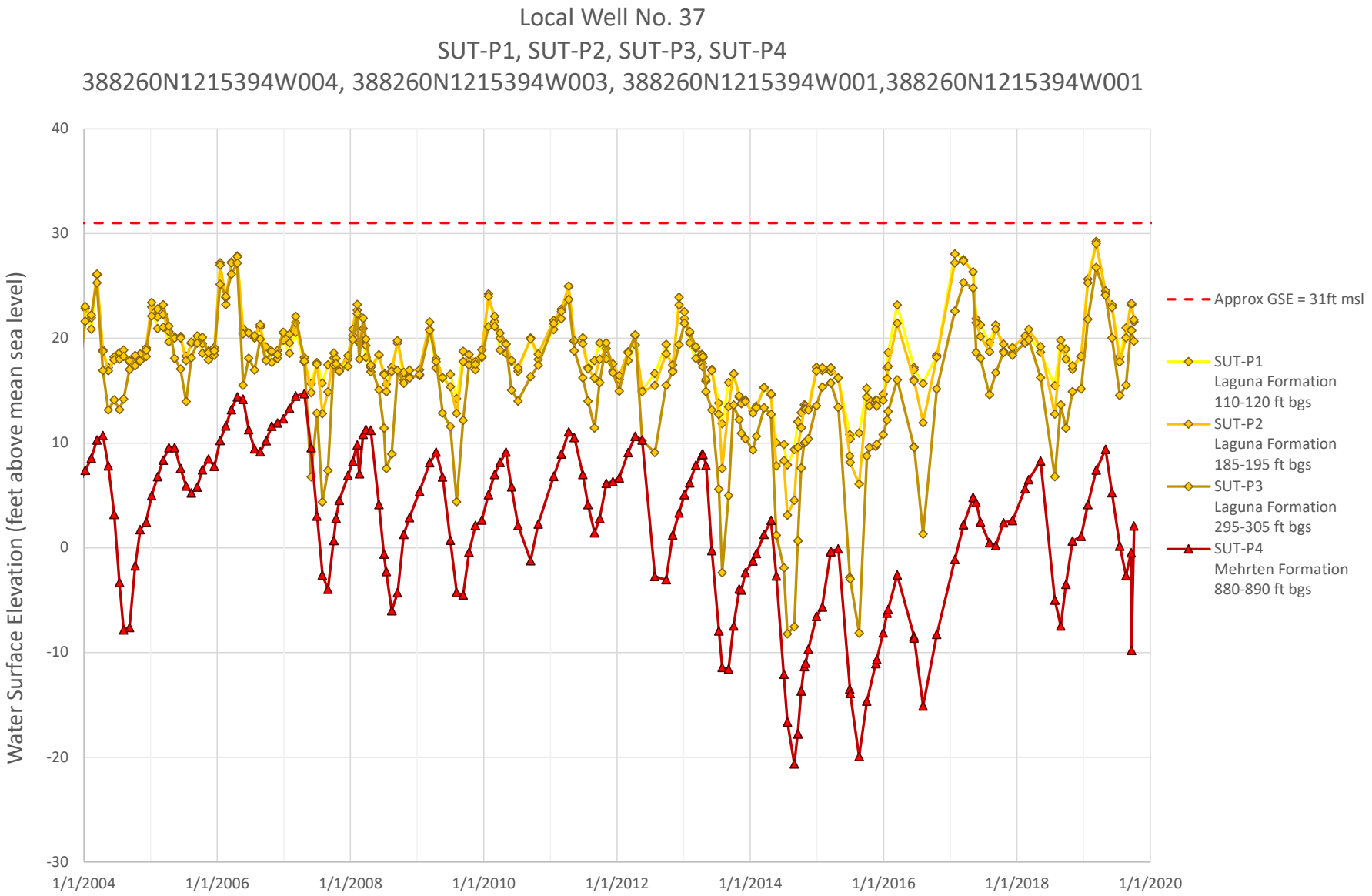

Local Well No. 22
AB-4 Nested Well
386782N1215943W004, 386782N1215943W003, 386782N1215943W002, 386782N1215943W001
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 17ft msl
AB-4 shallow
Laguna Formation
170-190 ft bgs
AB-4 middle-shallow
Mehrten Formation
380-400 ft bgs
AB-4 middle-deep
Mehrten Formation
795-805 ft bgs
AB-4 deep
Mehrten Formation
1060-1070 ft bgs


Local Well No. 26
SCWA_SGA_005
386848N1216146W001
Water Surface Elevation (feet above mean sea level)
40
35
30
25
20
15
10
5
0
-5
-10
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurements not available.
Approx GSE = 21 ft msl
SCWA_SGA_005
Laguna Formation
96ft bgs

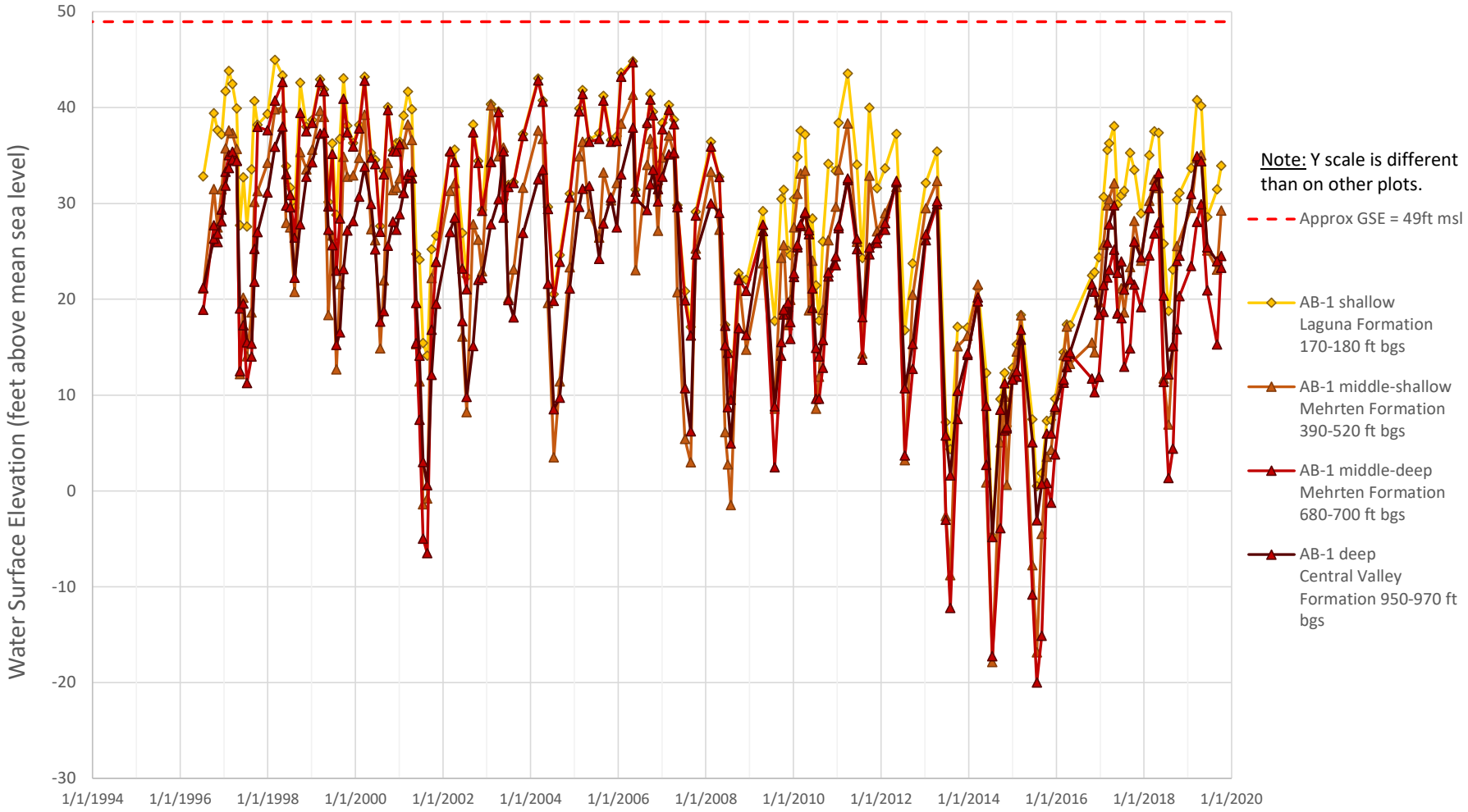

Local Well No.27
AB-3 Nested Well
386864N1215222W003, 386864N1215222W002, 386864N1215222W001
Water Surface Elevation (feet above mean sea level)
20
10
0
-10
-20
-30
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note:
Y scale is different than on other plots.
Approx GSE = 27ft msl
AB-3 shallow
Laguna Formation
190-210 ft bgs
AB-3 middle
Mehrten Formation
470-490 ft bgs
AB-3 deep
Mehrten Formation
745-985 ft bgs

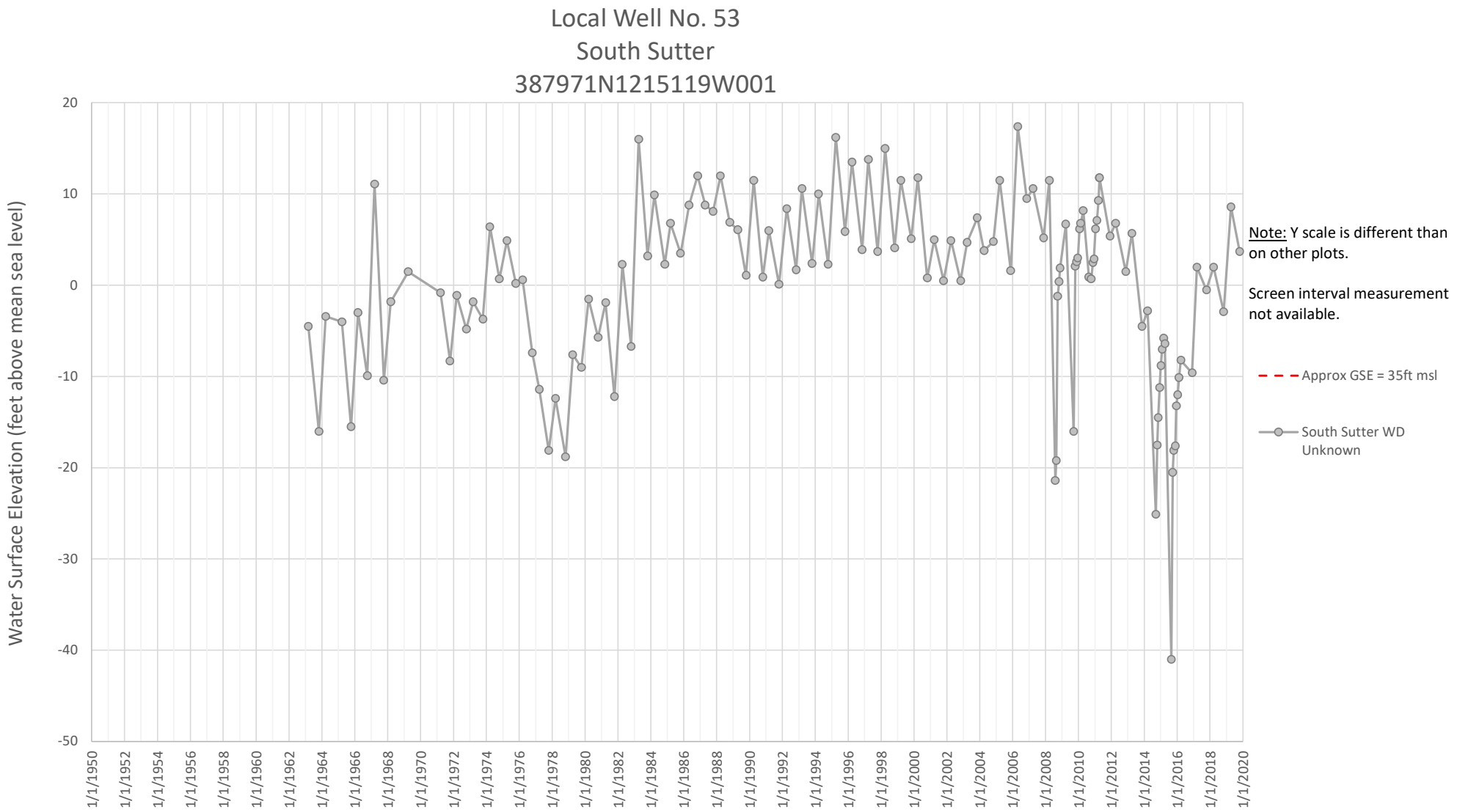

Local Well No. 32
MLF Well #1
388361N1215959W001
Water Surface Elevation (feet above mean sea level)
30
20
10
0
-10
-20
-30
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurements not available.
Total depth not available.
Y axis is different than on other plots
Approx GSE = 24ft msl
MLF Well #1


Local Well No. 36
SCWA_SGA_006
387138N1215047W001
Water Surface Elevation (feet above mean sea level)
40
35
30
25
20
15
10
5
0
-5
-10
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 17 ft msl
SCWA_SGA_006
Laguna Formation
85 ft bgs

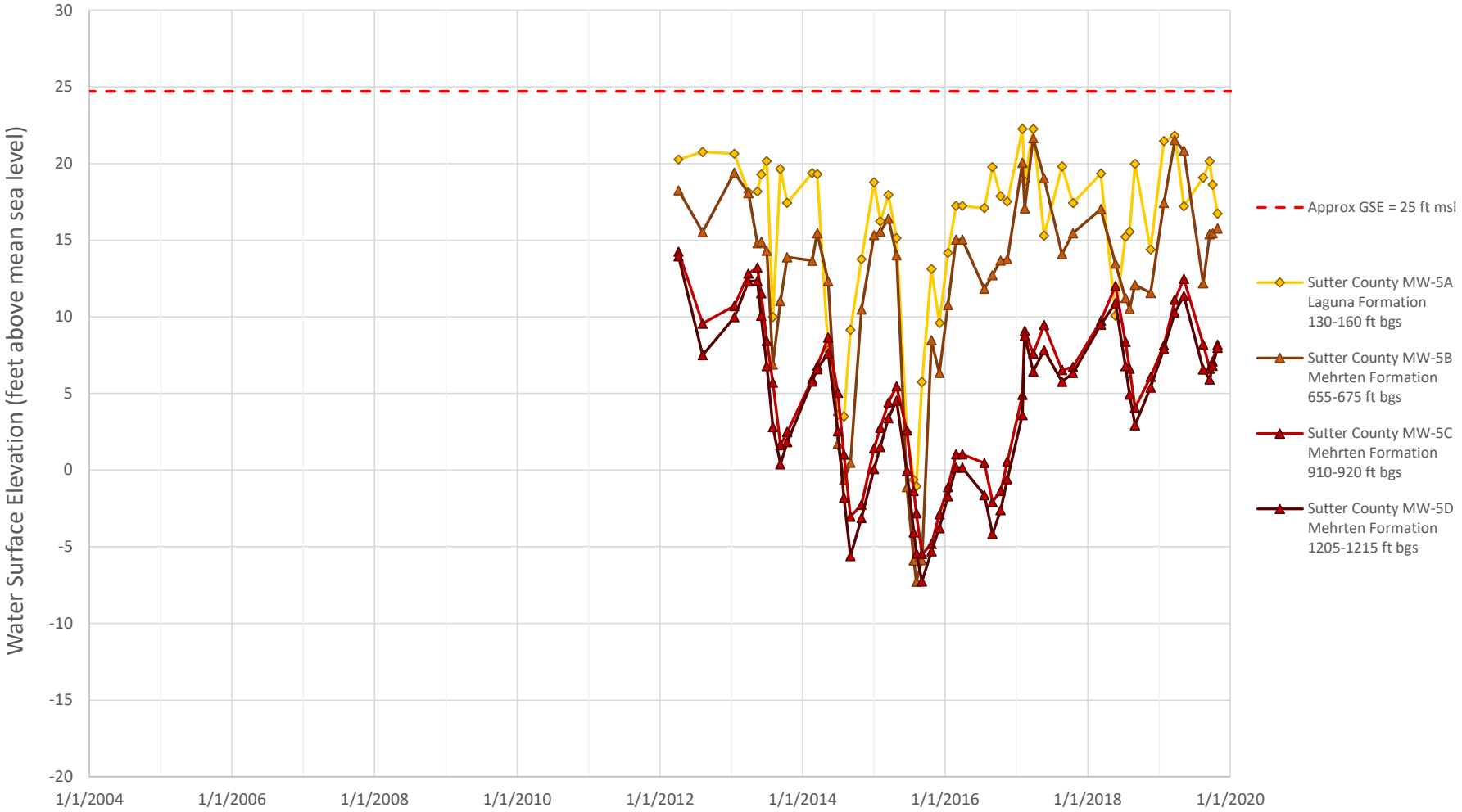

Local Well No. 37
SUT-P1, SUT-P2, SUT-P3, SUT-P4
388260N1215394W004, 388260N1215394W003, 388260N1215394W001,388260N1215394W001
Water Surface Elevation (feet above mean sea level)
40
30
20
10
0
-10
-20
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 31ft msl
SUT-P1
Laguna Formation
110-120 ft bgs
SUT-P2
Laguna Formation
185-195 ft bgs
SUT-P3
Laguna Formation
295-305 ft bgs
SUT-P4
Mehrten Formation
880-890 ft bgs

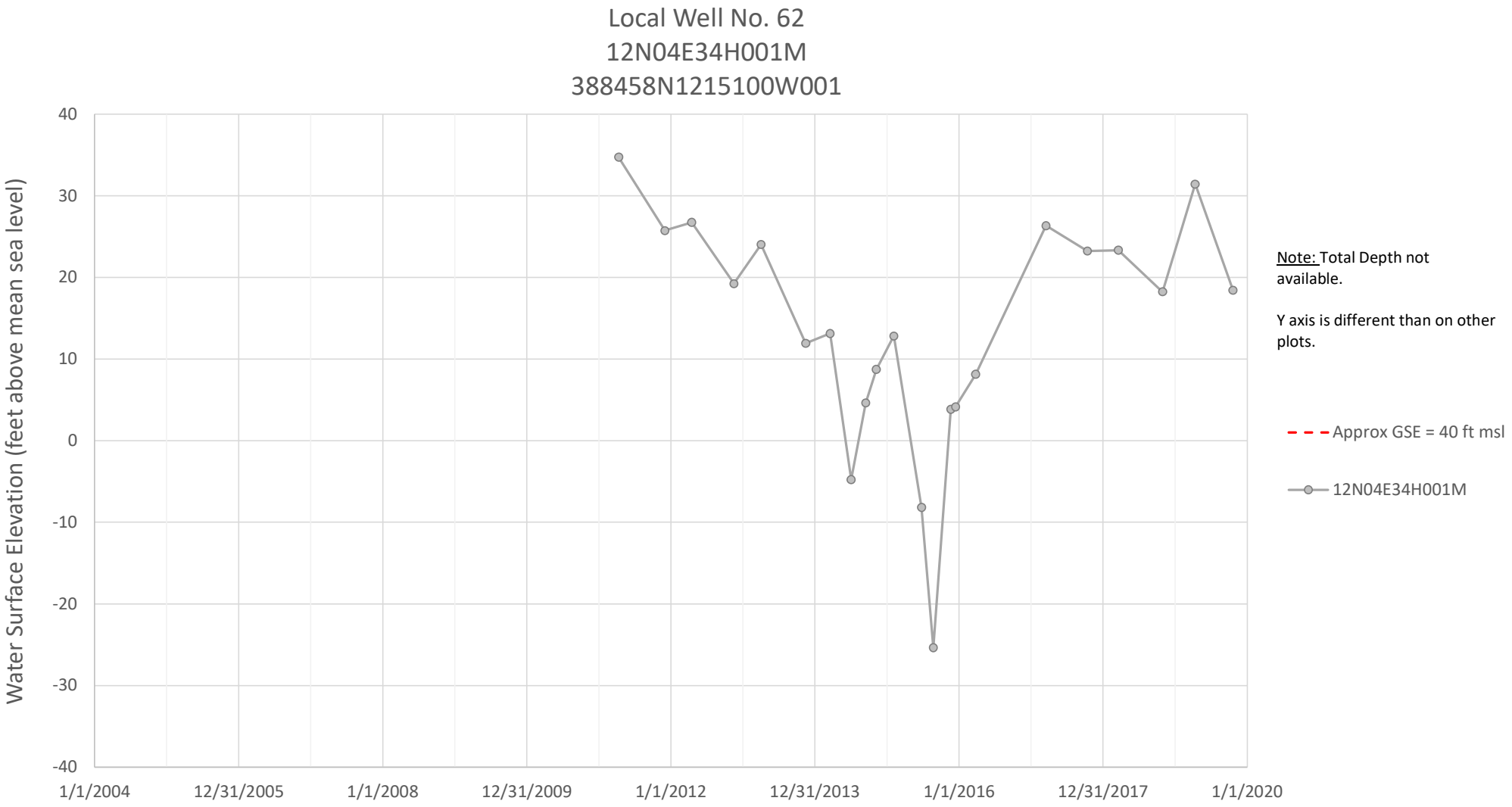
Local Well No. 39
AB-1 Nested Well
389116N1215238W003, 389117N1215238W001, 389116N1215238W002, 389116N1215238W001

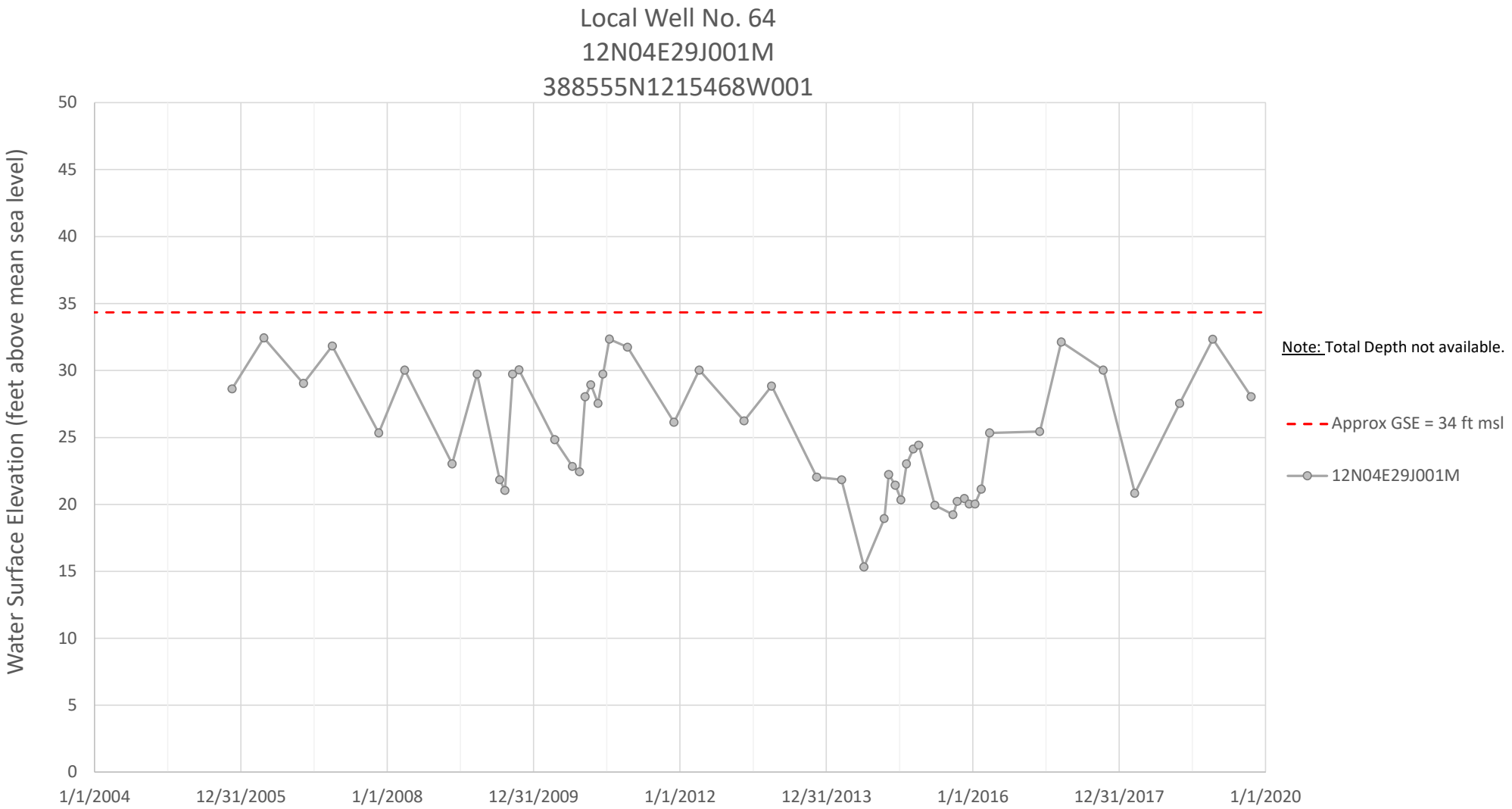


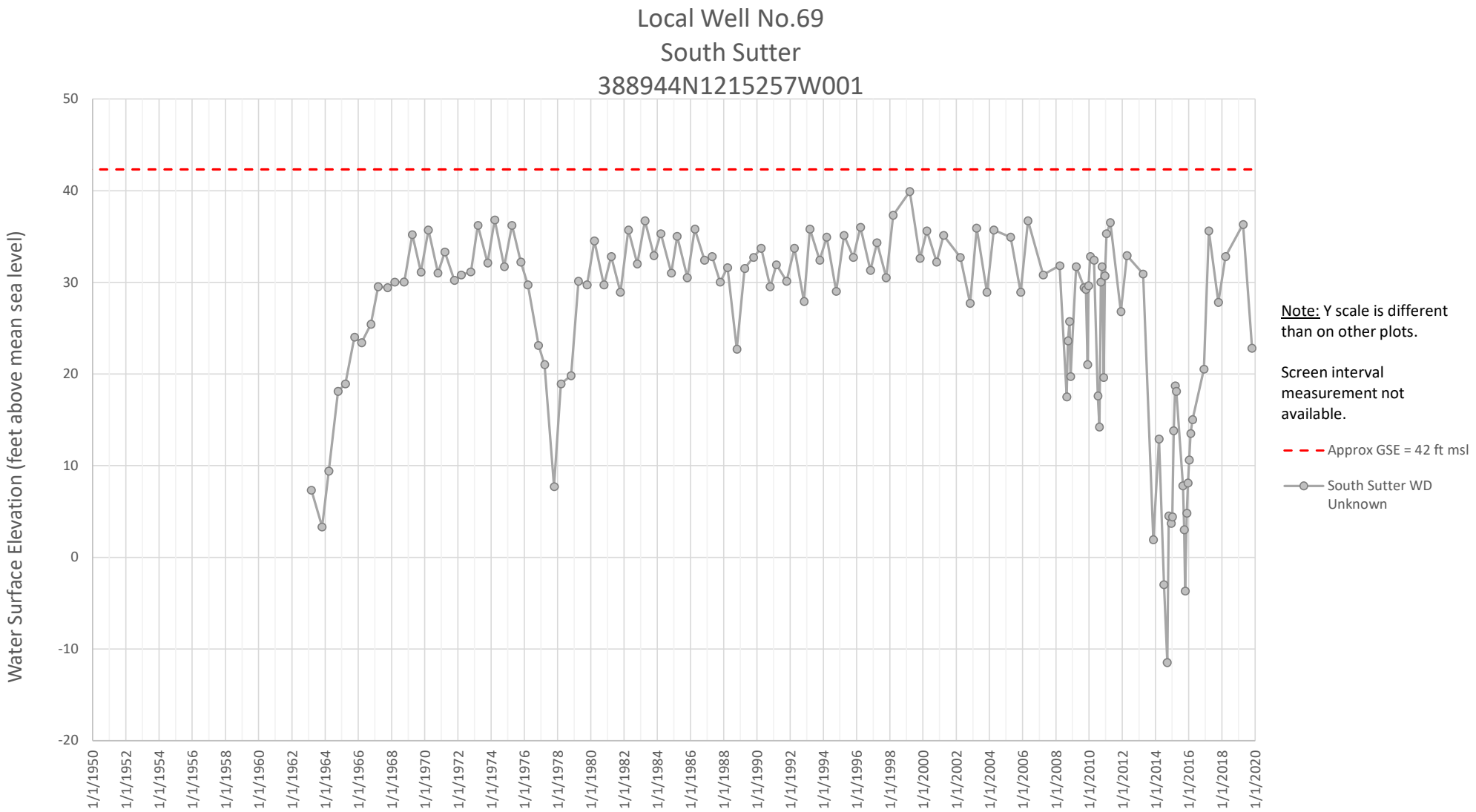

Local Well No. 53
South Sutter
387971N1215119W001
Water Surface Elevation (feet above mean sea level)
20
10
0
-10
-20
-30
-40
-50
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurement not available.
Approx GSE = 35ft msl
South Sutter WD Unknown

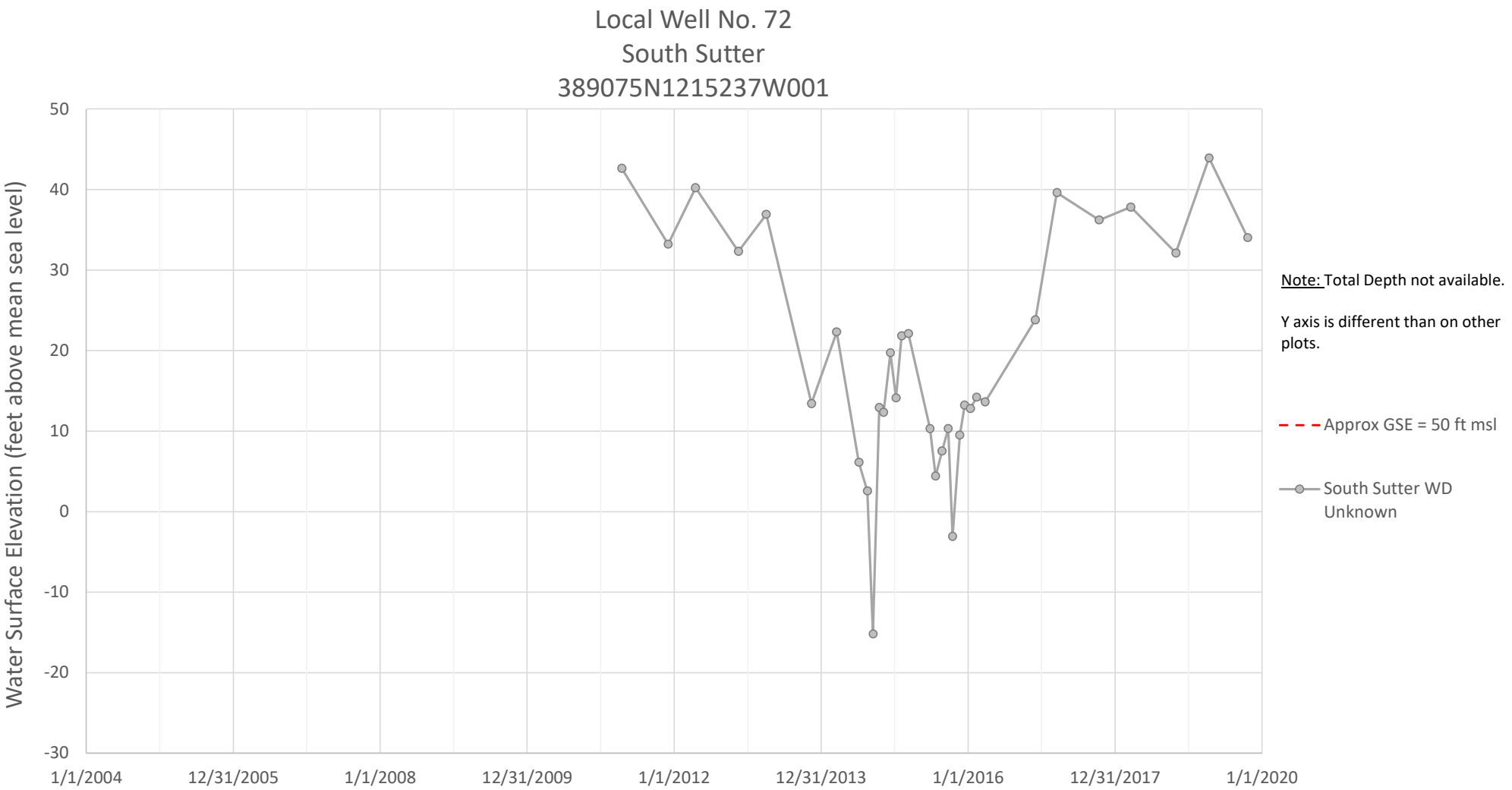
Local Well No. 61
Sutter County MW-5 Nested Well
388235N1216079W001, 388235N1216079W002, 388235N1216079W003, 388235N1216079W004

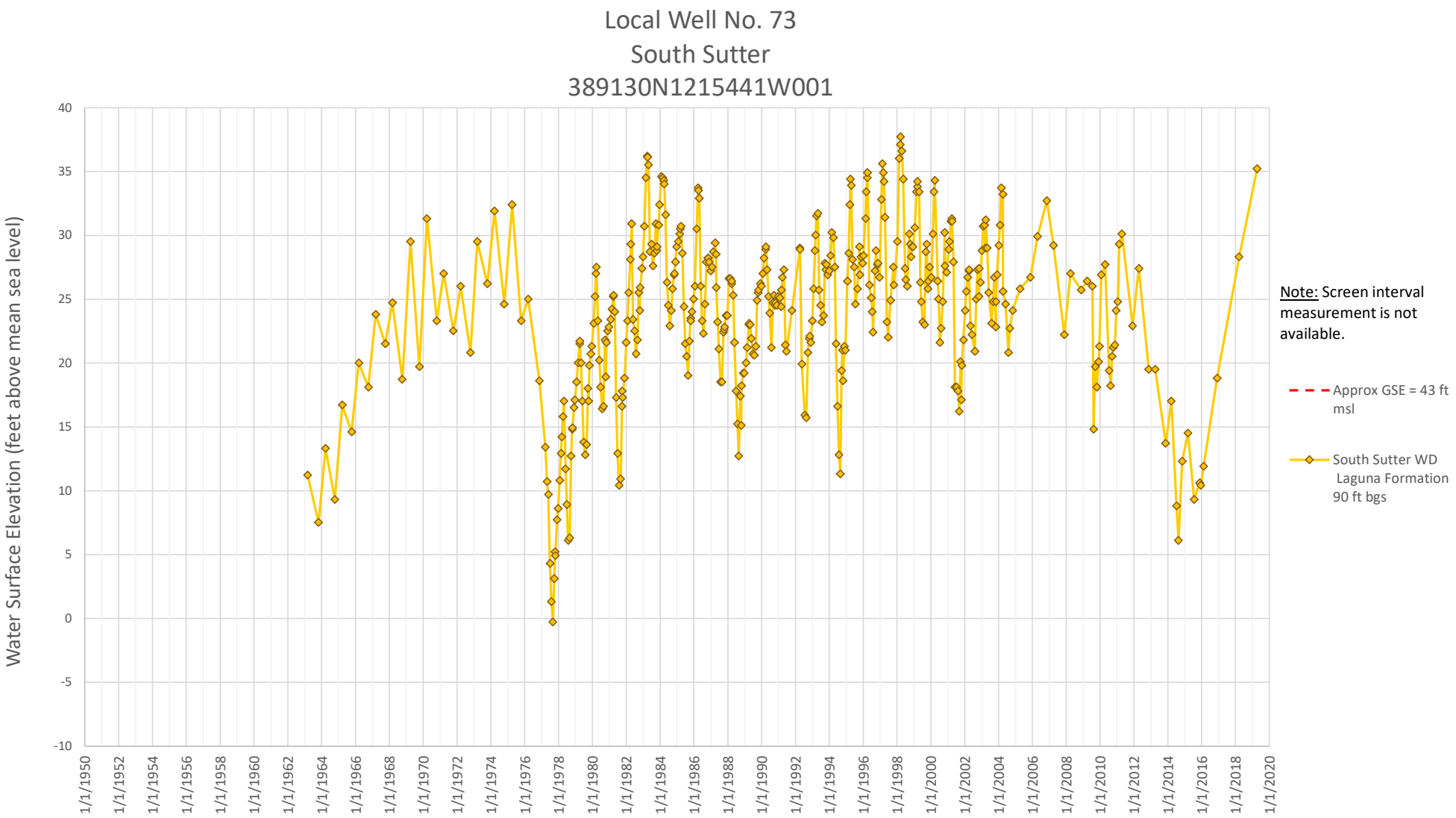


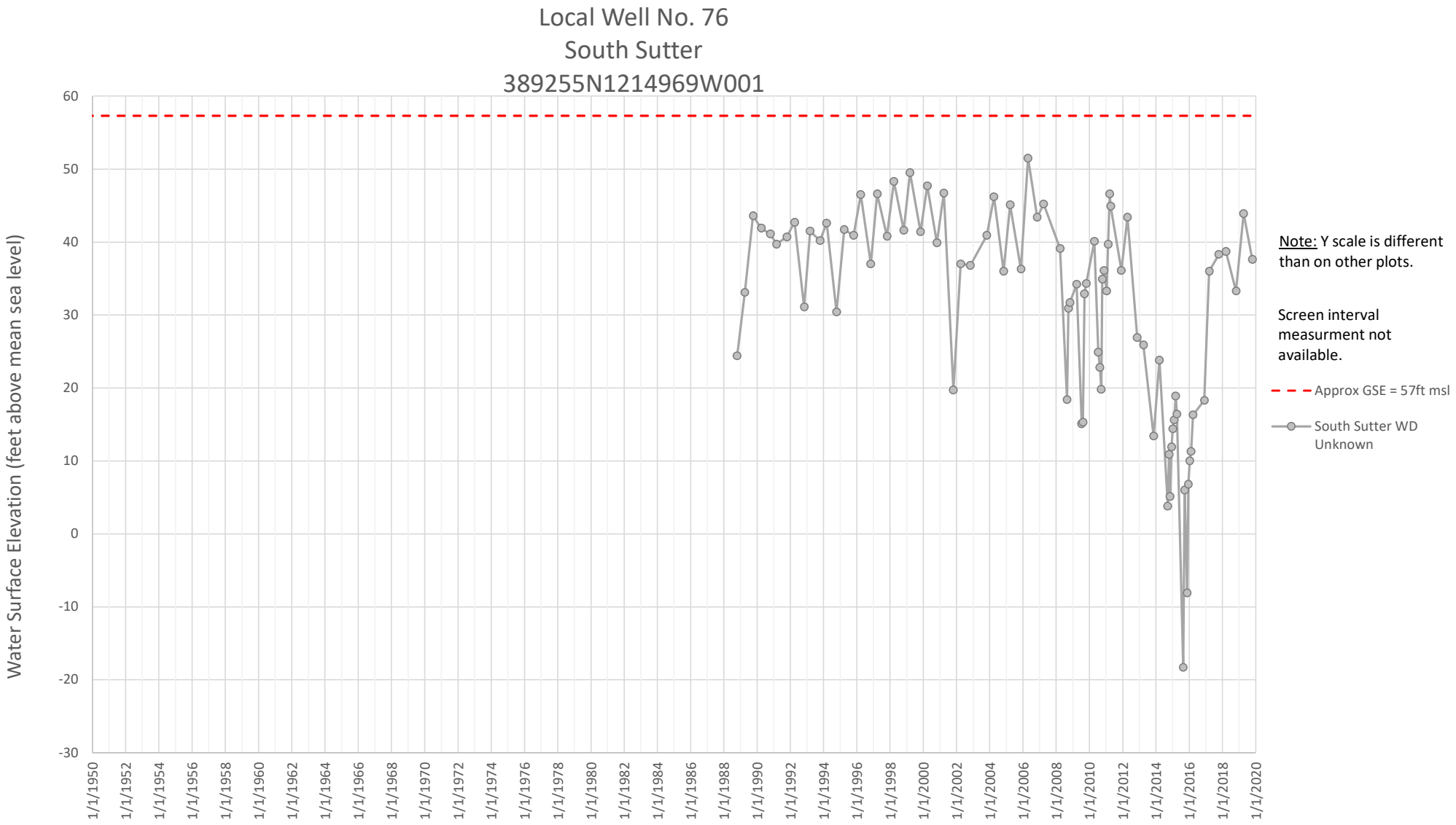

Local Well No. 62
12N04E34H001M
388458N1215100W001
Water Surface Elevation (feet above mean sea level)
40
30
20
10
0
-10
-20
-30
-40
1/1/2004
12/31/2005
1/1/2008
12/31/2009
1/1/2012
12/31/2013
1/1/2016
12/31/2017
1/1/2020
Note: Total Depth not available.
Y axis is different than on other plots.
Approx GSE = 40 ft msl
12N04E34H001M

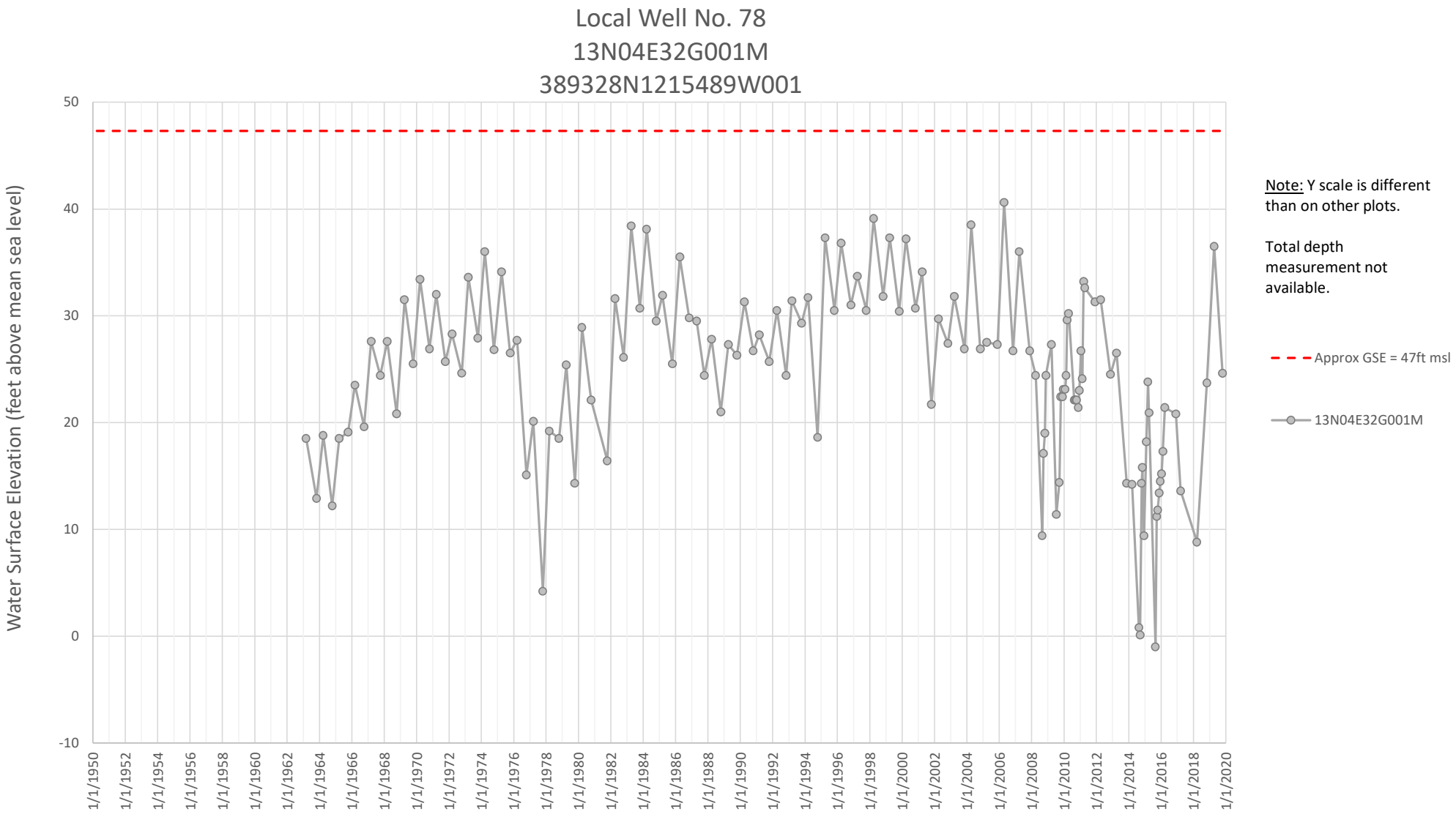

Local Well No. 64
12N04E29J001M
388555N1215468W001
Water Surface Elevation (feet above mean sea level)
50
45
40
35
30
25
20
15
10
5
0
1/1/2004
12/31/2005
1/1/2008
12/31/2009
1/1/2012
12/31/2013
1/1/2016
12/31/2017
1/1/2020
Note: Total Depth not available.
Approx GSE = 34 ft msl
12N04E29J001M

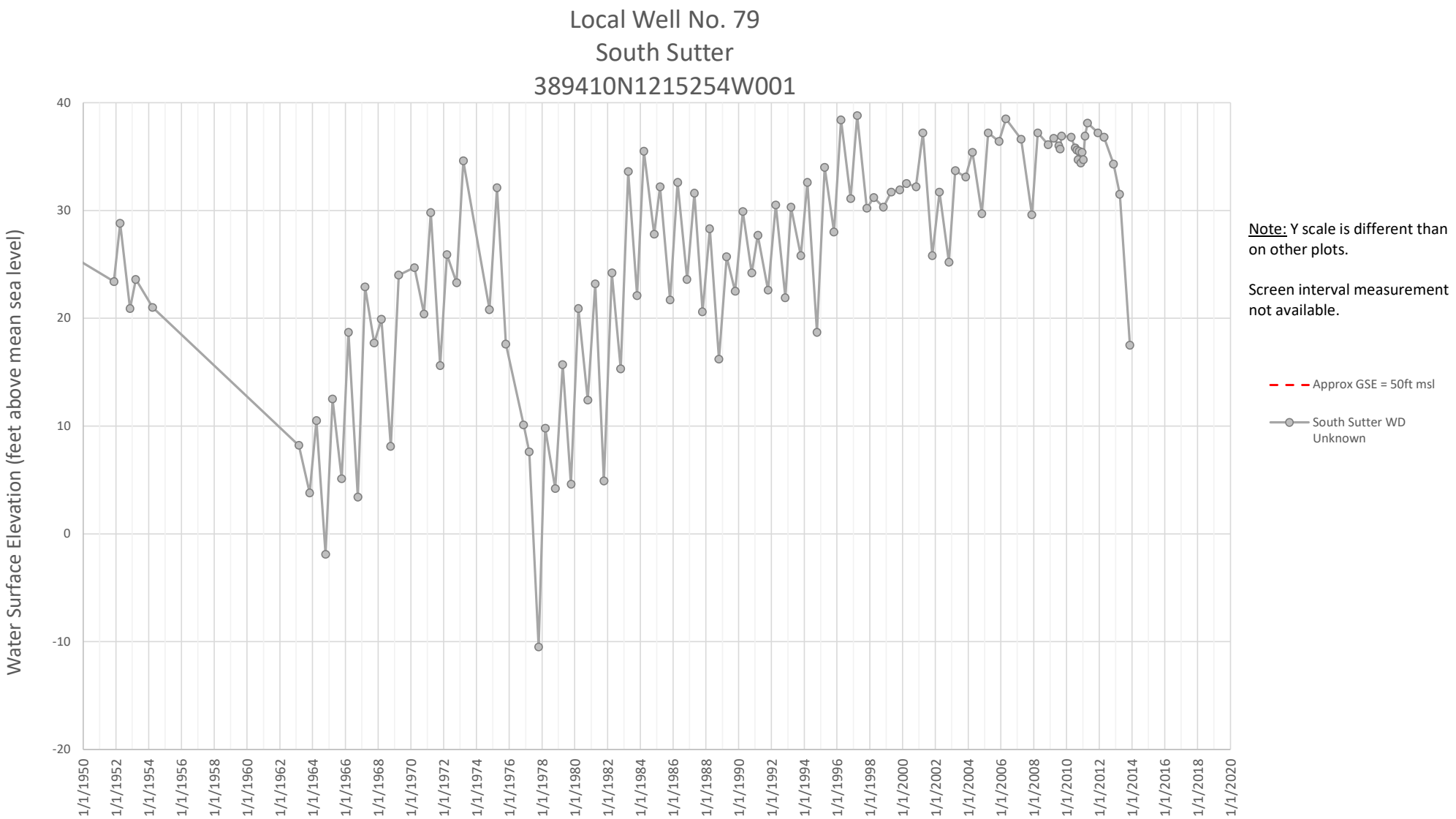

Local Well No.69
South Sutter
388944N1215257W001
Water Surface Elevation (feet above mean sea level)
50
40
30
20
10
0
-10
-20
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurement not available.
Approx GSE = 42 ft msl
South Sutter WD Unknown

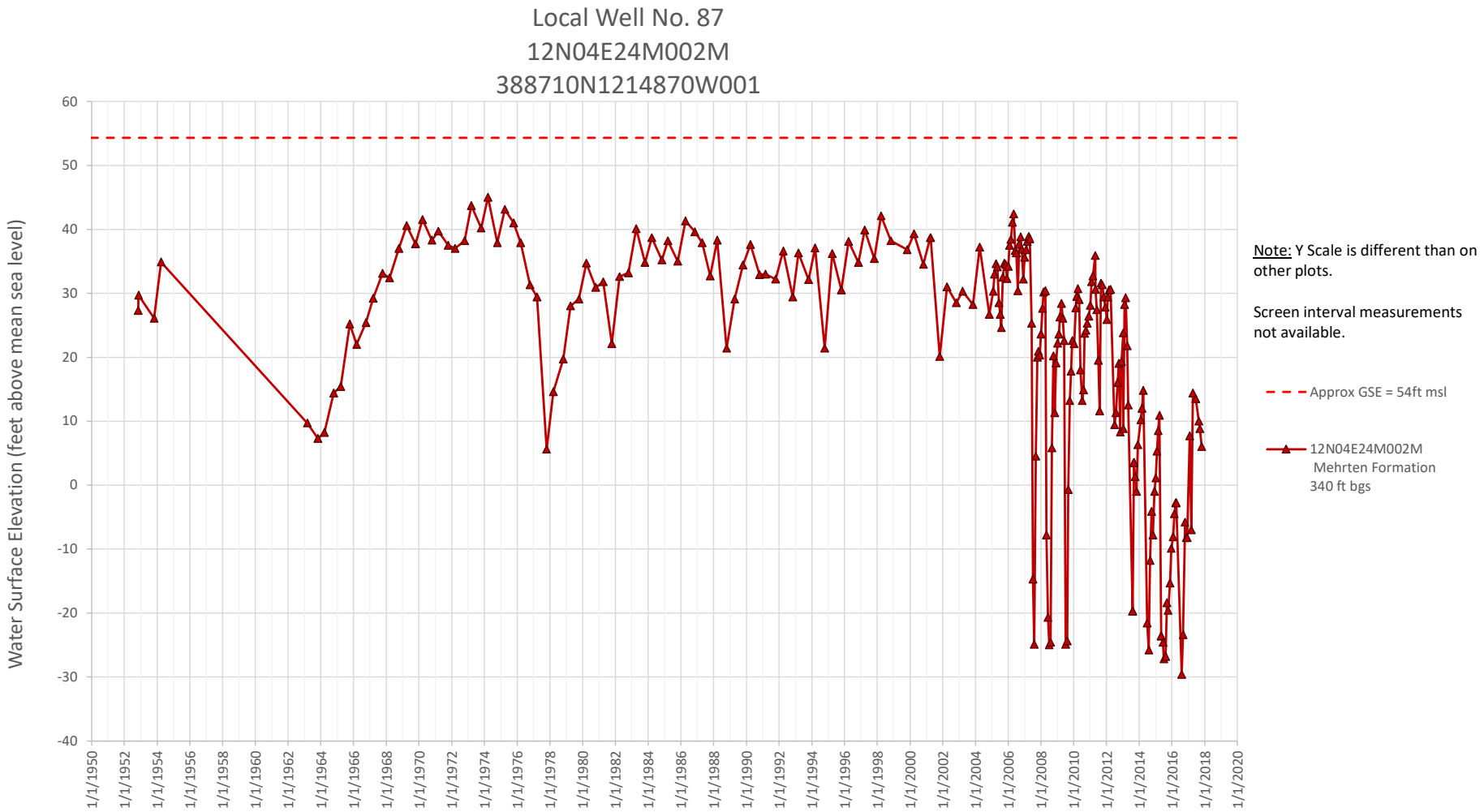

Local Well No. 72
South Sutter
389075N1215237W001
Water Surface Elevation (feet above mean sea level)
50
40
30
20
10
0
-10
-20
-30
1/1/2004
12/31/2005
1/1/2008
12/31/2009
1/1/2012
12/31/2013
1/1/2016
12/31/2017
1/1/2020
Note: Total Depth not available.
Y axis is different than on other plots.
Approx GSE = 50 ft msl
South Sutter WD
Unknown


Local Well No. 73
South Sutter
389130N1215441W001
Water Surface Elevation (feet above mean sea level)
40
35
30
25
20
15
10
5
0
-5
-10
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurement is not available.
Approx GSE = 43 ft msl
South Sutter WD Laguna Formation 90 ft bgs

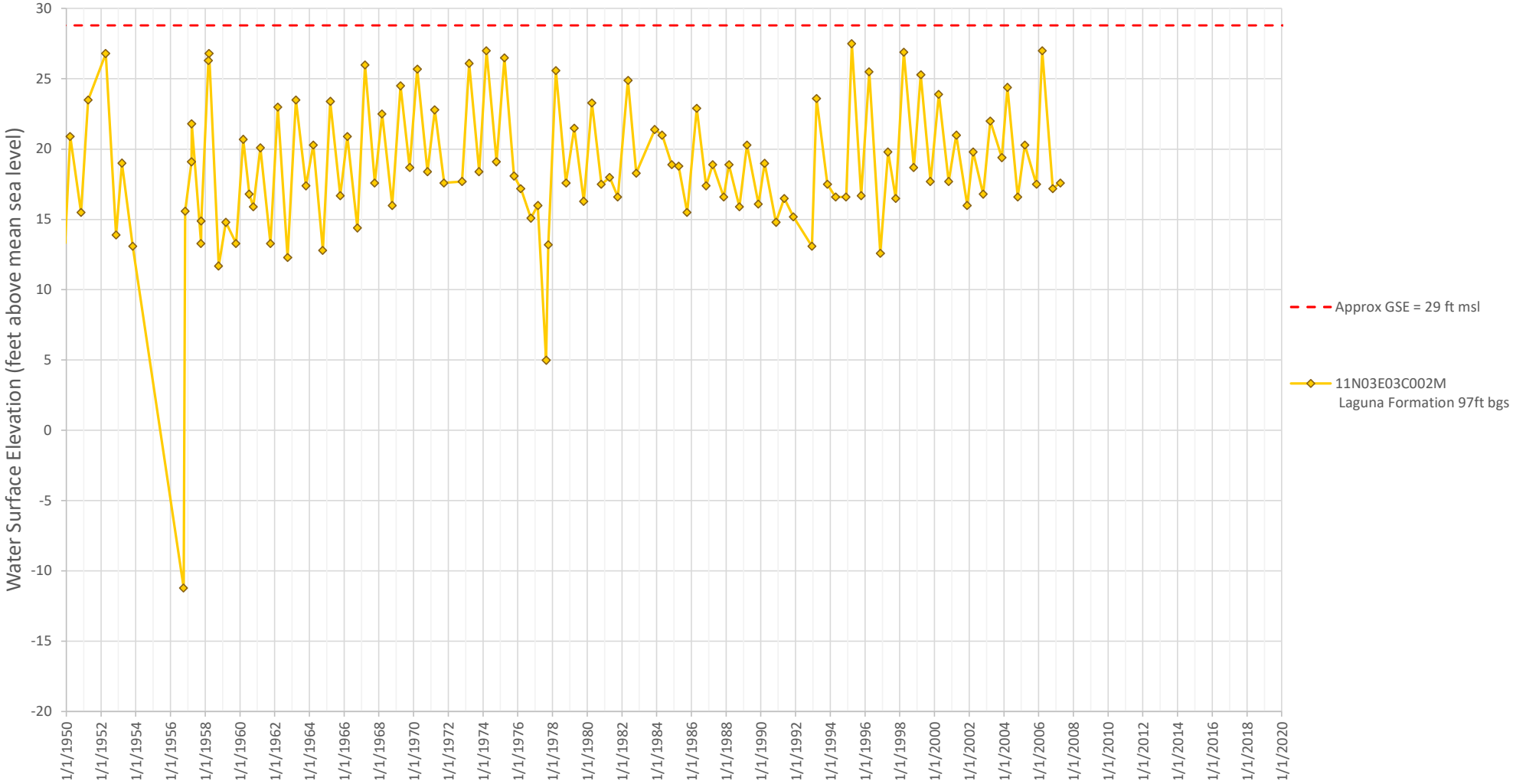

Local Well No. 76
South Sutter
389255N1214969W001
Water Surface Elevation (feet above mean sea level)
60
50
40
30
20
10
0
-10
-20
-30
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurment not available.
Approx GSE = 57ft msl
South Sutter WD Unknown


Local Well No. 78
13N04E32G001M
389328N1215489W001
Water Surface Elevation (feet above mean sea level)
50
40
30
20
10
0
-10
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Total depth measurement not available.
Approx GSE = 47ft msl
13N04E32G001M


Local Well No. 79
South Sutter
389410N1215254W001
Water Surface Elevation (feet above mean sea level)
40
30
20
10
0
-10
-20
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurement not available.
Approx GSE = 50ft msl
South Sutter WD Unknown


Local Well No. 87
12N04E24M002M
388710N1214870W001
Water Surface Elevation (feet above mean sea level)
60
50
40
30
20
10
0
-10
-20
-30
-40
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y Scale is different than on other plots.
Screen interval measurements not available.
Approx GSE = 54ft msl
12N04E24M002M
Mehrten Formation
340 ft bgs

Local Well No. 88
11N03E03C002M
388357N1216273W001



Appendix H: Central Well Hydrographs

NORTH AMERICAN SUBBASIN GROUNDWATER SUSTAINABILITY PLAN

APPENDIX H
Central Area Wells with Hydrographs

December 2021

APPENDIX H

CENTRAL AREA
WELLS WITH HYDROGRAPHS

LEGEND:

- Laguna Formation Wells
- Mehrten Formation Wells
- Wells with Unknown Construction Details
- Ione or Central Valley Fm. Wells

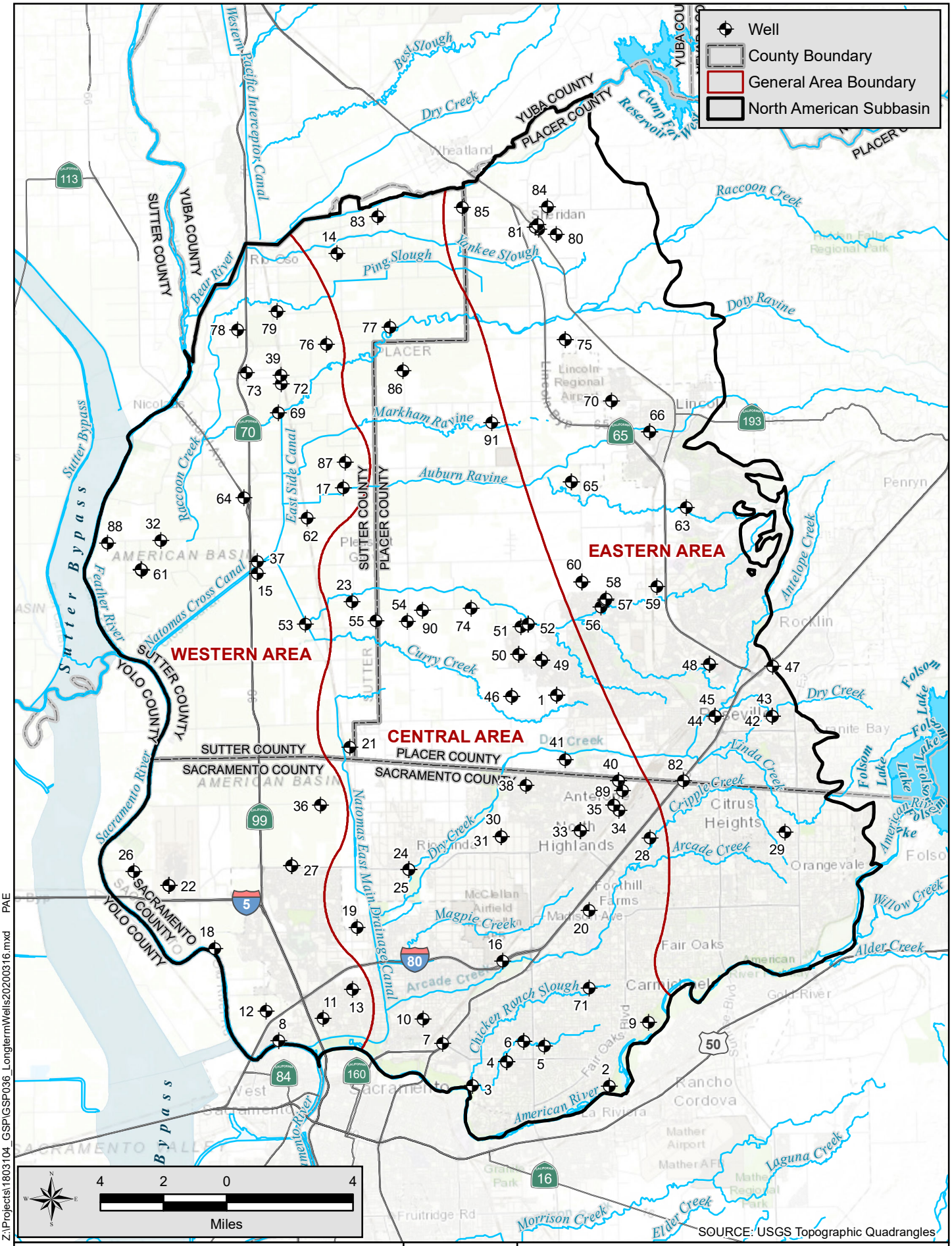
Long-Term Hydrographs

Years Displayed	1950 to 2019
Vertical Axis	50 feet
	Unless otherwise noted

Short Term Hydrographs

Years Displayed	2004 to 2019
	Unless otherwise noted
Vertical Axis	50 feet
	Unless otherwise noted

Groundwater levels from multiple aquifers shown



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18-Mar-2020

North American Subbasin
Sutter, Placer and Sacramento Counties

North American Subbasin

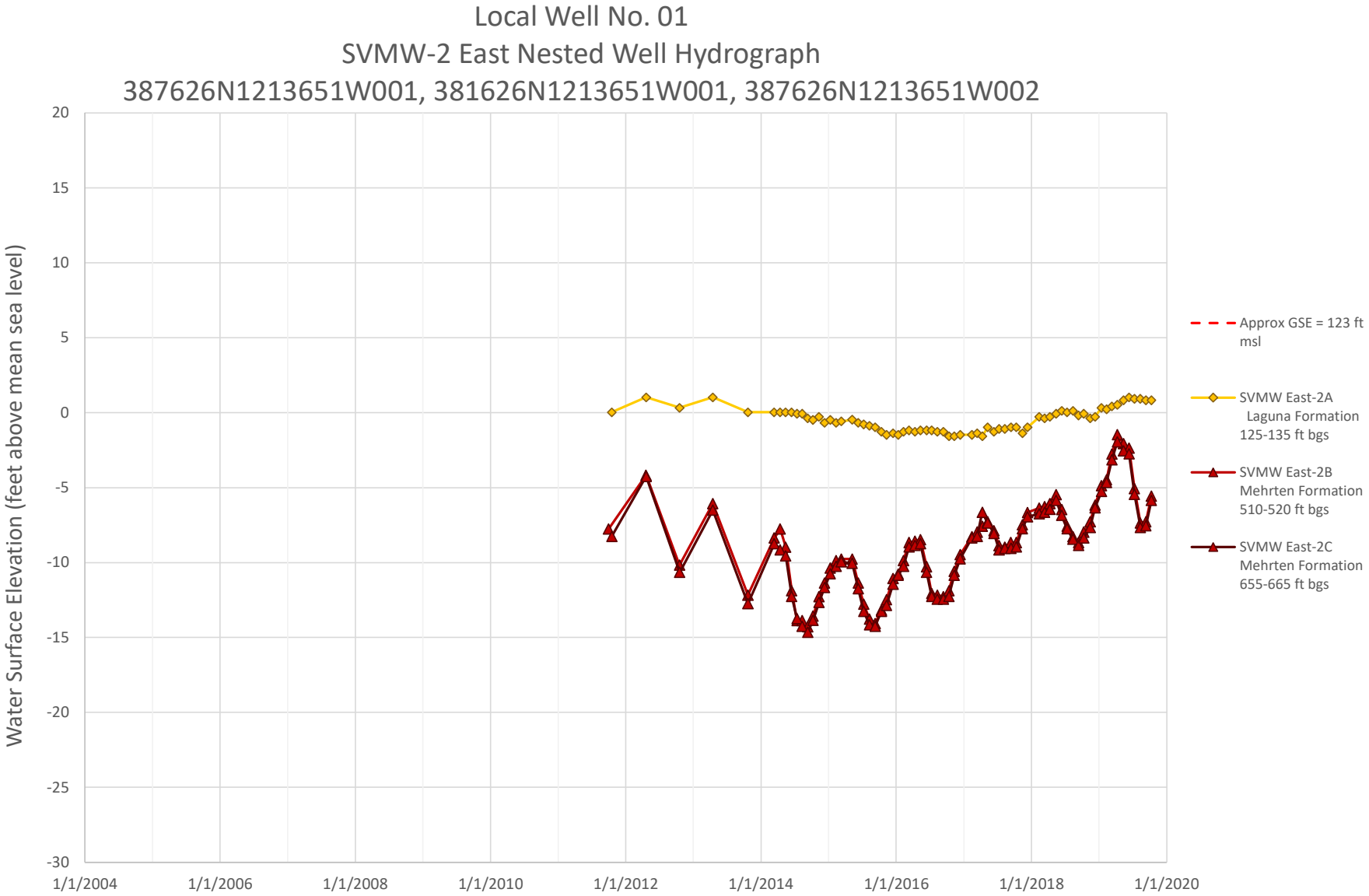
GEI Consultants

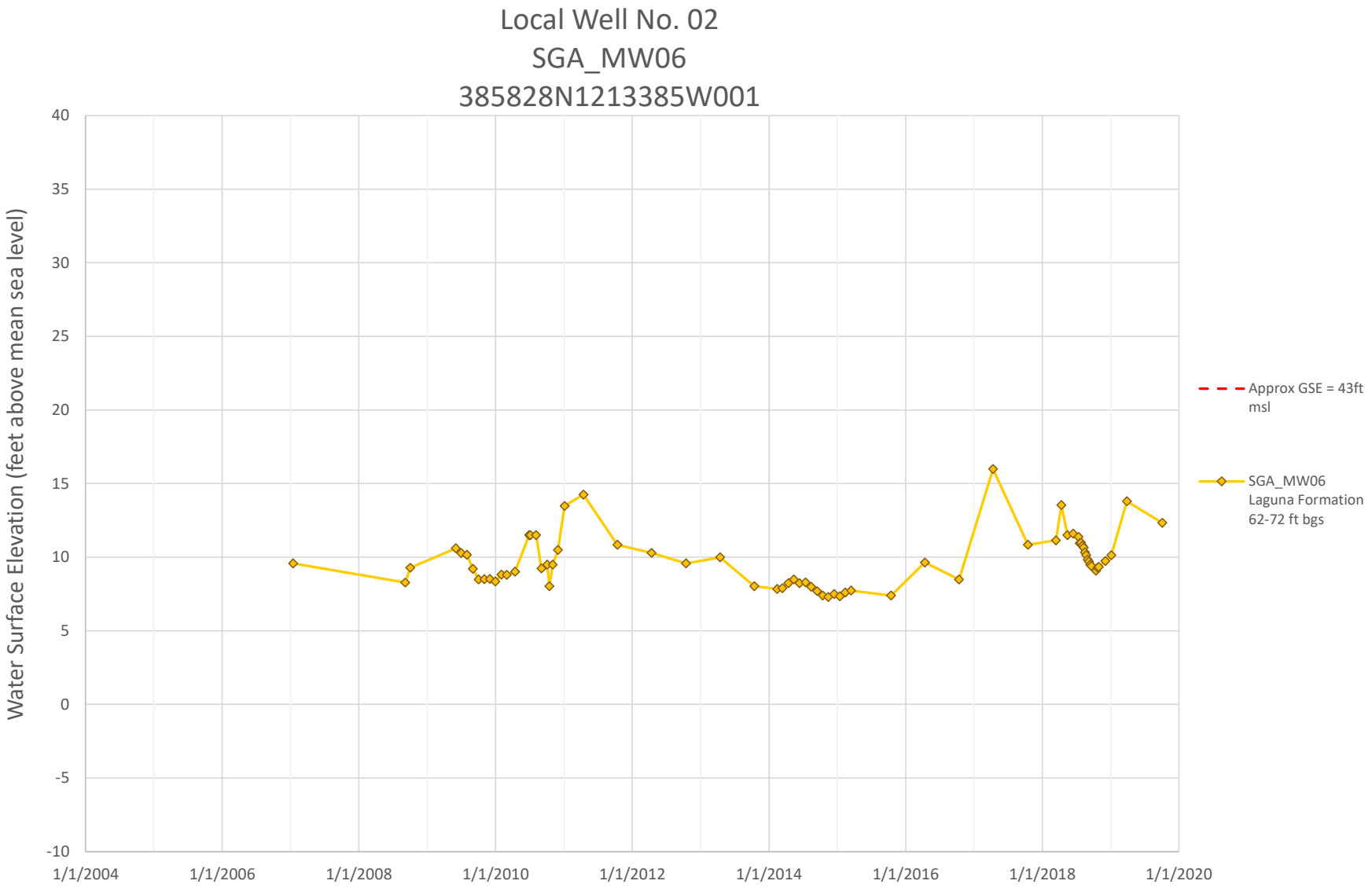
Long Term Wells

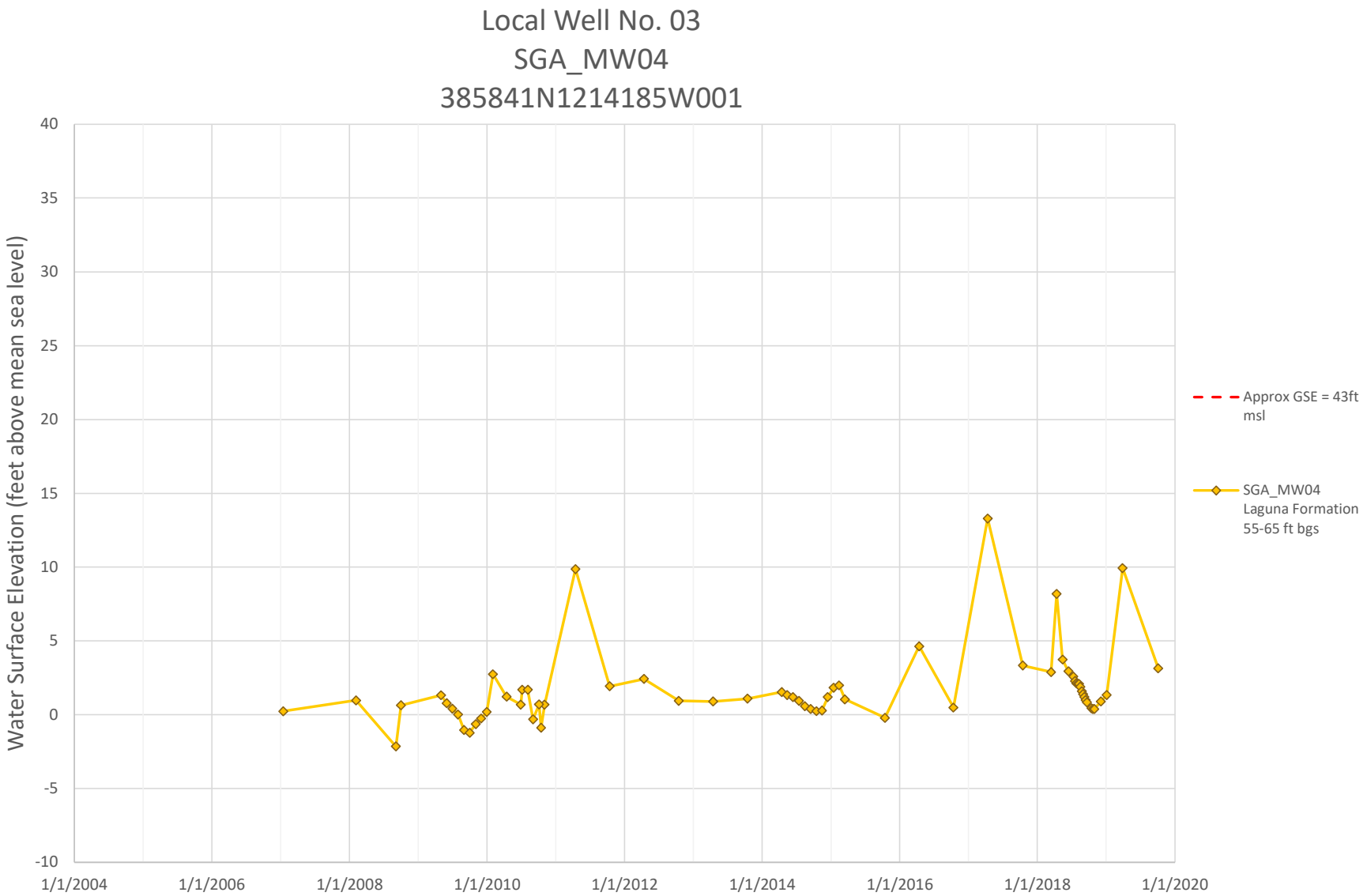
MARCH 2020

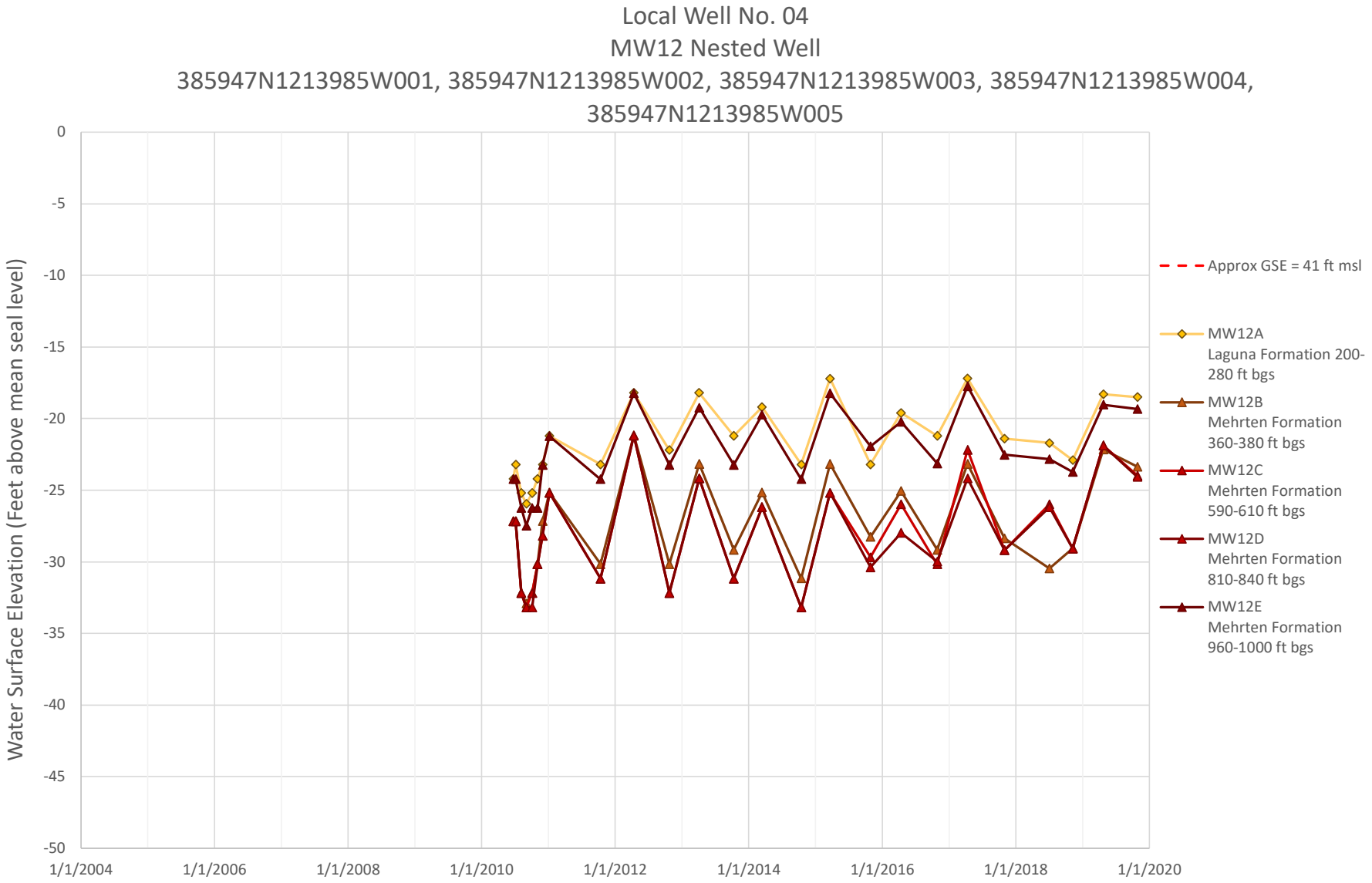
Sl No.	Local Well Number	State Well Number	CASGEM Well ID	CASGEM Station ID	Monitoring Entity	GW Basin Name	GW Basin Code	County	Well Use	CASGEM Well	Total Well Depth	Well Construction	Well Completion	Status	Latitude(Y)	Longitude(X)
1	SVMW East-2B	Not Available	48577	381626N1213651W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	525	Y	NOT AVAILABLE	Active	38.762629	-121.365097
1	SVMW East-2A	Not Available	48576	387626N1213651W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	140	Y	NOT AVAILABLE	Active	38.762629	-121.365099
1	SVMW East-2C	Not Available	48578	387626N1213651W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	670	Y	NOT AVAILABLE	Active	38.76263	-121.365098
2	SGA_MW06	Not Available	48014	385828N1213385W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	72	Y	e026069	Active	38.58281	-121.33846
3	SGA_MW04	Not Available	48012	385841N1214185W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	65	Y	e029066	Active	38.58414	-121.41852
4	MW12A	Not Available	48021	385947N1213985W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	285	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12B	Not Available	48022	385947N1213985W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	385	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12C	Not Available	48023	385947N1213985W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	615	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12D	Not Available	48024	385947N1213985W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	845	Y	NOT AVAILABLE	Active	38.59472	-121.39847
4	MW12E	Not Available	48025	385947N1213985W005	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	1005	Y	NOT AVAILABLE	Active	38.59472	-121.39847
5	DWR_SGA_004	09N05E25J001M	9641	386016N1213761W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	238	N	94507	Active	38.6016	-121.3761
6	MW11A	Not Available	48018	386038N1213882W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	187	Y	NOT AVAILABLE	Active	38.6038	-121.38815
6	MW11B	Not Available	48019	386038N1213882W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	278	Y	NOT AVAILABLE	Active	38.6038	-121.38815
6	MW11C	Not Available	48020	386038N1213882W003	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	375	Y	NOT AVAILABLE	Active	38.6038	-121.38815
7	DWR_SGA_005	09N05E28K001M	9643	386038N1214357W001	Department of Water Resources	North American	5-021.64	Sacramento	Irrigation	No	250	N	NOT AVAILABLE	Active	38.6038	-121.4357
8	SCWA_SGA_003	09N04E27F001M	8944	386061N1215313W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	320	N	828	Active	38.6061	-121.5313
9	SCWA_SGA_004	09N06E27D001M	9648	386117N1213150W001	Sacramento Central Groundwater	North American	5-021.64	Sacramento	Observation	No	200	N	NOT AVAILABLE	Inactive	38.6117	-121.315
10	DWR_SGA_003	09N05E21M001M	31412	386151N1214467W001	Department of Water Resources	North American	5-021.64	Sacramento	Unknown	No	89	N	NOT AVAILABLE	Active	38.6151	-121.4467
11	Bannon Creek Park	09N04E23R002M	48041	386160N1215054W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	48	Y	NOT AVAILABLE	Active	38.61603	-121.5054
12	09N04E22E001M	09N04E22E001M	8943	386199N1215386W001	Department of Water Resources	North American	5-021.64	Sacramento	Residential	No	-	N	NOT AVAILABLE	Active	38.6199	-121.5386
13	Chuckwagon Park	09N04E13R001M	48040	386292N1214877W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	52	Y	NOT AVAILABLE	Active	38.62921	-121.4877
14	13N04E23A002M	13N04E23A002M		389669N1214897W001	Department of Water Resources	North American	5-021.64	Sutter	Residential		83				38.9669	-121.4897
15	11N04E09D002M	11N04E09D002M		388208N1215397W001	Department of Water Resources	North American	5-021.64	Sutter	Residential		100				38.8208	-121.5397
16	DWR_SGA_002	09N05E14B001M	40050	386410N1213995W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	550	N	49236	Active	38.641	-121.3995
17	AB-2 deep	12N04E26J002M		388593N1214885W001	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
17	AB-2 middle	12N04E26J003M		388593N1214885W002	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
17	AB-2 shallow	12N04E26J004M		388593N1214885W003	Department of Water Resources	North American	5-021.64	Sutter	Observation					Active	38.8593	-121.4885
18	SCWA_SGA_002	09N04E08L001M	29914	386489N1215679W001	Department of Water Resources	North American	5-021.64	Sacramento	Irrigation	No	105	N	185	Active	38.6489	-121.5679
19	SCWA_SGA_001	09N04E01R001M	8921	386576N1214846W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	82	N	NOT AVAILABLE	Active	38.6576	-121.4846
20	SGA_MW05	Not Available	48013	386635N1213486W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	220	Y	e029068	Active	38.66347	-121.34859
21	10N04E12A001M	10N04E12A001M		387404N1214870W001	Department of Water Resources	North American	5-021.64		Irrigation					Active	38.7404	-121.487
22	AB-4 deep	10N04E31M001M	39756	386782N1215943W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	1080	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 middle-deep	10N04E31M002M	24319	386782N1215943W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	815	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 middle-shallow	10N04E31M003M	37857	386782N1215943W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	410	Y	NOT AVAILABLE	Active	38.6782	-121.5943
22	AB-4 shallow	10N04E31M004M	24318	386782N1215943W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	200	Y	NOT AVAILABLE	Active	38.6782	-121.5943
23	South Sutter	11N04E13D001M		388072N1214842W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation		535				38.8072	-121.4842
24	SGA_MW02	Not Available	48010	386836N1214536W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	110	Y	e029062	Active	38.68362	-121.45363
25	SGA_MW03	Not Available	48011	386836N1214536W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	305	Y	e034123	Active	38.68356	-121.45362
26	SCWA_SGA_005	10N03E35A001M	40055	386848N1216146W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Irrigation	No	96	N	221	Active	38.6848	-121.6146
27	AB-3 deep	10N04E27R002M	32581	386864N1215222W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	995	Y	NOT AVAILABLE	Active	38.6864	-121.5222
27	AB-3 middle	10N04E27R003M	15689	386864N1215222W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	500	Y	NOT AVAILABLE	Active	38.6864	-121.5222
27	AB-3 shallow	10N04E27R004M	15690	386864N1215222W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	220	Y	NOT AVAILABLE	Active	38.6864	-121.5222
28	Twin Creeks Park	10N06E27F001M	48042	386964N1213120W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	198	Y	NOT AVAILABLE	Active	38.6964	-121.31203
29	SCWA_SGA_012	10N07E29G001M	33380	386979N1212329W001	Sacramento County	North American	5-021.64	Sacramento	Irrigation	No	240	N	1037	Inactive	38.6979	-121.2329
30	SCWA_SGA_008	10N05E14Q002M	13652	386982N1213992W001	Department of Water Resources	North American	5-021.64	Sacramento	Residential	No	225	N	10678	Active	38.6982	-121.3992
31	SCWA_SGA_009	10N05E26B002M	13654	386982N1213992W002	Sacramento County	North American	5-021.64	Sacramento	Residential	No	150	N	NOT AVAILABLE	Active	38.6982	-121.3992
32	MLF Well #1	11N03E01D001M		388361N1215959W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.83664	-121.59591
33	Monument (A)	Not Available	48030	387000N1213529W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	274	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (B)	Not Available	48031	387000N1213529W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	334	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (C)	Not Available	48032	387000N1213529W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	450	Y	NOT AVAILABLE	Active	38.70005	-121.35288
33	Monument (D)	Not Available	48033	387000N1213529W004	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	544	Y	NOT AVAILABLE	Active	38.70005	-121.35288
34	SCWA_SGA_010	10N06E21F002M	33087	387092N1213300W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Residential	No	144	N	NOT AVAILABLE	Active	38.7092	-121.33
35	Poker (A)	Not Available	48034	387117N1213327W001	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	134	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (B)	Not Available	48035	387117N1213327W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	176	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (C)	Not Available	48036	387117N1213327W003	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	320	Y	NOT AVAILABLE	Active	38.71174	-121.33271
35	Poker (D)	Not Available	48037	387117N1213327W004	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	470	Y	NOT AVAILABLE	Active	38.71174	-121.33271
36	SCWA_SGA_006	10N04E23A001M	32580	387138N1215047W001	Sacramento County	North American	5-021.64	Sacramento	Industrial	No	85	N	NOT AVAILABLE	Active	38.7138	-121.5047
37	SUT-P4	11N04E04N001M		388260N1215394W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		305				38.826	-121.5394
37	SUT-P3	11N04E04N002M		388260N1215394W002	Department of Water Resources	North American	5-021.64	Sutter	Observation		195				38.826	-121.5394
37	SUT-P2	11N04E04N003M		388260N1215394W003	Department of Water Resources	North American	5-021.64	Sutter	Observation		120				38.826	-121.5394
37	SUT-P1	11N04E04N004M		388260N1215394W004	Department of Water Resources	North American	5-021.64	Sutter	Observation		980				38.826	-121.5394
38	Lone Oak Park	10N05E13F001M	48043	387216N1213842W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	166	Y	NOT AVAILABLE	Active	38.72163	-121.38417
39	AB-1 deep	12N04E03N001M		389116N1215238W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		980				38.9116	-121.5238
39	AB-1 middle-deep	12N04E03N002M		389116N1215238W002	Department of Water Resources	North American	5-021.64	Sutter	Observation		710				38.9116	-121.5238
39	AB-1 shallow	12N04E03N004M		389116N1215238W003	Department of Water Resources	North American	5-021.64	Sutter	Observation		190				38.9116	-121.5238
Sl No.	Local Well Number	State Well Number	CASGEM Well ID	CASGEM Station ID	Monitoring Entity	GW Basin Name	GW Basin Code	County	Well Use	CASGEM Well	Total Well Depth	Well Construction	Well Completion	Status	Latitude(Y)	Longitude(X)
39	AB-1 middle-shallow	12N04E03N003M		389117N1215238W001	Department of Water Resources	North American	5-021.64	Sutter	Observation		530				38.9116	-121.5238
40	Antelope North (A)	Not Available	48038	387228N1213298W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	283	Y	NOT AVAILABLE	Active	38.722803	-121.329755
40	Antelope North (B)	Not Available	48039	387228N1213298W002	Sacramento Groundwater Authority	North American	5-021.64	Sacramento	Observation	Yes	473	Y	NOT AVAILABLE	Active	38.722803	-121.329755
41	WPMW-5A	Not Available	51280	387331N1213610W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	100	Y	e0266541	Active	38.733106	-121.360994
41	WPMW-5B	Not Available	51281	387331N1213610W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	650	Y	e0266541	Active	38.733106	-121.360994
42	WPMW-7A	Not Available	51283	387512N1212390W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	45	Y	e0265730	Active	38.751194	-121.239
43	WPMW-8A	Not Available	51284	387510N1212390W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	50	Y	e0265733	Active	38.750989	-121.23895
43	WPMW-8B	Not Available	51285	387510N1212390W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	115	Y	e0265733	Active	38.750989	-121.23895
44	WPMW-9A	Not Available	51286	387517N1212727W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	36	Y	e0265735	Active	38.751667	-121.272656
45	WPMW-10A	Not Available	51287	387515N1212725W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	36	Y	e0265738	Active	38.751494	-121.272511
45	WPMW-10B	Not Available	51288	387515N1212725W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	100	Y	e0265738	Active	38.751494	-121.272511
45	WPMW-10C	Not Available	51289	387515N1212725W003	City of Roseville	North American	5-021.64	Placer	Observation	Yes	260	Y	e0265738	Active	38.751494	-121.272511

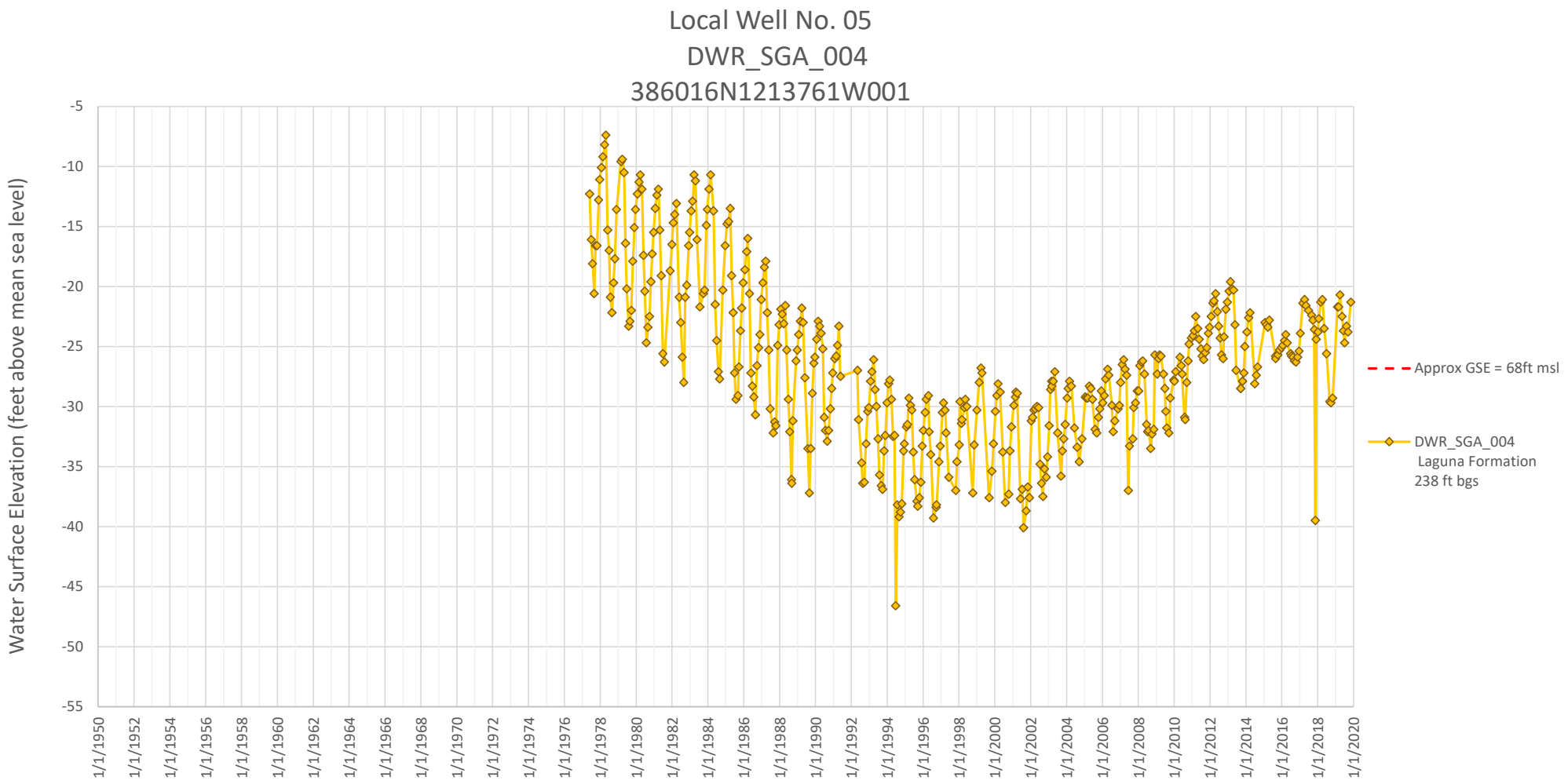
46	SVMW West - 1A	Not Available	48573	387623N1213915W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	145	Y	NOT AVAILABLE	Active	38.762324	-121.39153
46	SVMW West - 1B	Not Available	48574	387623N1213915W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	560	Y	NOT AVAILABLE	Active	38.762325	-121.39153
46	SVMW West - 1C	Not Available	48575	387623N1213915W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	750	Y	NOT AVAILABLE	Active	38.762325	-121.391529
48	WPMW-4A	Not Available	48567	387755N1212753W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	145	Y	NOT AVAILABLE	Active	38.775536	-121.275254
48	WPMW-4B	Not Available	48568	387755N1212753W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	300	Y	NOT AVAILABLE	Active	38.775535	-121.275255
49	WPMW-1A	Not Available	48560	387786N1213737W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	120	Y	NOT AVAILABLE	Active	38.778603	-121.373698
49	WPMW-1B	Not Available	48561	387786N1213737W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	480	Y	NOT AVAILABLE	Active	38.778603	-121.373697
49	WPMW-1C	Not Available	48562	387786N1213737W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	545	Y	NOT AVAILABLE	Active	38.778602	-121.373698
50	W-77MW-A	Not Available	51294	387816N1213870W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	516	Y	NOT AVAILABLE	Active	38.781581	-121.38702
50	W-77MW-B	Not Available	51295	387816N1213870W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	604	Y	NOT AVAILABLE	Active	38.781581	-121.38702
51	O'Brien well	11N05E23B001M	11223	387943N1213856W001	City of Roseville	North American	5-021.64	Placer	Residential	No	195	N	NOT AVAILABLE	Active	38.7943	-121.3856
52	CVMW-1A	Not Available	48569	387957N1213813W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	285	Y	NOT AVAILABLE	Active	38.795655	-121.38126
52	CVMW-1B	Not Available	48571	387957N1213813W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	495	Y	NOT AVAILABLE	Active	38.795654	-121.381258
52	CVMW-1C	Not Available	48572	387957N1213813W003	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	590	Y	NOT AVAILABLE	Active	38.795655	-121.381258
53	South Sutter WD	11N04E15Q001M	10508	387971N1215119W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.7971	-121.5119
54	South Sutter WD	11N05E18R001M	11221	387977N1214521W001	South Sutter Water District	North American	5-021.64	Placer	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.7977	-121.4521
55	South Sutter WD	11N04E13R001M	10507	387982N1214704W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.7982	-121.4704
56	DCMW-3	Not Available	51293	388027N1213384W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	520	Y	NOT AVAILABLE	Active	38.80271	-121.338432
57	DCMW-1	Not Available	51291	388058N1213355W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	455	Y	NOT AVAILABLE	Active	38.805757	-121.335503
58	DCMW-2	Not Available	51292	388063N1213354W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	437	Y	NOT AVAILABLE	Active	38.806291	-121.335415
59	Tinker MW	Not Available	51290	388116N1213054W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	177	Y	NOT AVAILABLE	Active	38.811594	-121.305387
60	WPMW-2A	Not Available	48563	388145N1213491W001	City of Roseville	North American	5-021.64	Placer	Observation	Yes	230	Y	NOT AVAILABLE	Active	38.814497	-121.349144
60	WPMW-2B	Not Available	48564	388145N1213491W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	425	Y	NOT AVAILABLE	Active	38.814497	-121.349143
61	Sutter County MW-5A	11N03E02Q002M	47776	388235N1216079W001	Sutter County	North American	5-021.64	Sutter	Observation	Yes	170	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5B	11N03E02Q003M	47777	388235N1216079W002	Sutter County	North American	5-021.64	Sutter	Observation	Yes	675	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5C	11N03E02Q004M	47778	388235N1216079W003	Sutter County	North American	5-021.64	Sutter	Observation	Yes	930	Y	E0123539	Active	38.823235	-121.60763
61	Sutter County MW-5D	11N03E02Q005M	47779	388235N1216079W004	Sutter County	North American	5-021.64	Sutter	Observation	Yes	1225	Y	E0123539	Active	38.8235	-121.6079
62	South Sutter WD	12N04E34H001M	17037	388458N1215100W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Residential	Yes	-	N	NOT AVAILABLE	Active	38.8458	-121.51
63	WPMW-3A	Not Available	48565	388476N1212872W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	53	Y	NOT AVAILABLE	Active	38.847609	-121.287189
63	WPMW-3B	Not Available	48566	388476N1212872W002	City of Roseville	North American	5-021.64	Placer	Observation	Yes	140	Y	NOT AVAILABLE	Active	38.847609	-121.287187
64	South Sutter WD	12N04E29J001M	25784	388555N1215468W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.8555	-121.5468
65	MW 1-2	Not Available	49928	388604N1213544W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	318	Y	NOT AVAILABLE	Active	38.860383	-121.354383
65	MW 1-4	Not Available	49930	388604N1213544W004	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	92	Y	NOT AVAILABLE	Active	38.860383	-121.354383
66	MW 5-1	Not Available	49937	388826N1213078W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	100	Y	NOT AVAILABLE	Active	38.882583	-121.30775
66	MW 5-2	Not Available	49938	388826N1213078W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	62	Y	NOT AVAILABLE	Active	38.882583	-121.30775
69	South Sutter WD	12N04E16A004M	17031	388944N1215257W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.8944	-121.5257
70	MW 3-2	Not Available	49935	388971N1213301W002	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	75	Y	NOT AVAILABLE	Active	38.897133	-121.330083
71	WCMSS	Not Available	52461	386280N1213493W001	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	170	Y	WCR2016-005904	Active	38.62799	-121.34925
71	WCMSM	Not Available	52462	386280N1213493W002	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	290	Y	WCR2016-005902	Active	38.62799	-121.34925
71	WCMSD	Not Available	52463	386280N1213493W003	Department of Water Resources	North American	5-021.64	Sacramento	Observation	Yes	530	Y	WCR2016-005899	Active	38.62799	-121.34925
72	South Sutter WD	12N04E10D002M	17027	389075N1215237W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.9075	-121.5237
73	South Sutter WD	12N04E05R004M	17025	389130N1215441W001	South Sutter Water District	North American	5-021.64	Sutter	Residential	Yes	90	N	NOT AVAILABLE	Active	38.913	-121.5441
74	11N05E16H001M	11N05E16H001M		388029N1214145W001	Department of Water Resources	North American	5-021.64	Placer	Irrigation		460				38.8029	-121.4145
75	MW 2-1	Not Available	49931	389255N1213566W001	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	310	Y	NOT AVAILABLE	Active	38.925467	-121.356633
75	MW 2-2	Not Available	49932	389255N1213566W002	City of Lincoln	North American	5-021.64	Placer	Observation	Yes	170	Y	NOT AVAILABLE	Active	38.925467	-121.356633
76	South Sutter WD	13N04E35Q002M	35624	389255N1214969W001	South Sutter Water District	North American	5-021.64	Sutter	Unknown	Yes	-	N	NOT AVAILABLE	Active	38.9255	-121.4969
77	South Sutter WD	13N05E31K001M	40137	389327N1214594W001	Department of Water Resources	North American	5-021.64	Sutter	Unknown	Yes	393	N	NOT AVAILABLE	Active	38.9327	-121.4594
78	South Sutter WD	13N04E32G001M	35623	389328N1215489W001	SUTTER, SOUTH, WATER DISTRICT	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.9328	-121.5489
79	South Sutter WD	13N04E28R001M	17195	389410N1215254W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation	Yes	-	N	NOT AVAILABLE	Active	38.941	-121.5254
80	Cemetery	Not Available	51328	389740N1213606W001	Placer County	North American	5-021.64	Placer	Irrigation	Yes	111	Y	NOT AVAILABLE	Active	38.974027	-121.360615
81	MW-2	Not Available	51331	389764N1213710W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	45	Y	NOT AVAILABLE	Active	38.976427	-121.371001
81	MW-3	Not Available	51332	389774N1213728W001	Placer County	North American	5-021.64	Placer	Observation	Yes	35	Y	NOT AVAILABLE	Active	38.977408	-121.372844
81	MW-1	Not Available	51330	389785N1213713W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	40	Y	NOT AVAILABLE	Active	38.97846	-121.37132
Sl No.	**Local Well Number**	**State Well Number**	**CASGEM Well ID**	**CASGEM Station ID**	**Monitoring Entity**	**GW Basin Name**	**GW Basin Code**	**County**	**Well Use**	**CASGEM Well**	**Total Well Depth**	**Well Construction**	**Well Completion**	**Status**	**Latitude(Y)**	**Longitude(X)**
82	Whyte A	Not Available	52475	387222N1212920W001	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	226	Y	e0303799	Active	38.722168	-121.29196
82	Whyte B	Not Available	52476	387222N1212920W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	306	Y	e0303799	Active	38.722168	-121.29196
83	South Sutter WD	13N05E18C001M	17209	389834N1214655W001	South Sutter Water District	North American	5-021.64	Sutter	Irrigation	Yes	210	N	NOT AVAILABLE	Active	38.9834	-121.4655
84	Spencer	Not Available	52555	389867N1213654W002	Department of Water Resources	North American	5-021.64	Placer	Residential	Yes	107	Y	101157	Active	38.986724	-121.36542
85	13N05E09R001M	13N05E09R001M		389873N1214156W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.9873	-121.4156
86	12N05E06R001M	12N05E06R001M		389128N1214522W001	Department of Water Resources	North American	5-021.64	Placer	Irrigation						38.9128	-121.4522
87	12N04E24M002M	12N04E24M002M		388710N1214870W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.871	-121.487
88	11N03E03C002M	11N03E03C002M		388357N1216273W001	Department of Water Resources	North American	5-021.64	Sutter	Irrigation						38.8357	-121.6273
89	Roseview-MW315	Not Available			Sacramento Groundwater Authority	North American	5-021.64				315				38.718222	-121.327729
89	Roseview-MW465	Not Available			Sacramento Groundwater Authority	North American	5-021.64				465				38.718222	-121.327729
90	WPMW-11A	Not Available	54779	388882N1214005W002	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	162	Y	NOT AVAILABLE		38.888164	-121.400463
90	WPMW-11B	Not Available	54780	388882N1214005W004	Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	309	Y	NOT AVAILABLE		38.888164	-121.400463
91	WPMW12-A	Not Available			Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	300	Y	NOT AVAILABLE		38.802639	-121.443216
91	WPMW12-B	Not Available			Department of Water Resources	North American	5-021.64	Placer	Observation	Yes	550	Y	NOT AVAILABLE		38.802639	-121.443216

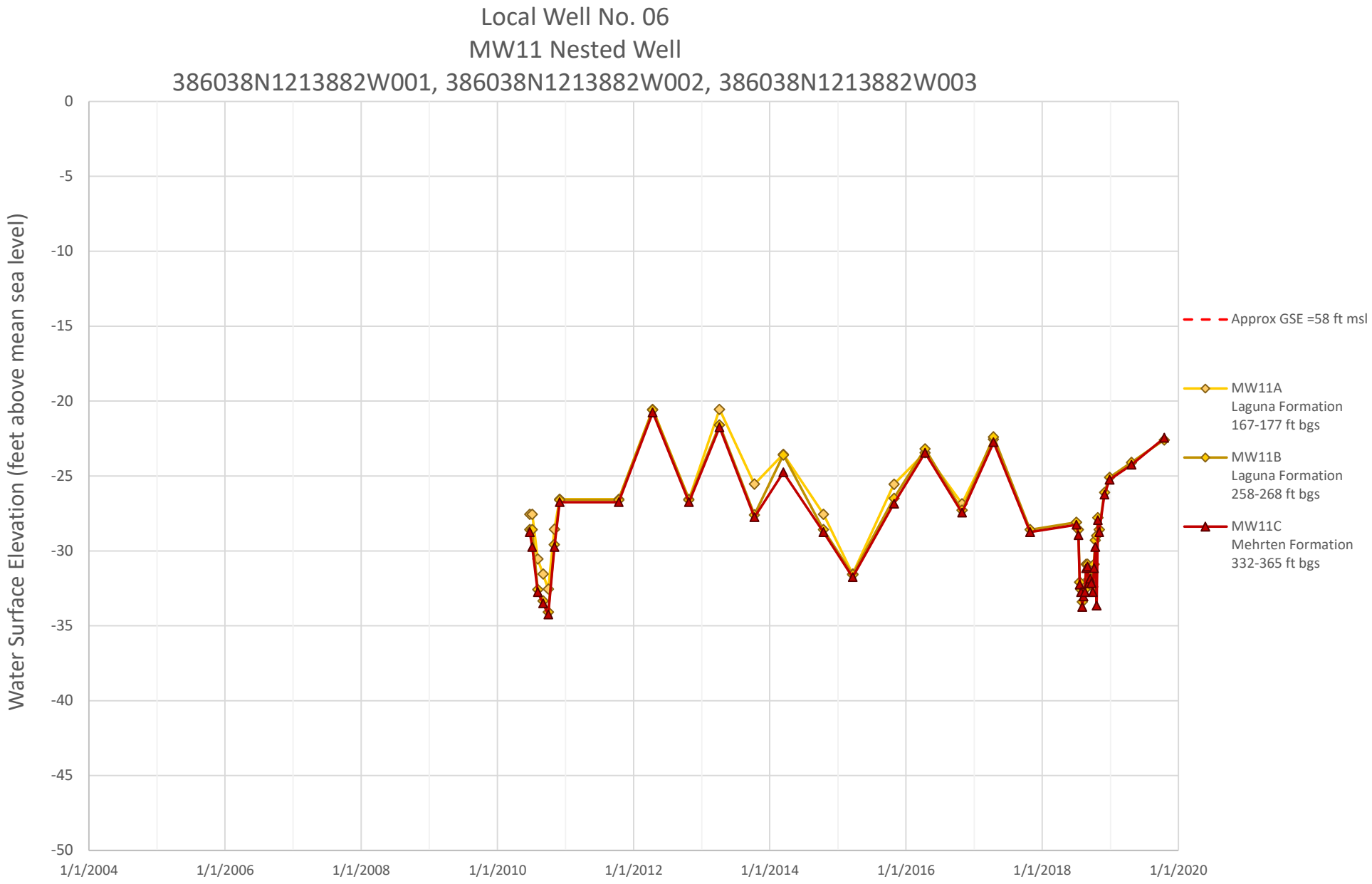

Local Well No. 01
SVMW-2 East Nested Well Hydrograph
387626N1213651W001, 381626N1213651W001, 387626N1213651W002
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 123 ft msl
SVMW East-2A Laguna Formation 125-135 ft bgs
SVMW East-2B Mehrten Formation 510-520 ft bgs
SVMW East-2C Mehrten Formation 655-665 ft bgs

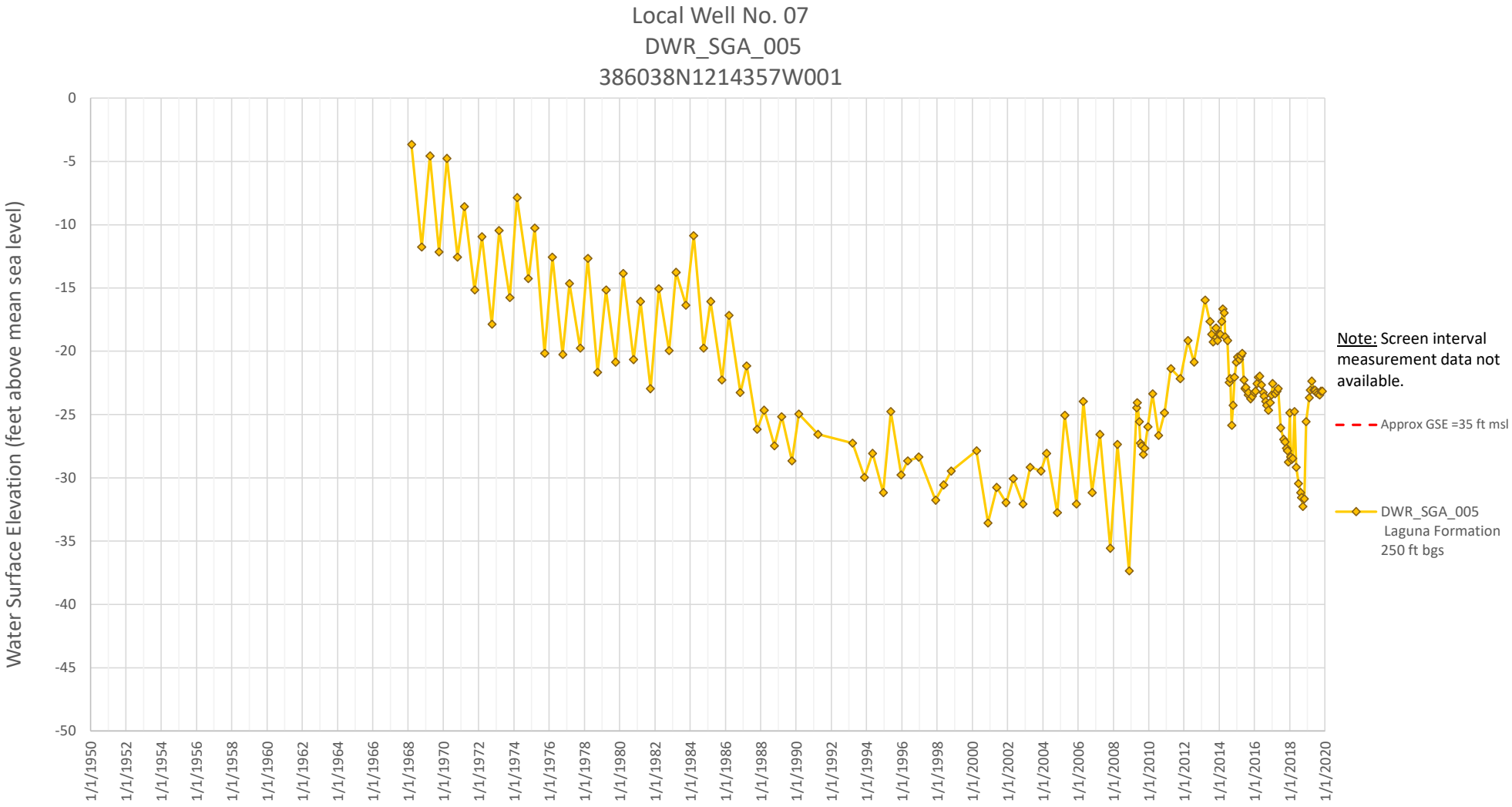

Local Well No. 02
SGA_MW06
385828N1213385W001
Water Surface Elevation (feet above mean sea level)
40
35
30
25
20
15
10
5
0
-5
-10
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 43ft msl
SGA_MW06 Laguna Formation 62-72 ft bgs

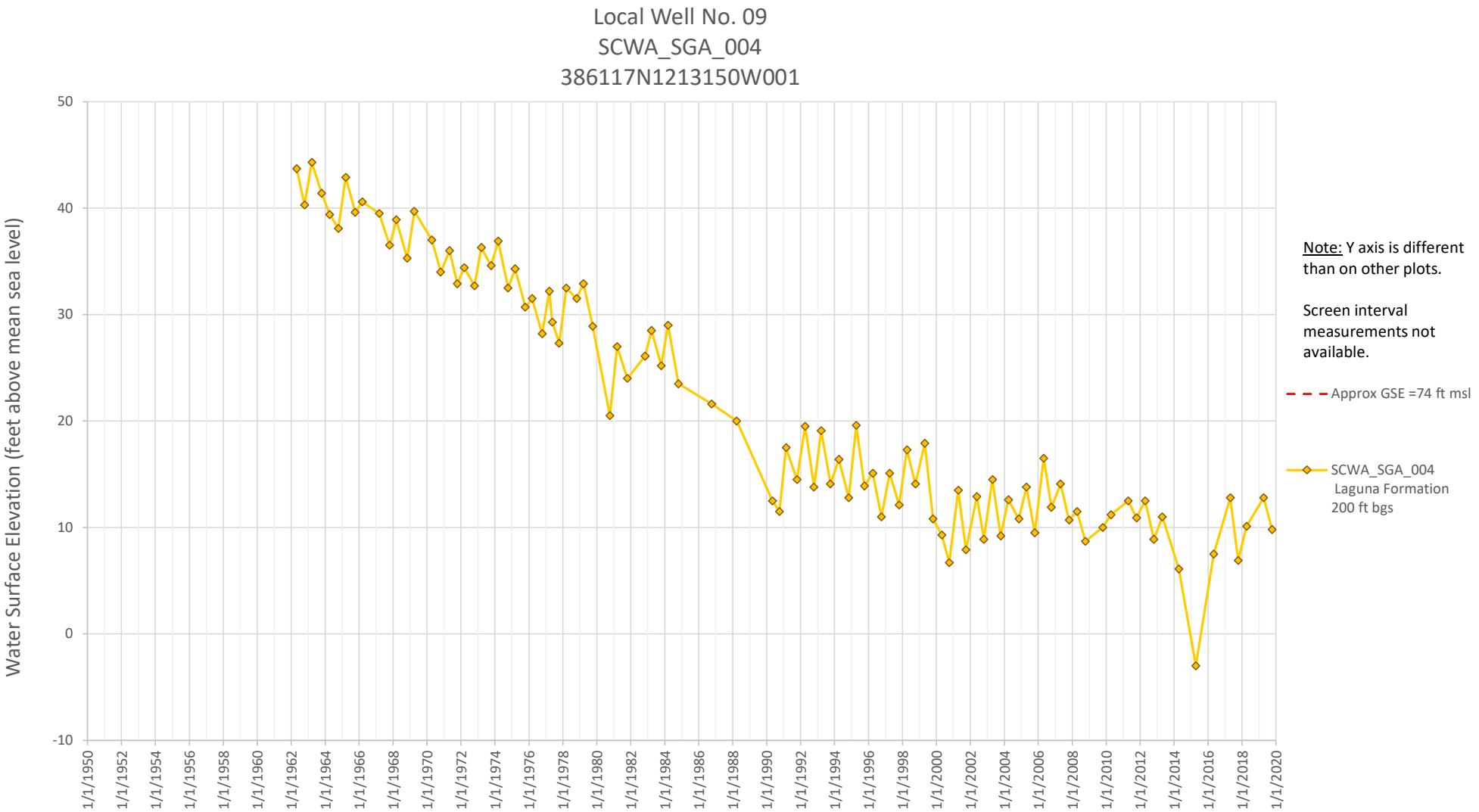

Local Well No. 03
SGA_MW04
385841N1214185W001
Water Surface Elevation (feet above mean sea level)
40
35
30
25
20
15
10
5
0
-5
-10
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 43ft msl
SGA_MW04
Laguna Formation
55-65 ft bgs

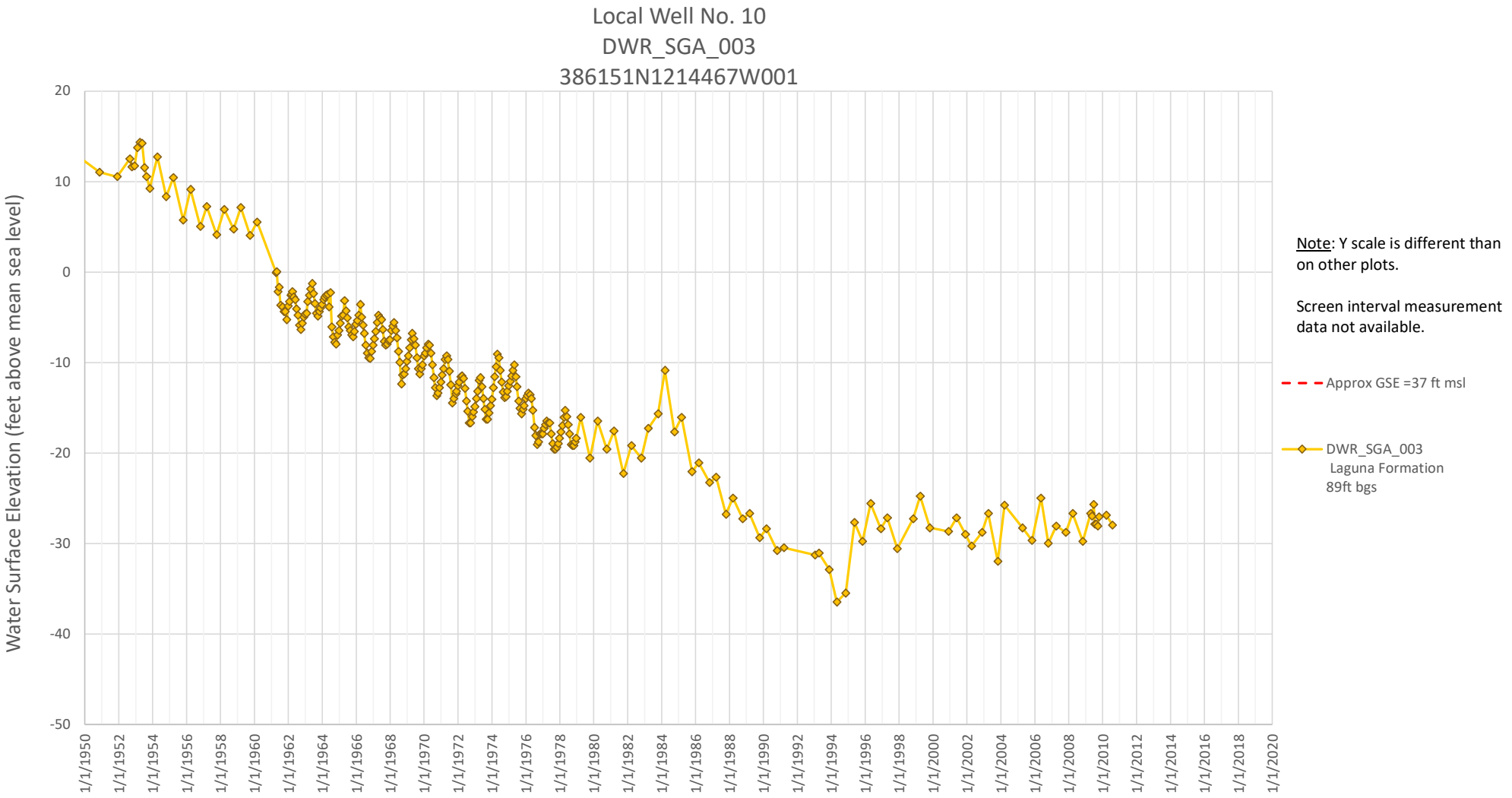

Local Well No. 04
MW12 Nested Well
385947N1213985W001, 385947N1213985W002, 385947N1213985W003, 385947N1213985W004, 385947N1213985W005
Water Surface Elevation (Feet above mean seal level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 41 ft msl
MW12A
Laguna Formation 200-280 ft bgs
MW12B
Mehrten Formation 360-380 ft bgs
MW12C
Mehrten Formation 590-610 ft bgs
MW12D
Mehrten Formation 810-840 ft bgs
MW12E
Mehrten Formation 960-1000 ft bgs


Local Well No. 05
DWR_SGA_004
386016N1213761W001
Water Surface Elevation (feet above mean sea level)
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 68ft msl
DWR_SGA_004
Laguna Formation
238 ft bgs

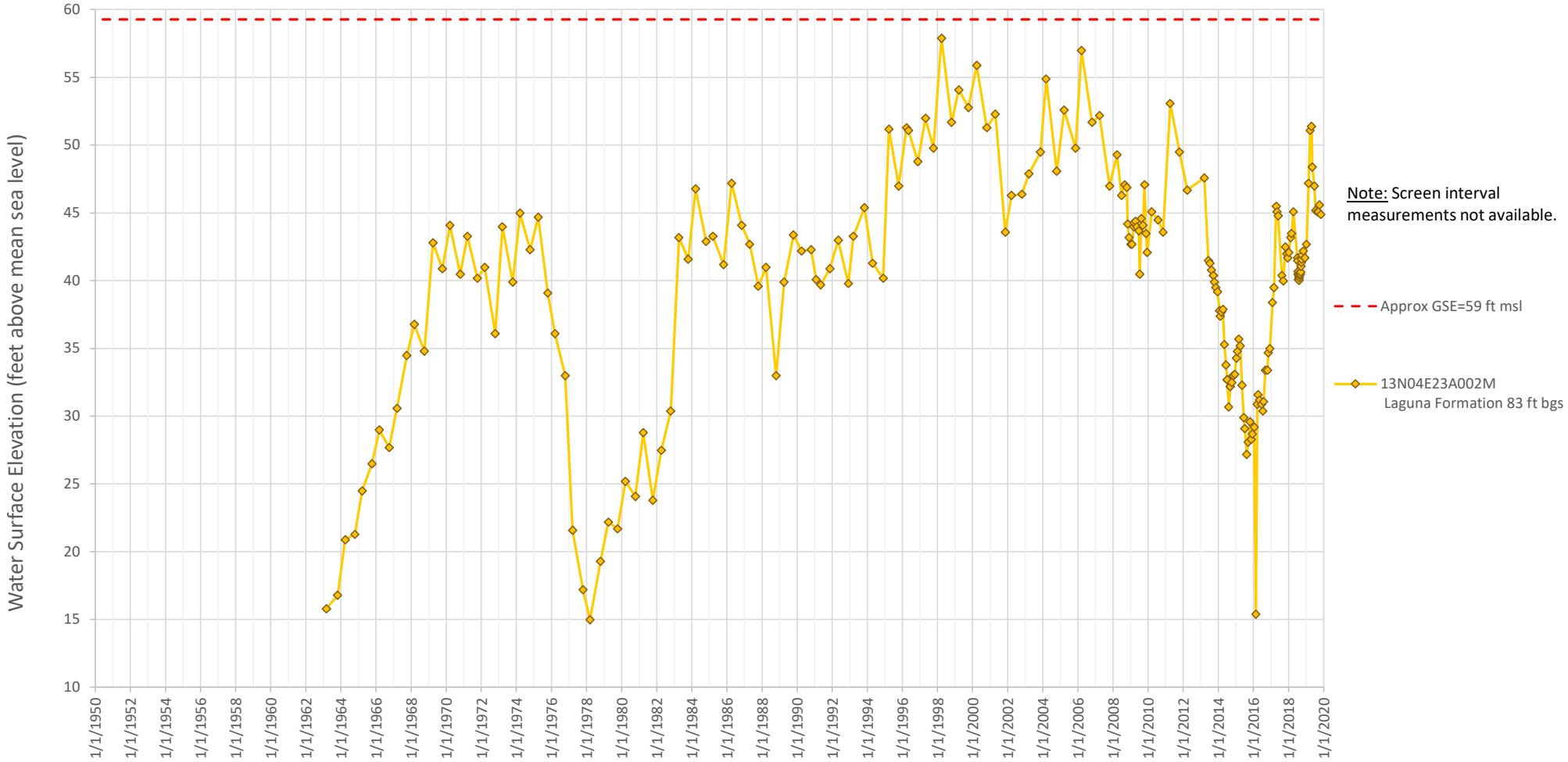

Local Well No. 06
MW11 Nested Well
386038N1213882W001, 386038N1213882W002, 386038N1213882W003
Water Surface Elevation (feet above mean sea level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE =58 ft msl
MW11A
Laguna Formation
167-177 ft bgs
MW11B
Laguna Formation
258-268 ft bgs
MW11C
Mehrten Formation
332-365 ft bgs

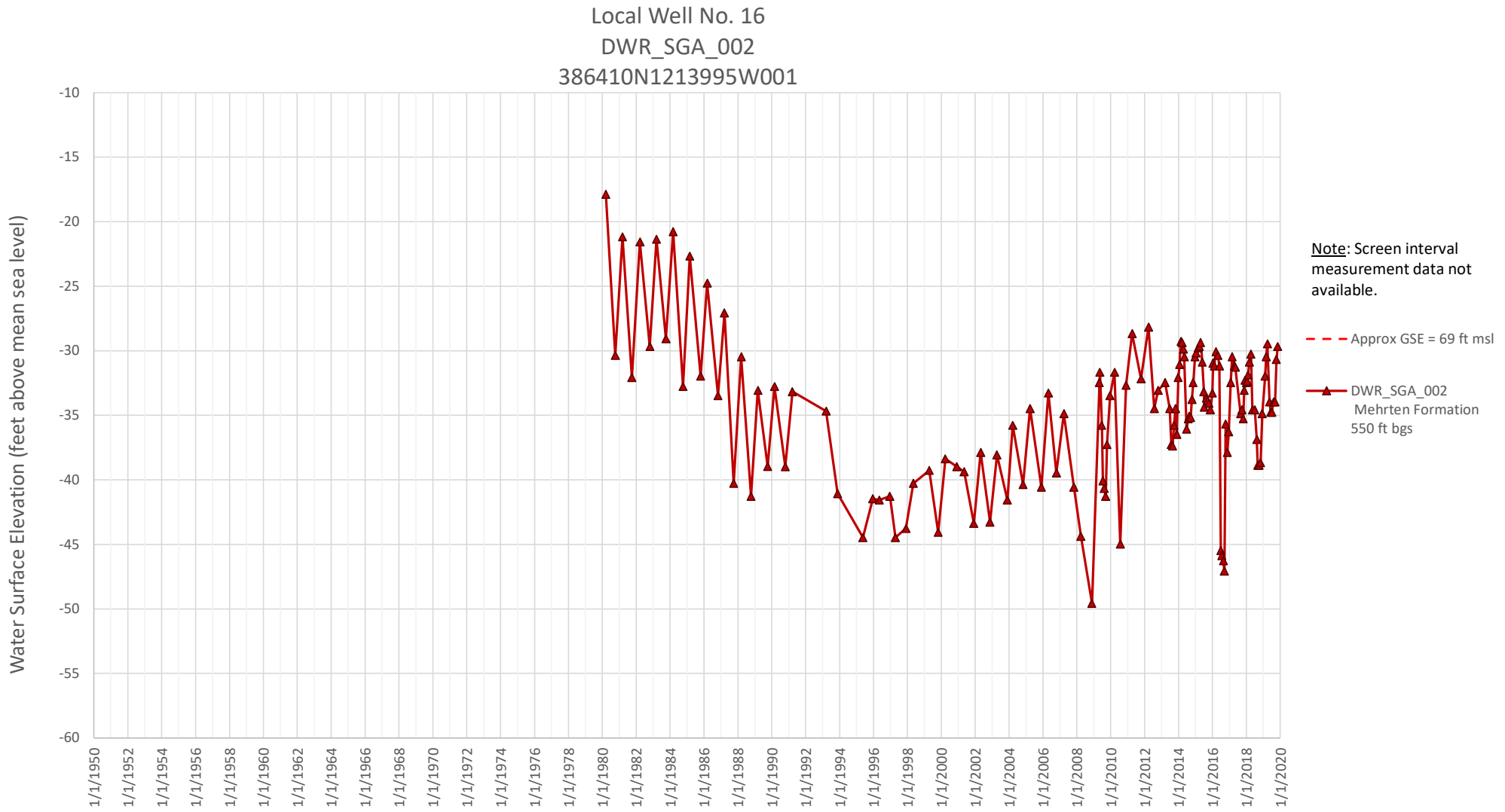

Local Well No. 07
DWR_SGA_005
386038N1214357W001
Water Surface Elevation (feet above mean sea level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurement data not available.
Approx GSE =35 ft msl
DWR_SGA_005
Laguna Formation
250 ft bgs


Local Well No. 09
SCWA_SGA_004
386117N1213150W001
Water Surface Elevation (feet above mean sea level)
50
40
30
20
10
0
-10
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y axis is different than on other plots.
Screen interval measurements not available.
Approx GSE =74 ft msl
SCWA_SGA_004
Laguna Formation
200 ft bgs

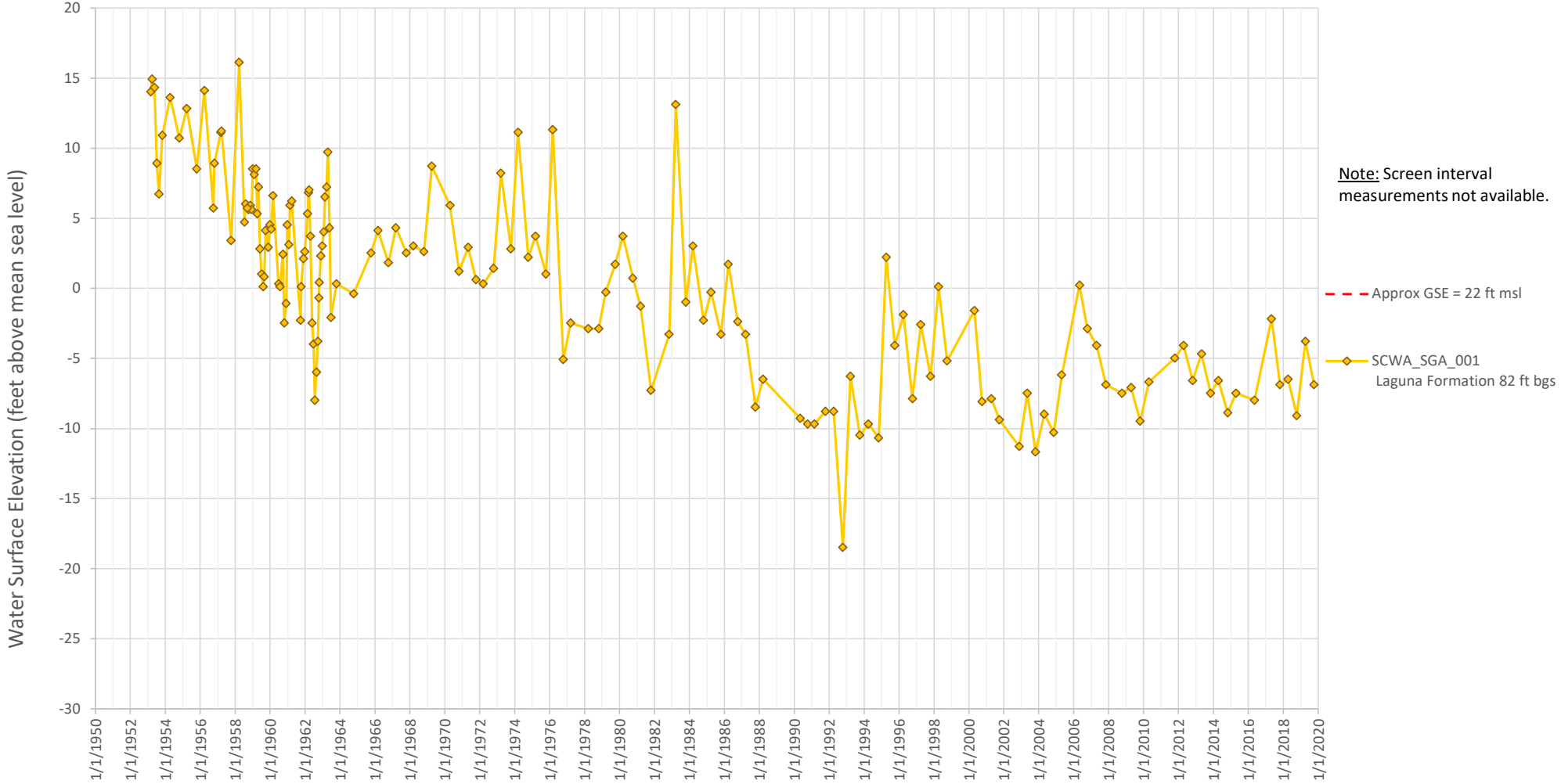

Local Well No. 10
DWR_SGA_003
386151N1214467W001
Water Surface Elevation (feet above mean sea level)
20
10
0
-10
-20
-30
-40
-50
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurement data not available.
Approx GSE =37 ft msl
DWR_SGA_003
Laguna Formation
89ft bgs

Local Well No. 14
13N04E23A002M
389669N1214897W001

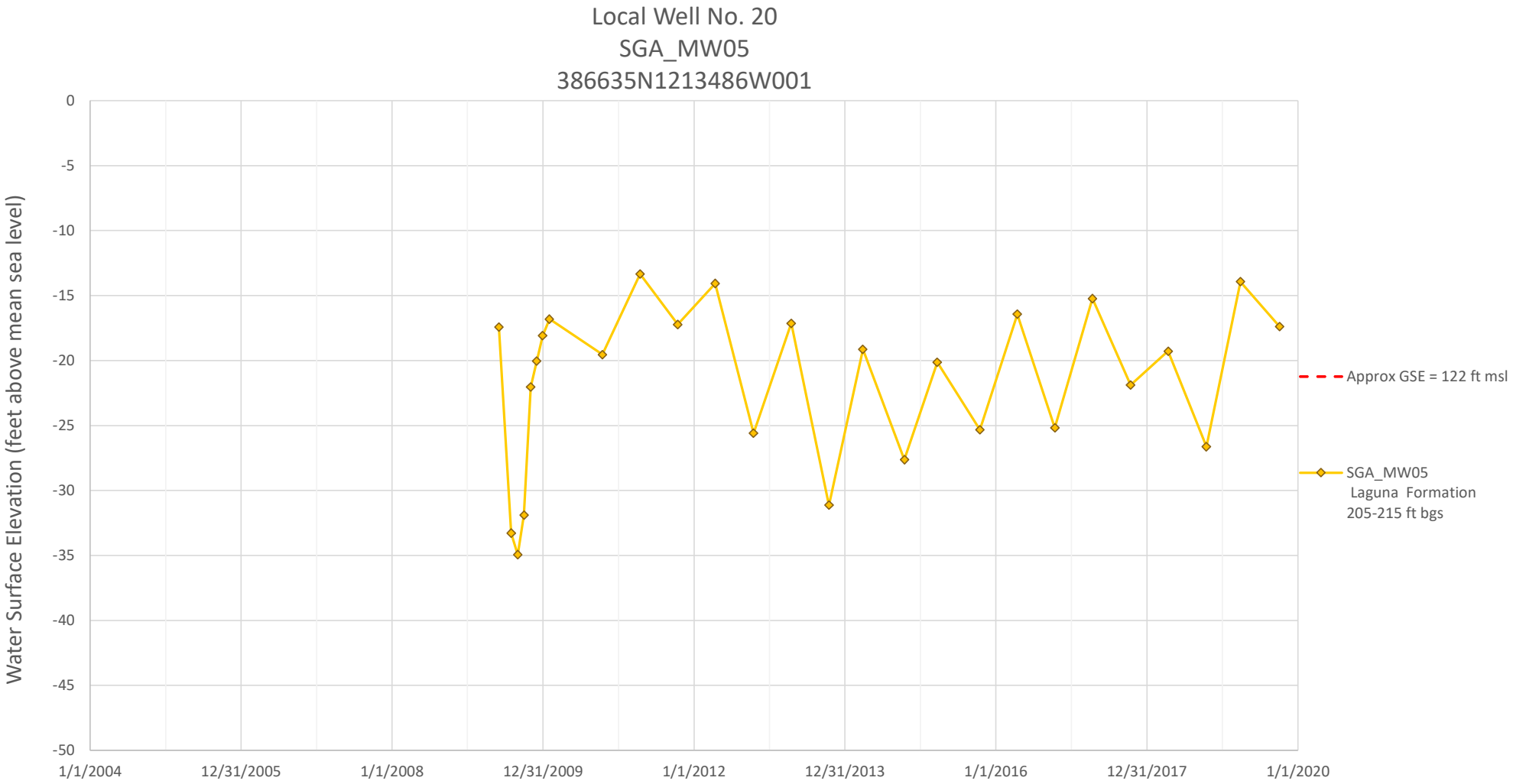



Local Well No. 16
DWR_SGA_002
386410N1213995W001
Water Surface Elevation (feet above mean sea level)
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurement data not available.
Approx GSE = 69 ft msl
DWR_SGA_002
Mehrten Formation
550 ft bgs

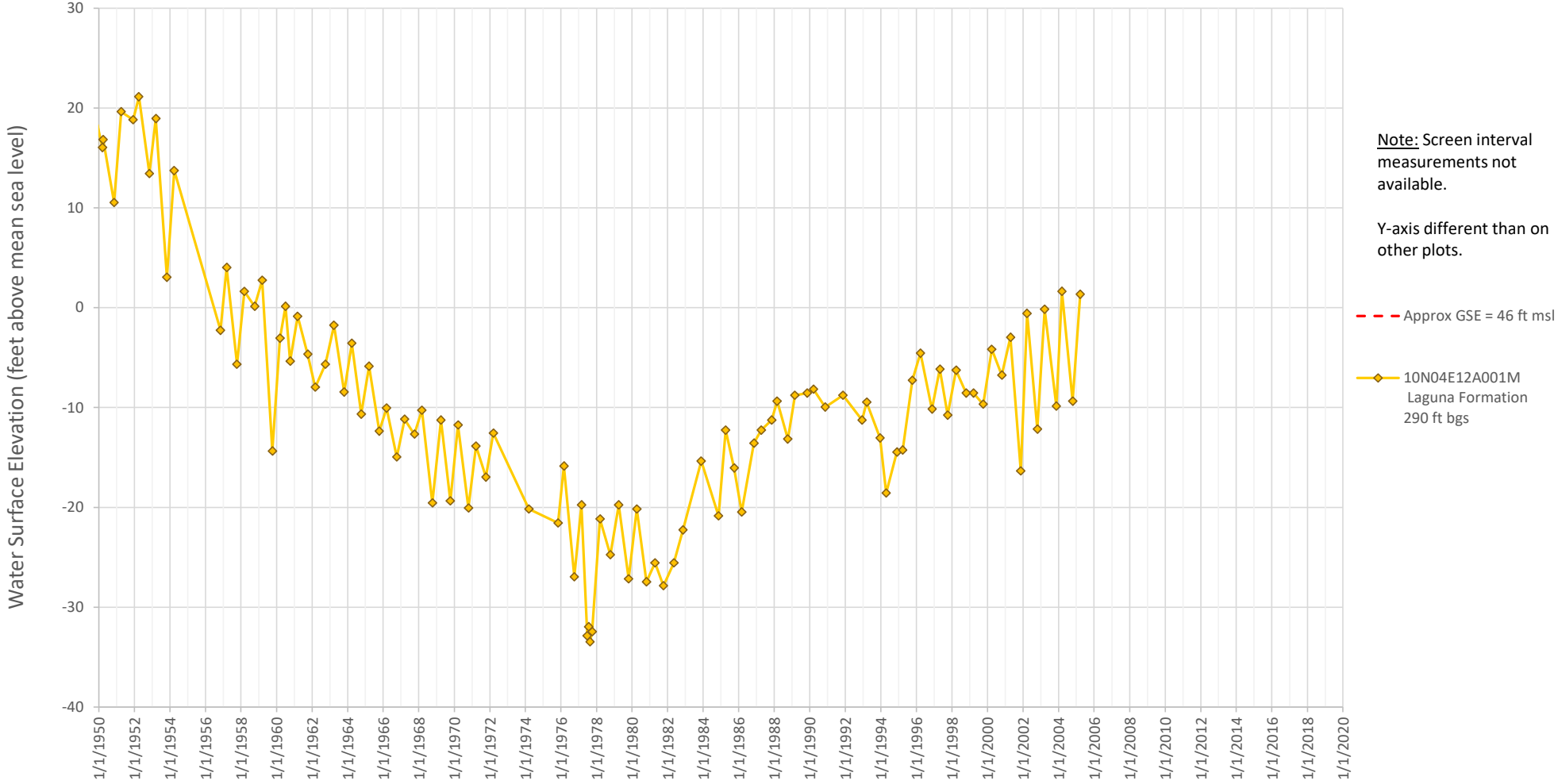
Local Well No. 19
SCWA_SGA_001
386576N1214846W001



Note: Screen interval measurements not available.


Local Well No. 20
SGA_MW05
386635N1213486W001
Water Surface Elevation (feet above mean sea level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/2004
12/31/2005
1/1/2008
12/31/2009
1/1/2012
12/31/2013
1/1/2016
12/31/2017
1/1/2020
Approx GSE = 122 ft msl
SGA_MW05
Laguna Formation
205-215 ft bgs

Local Well No. 21
10N04E12A001M
387404N1214870W001



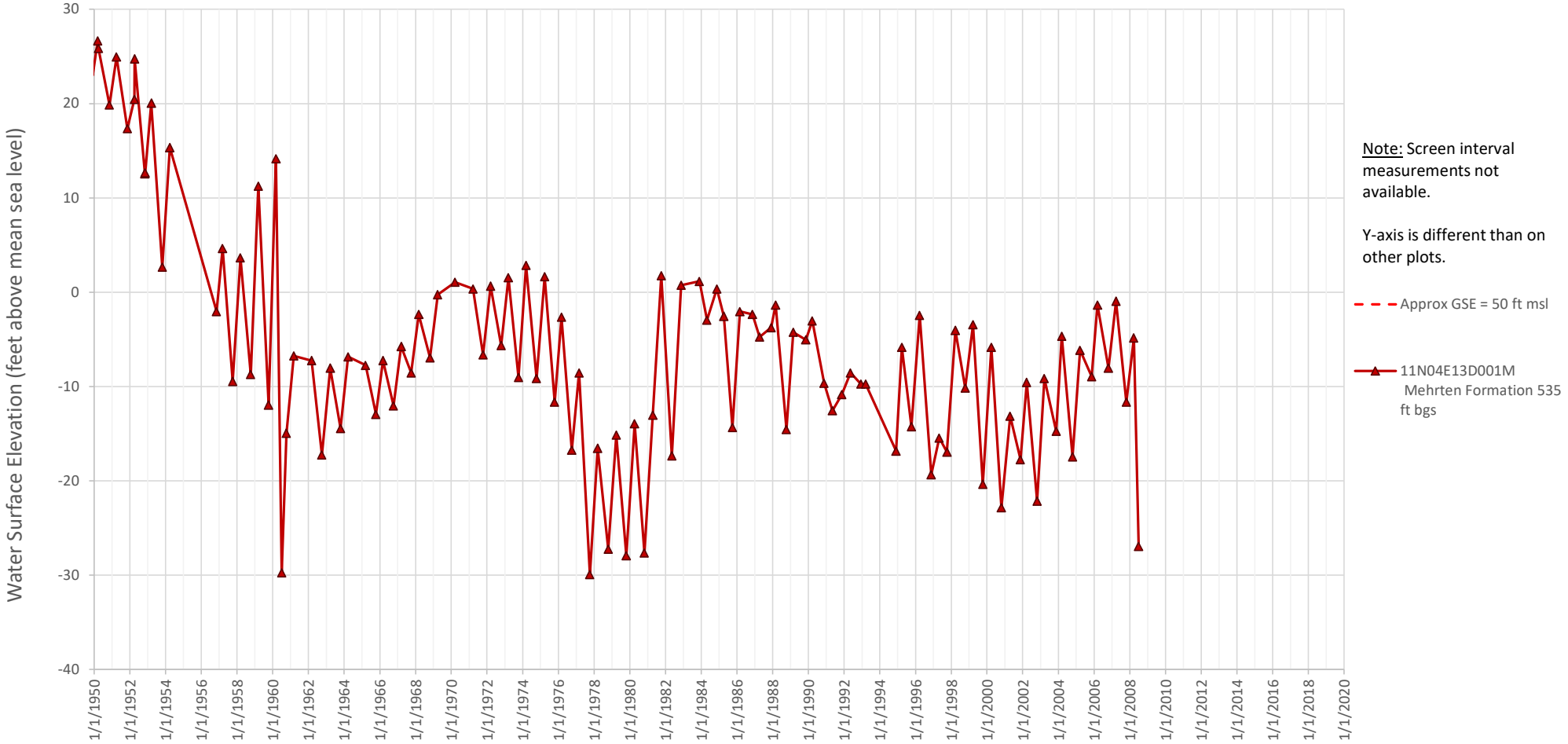
Note: Screen interval measurements not available.

Y-axis different than on other plots.

Approx GSE = 46 ft msl

10N04E12A001M
Laguna Formation
290 ft bgs

Local Well No. 23
11N04E13D001M
388072N1214842W001

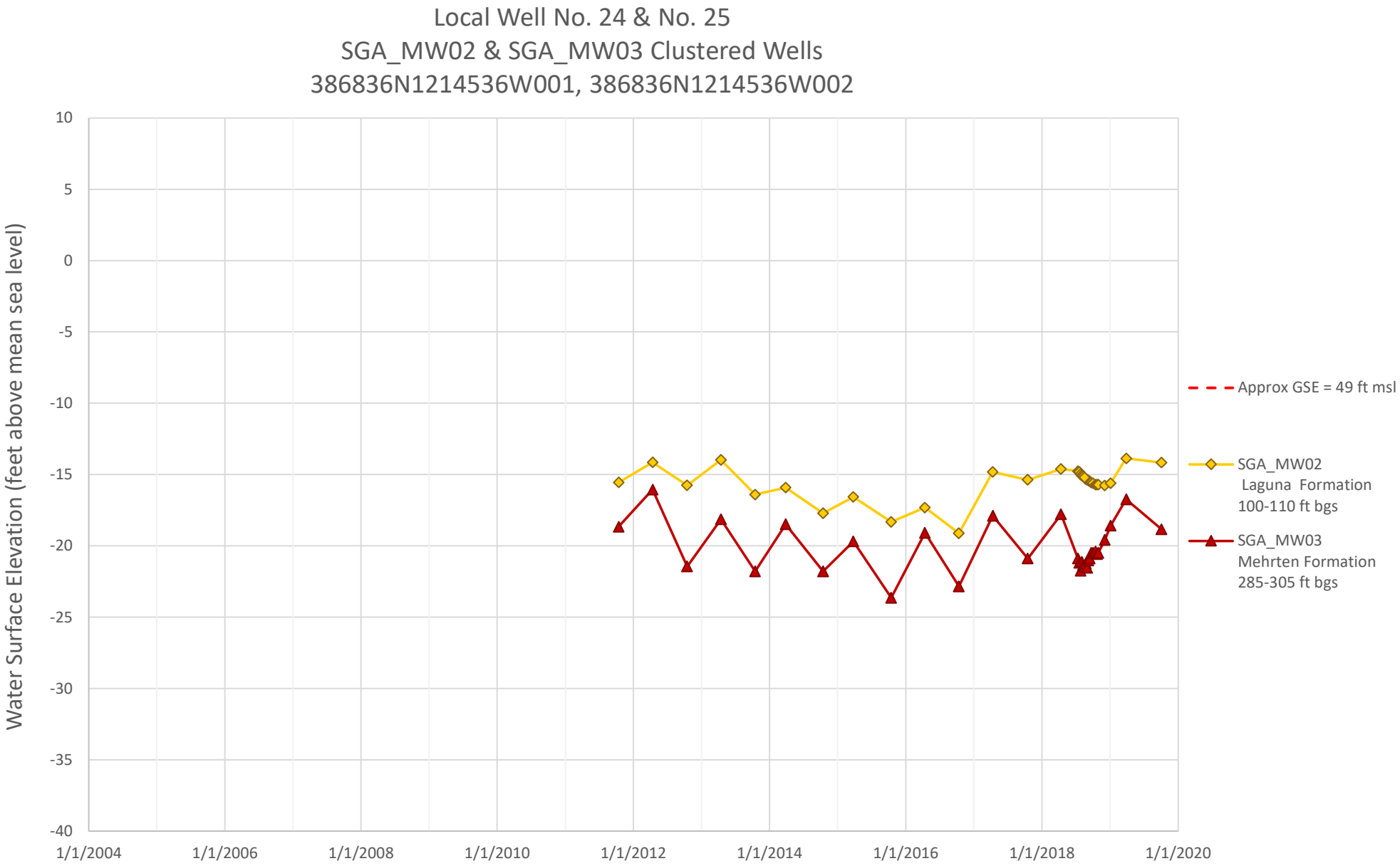


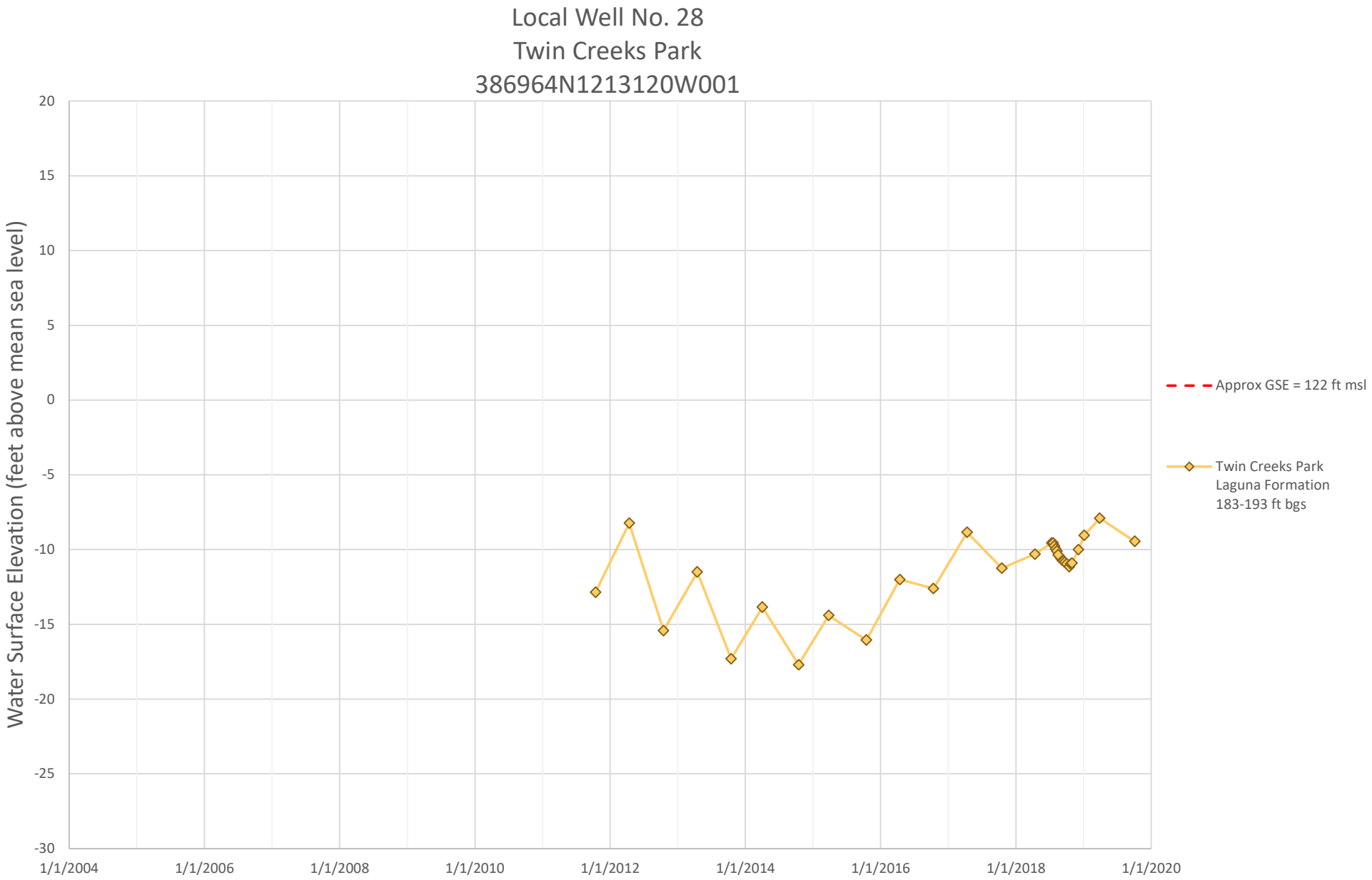
Note: Screen interval measurements not available.

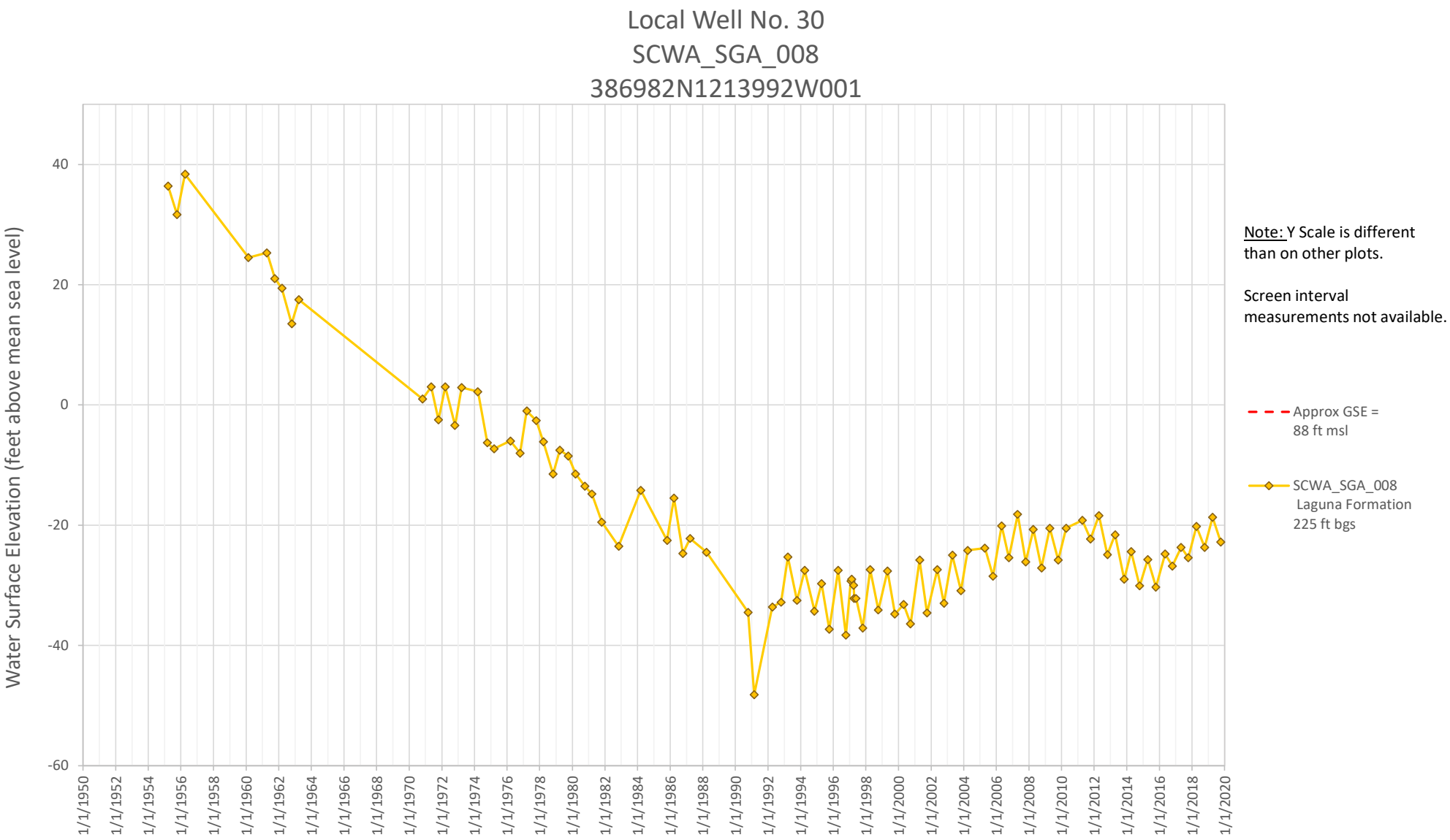
Y-axis is different than on other plots.

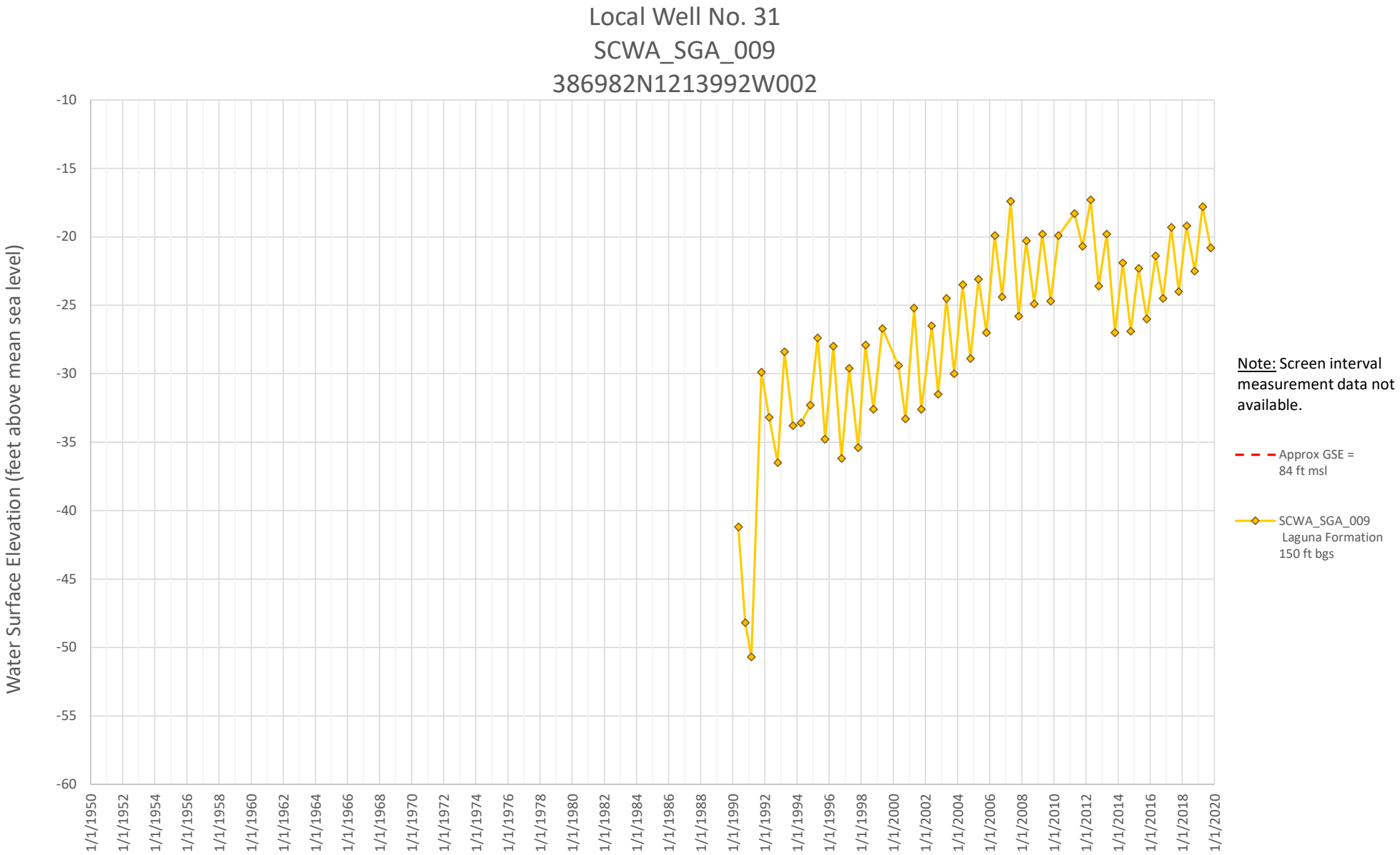
Approx GSE = 50 ft msl

11N04E13D001M Mehrten Formation 535 ft bgs

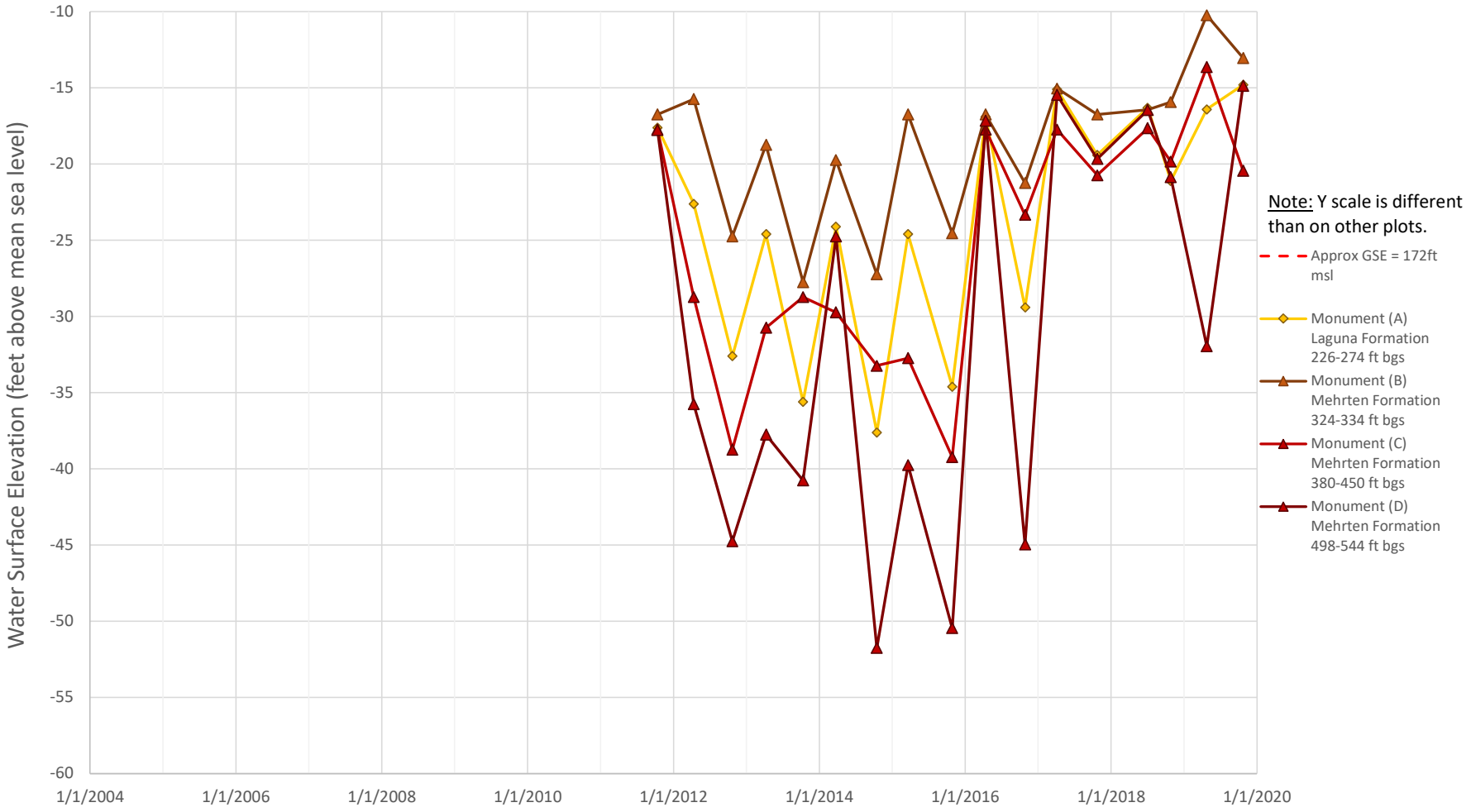

Local Well No. 24 & No. 25
SGA_MW02 & SGA_MW03 Clustered Wells
386836N1214536W001, 386836N1214536W002
Water Surface Elevation (feet above mean sea level)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 49 ft msl
SGA_MW02
Laguna Formation
100-110 ft bgs
SGA_MW03
Mehrten Formation
285-305 ft bgs

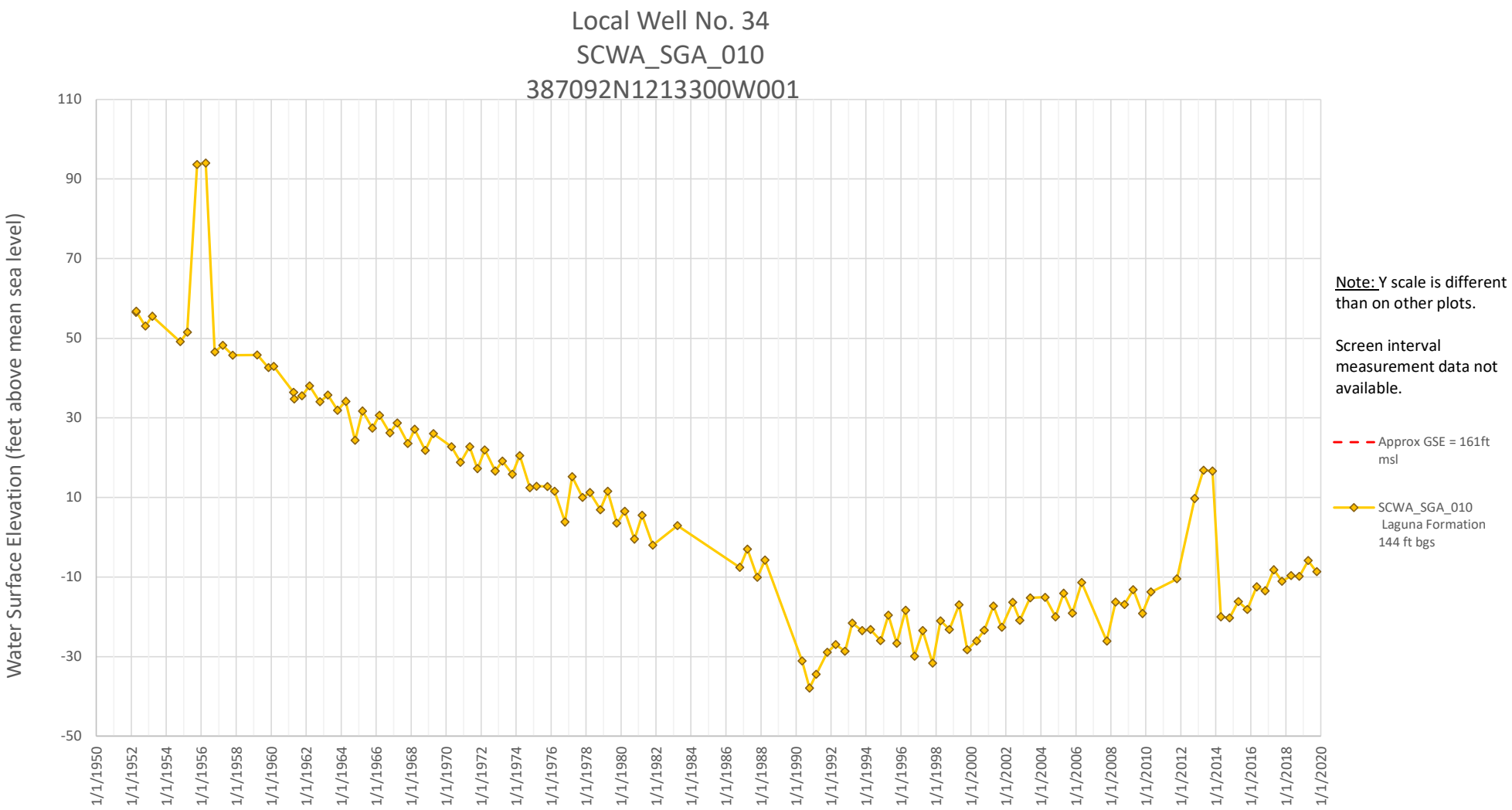

Local Well No. 28
Twin Creeks Park
386964N1213120W001
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 122 ft msl
Twin Creeks Park
Laguna Formation
183-193 ft bgs


Local Well No. 30
SCWA_SGA_008
386982N1213992W001
Water Surface Elevation (feet above mean sea level)
40
20
0
-20
-40
-60
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y Scale is different than on other plots.
Screen interval measurements not available.
Approx GSE = 88 ft msl
SCWA_SGA_008 Laguna Formation 225 ft bgs

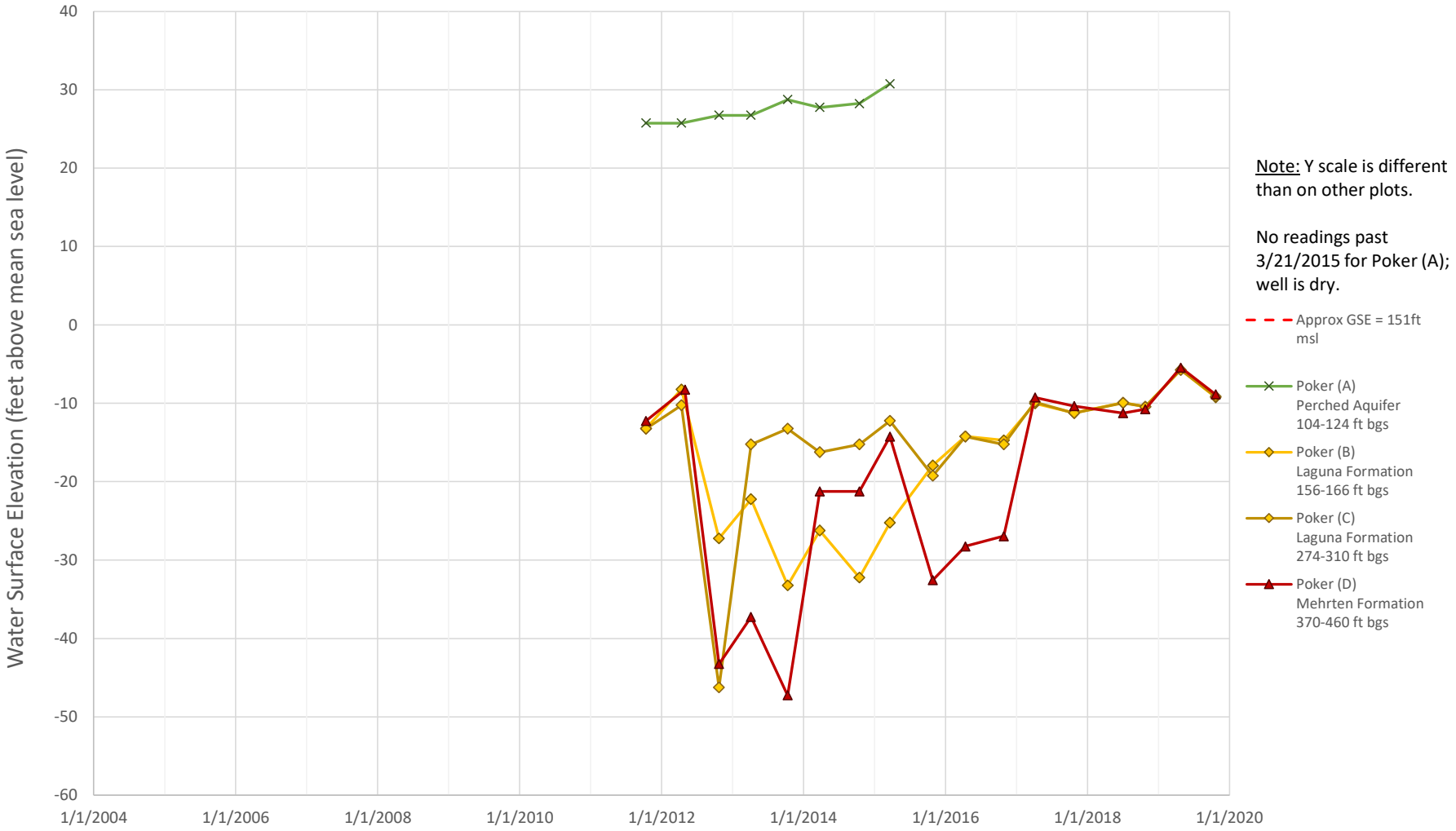

Local Well No. 31
SCWA_SGA_009
386982N1213992W002
Water Surface Elevation (feet above mean sea level)
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurement data not available.
Approx GSE = 84 ft msl
SCWA_SGA_009 Laguna Formation 150 ft bgs

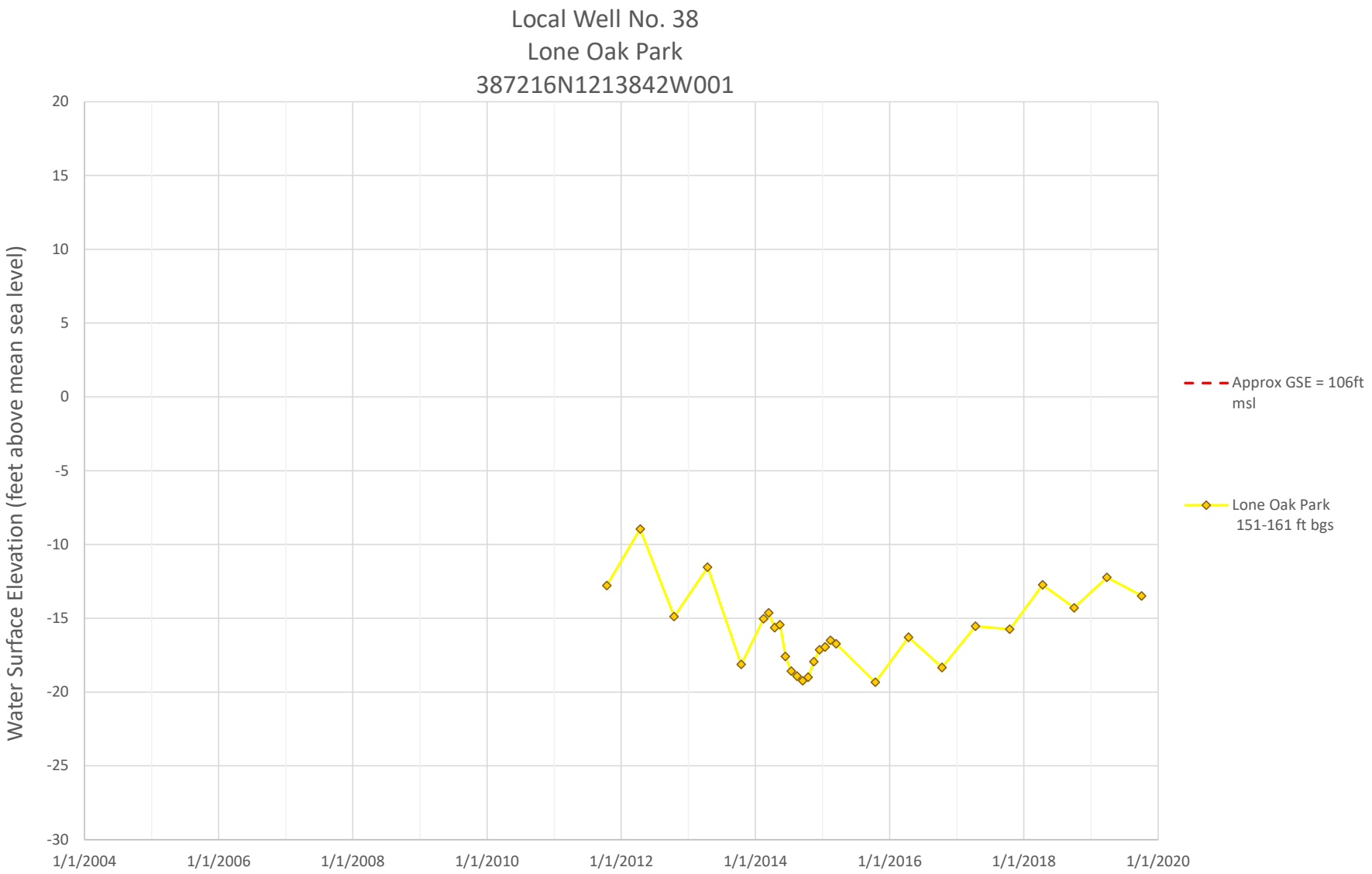
Local Well No. 33
Monument Nested Well
387000N1213529W001, 387000N1213529W002, 387000N1213529W003, 387000N1213529W004

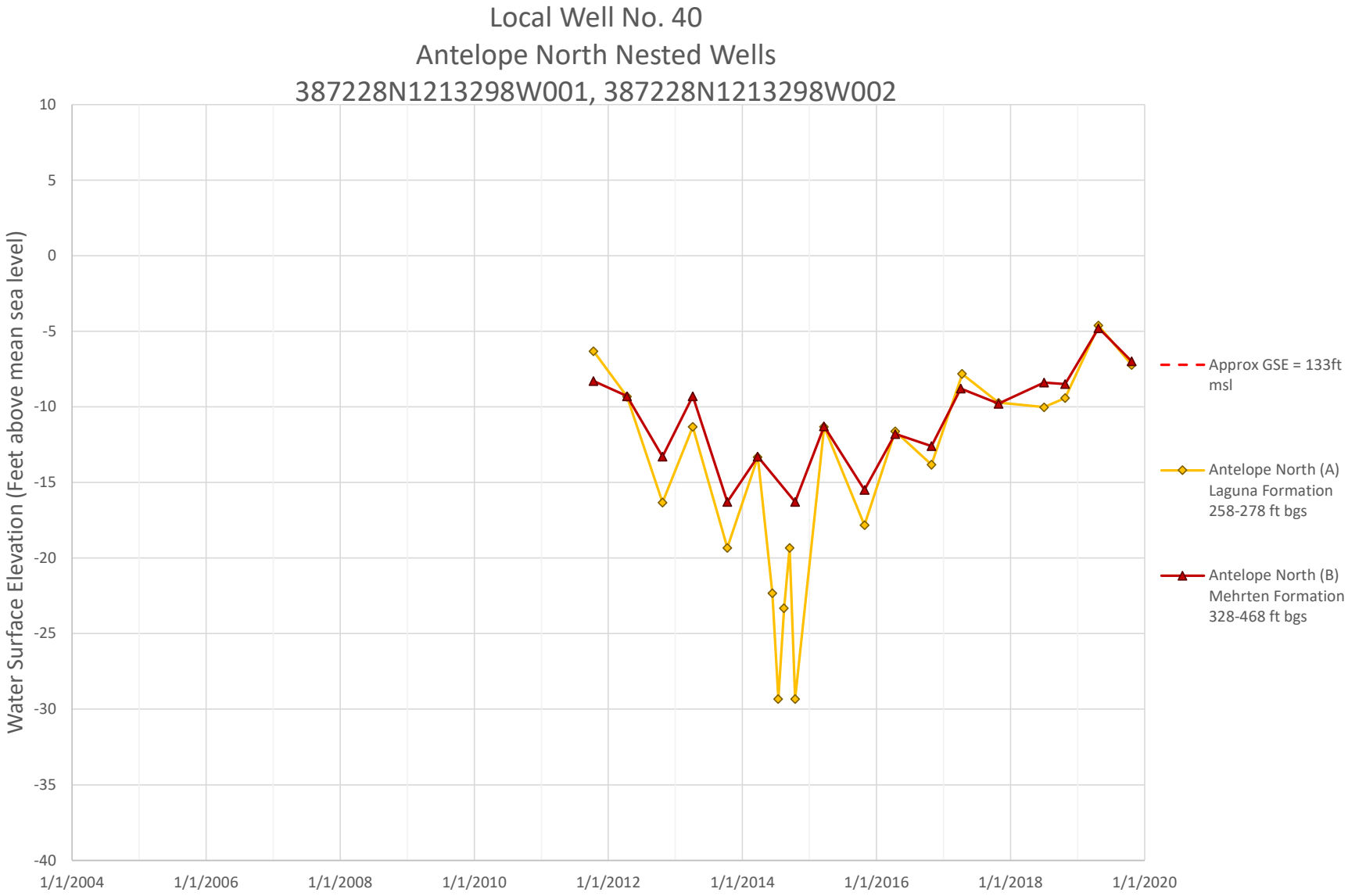



Local Well No. 34
SCWA_SGA_010
387092N1213300W001
Water Surface Elevation (feet above mean sea level)
110
90
70
50
30
10
-10
-30
-50
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen interval measurement data not available.
Approx GSE = 161ft msl
SCWA_SGA_010
Laguna Formation
144 ft bgs

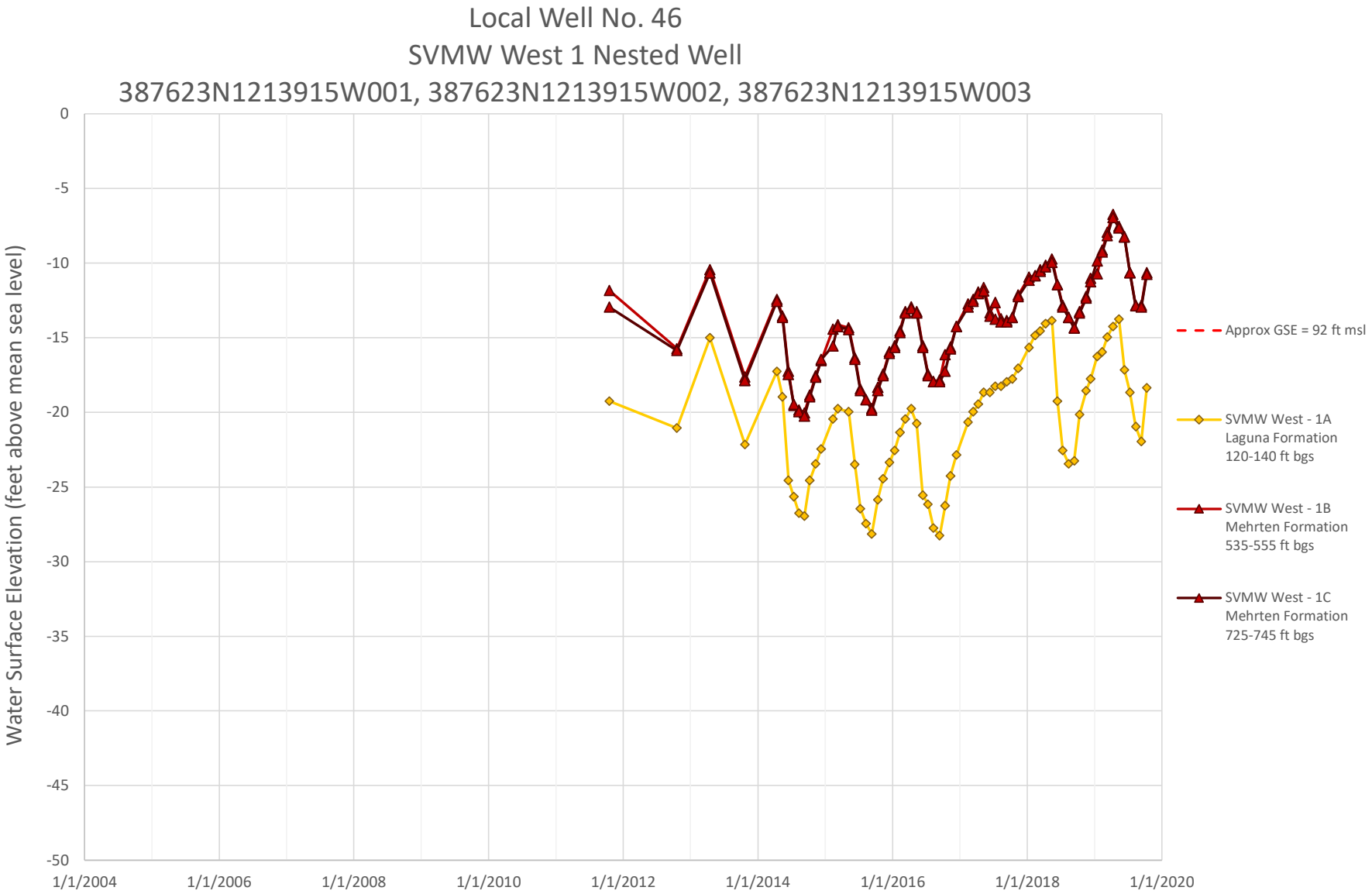
Local Well No. 35
Poker Nested Well
387117N1213327W001, 387117N1213327W002, 387117N1213327W003, 387117N1213327W004

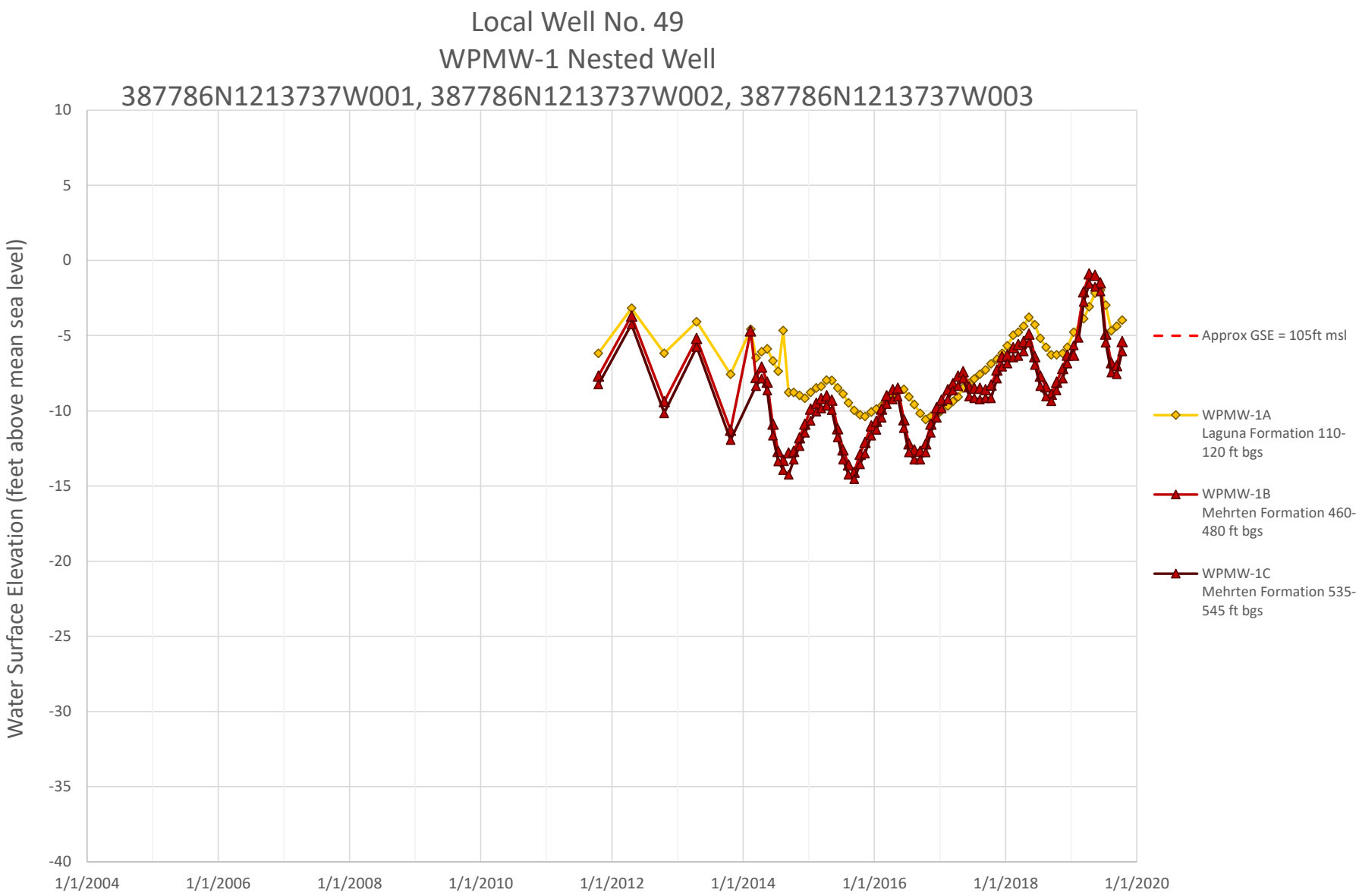


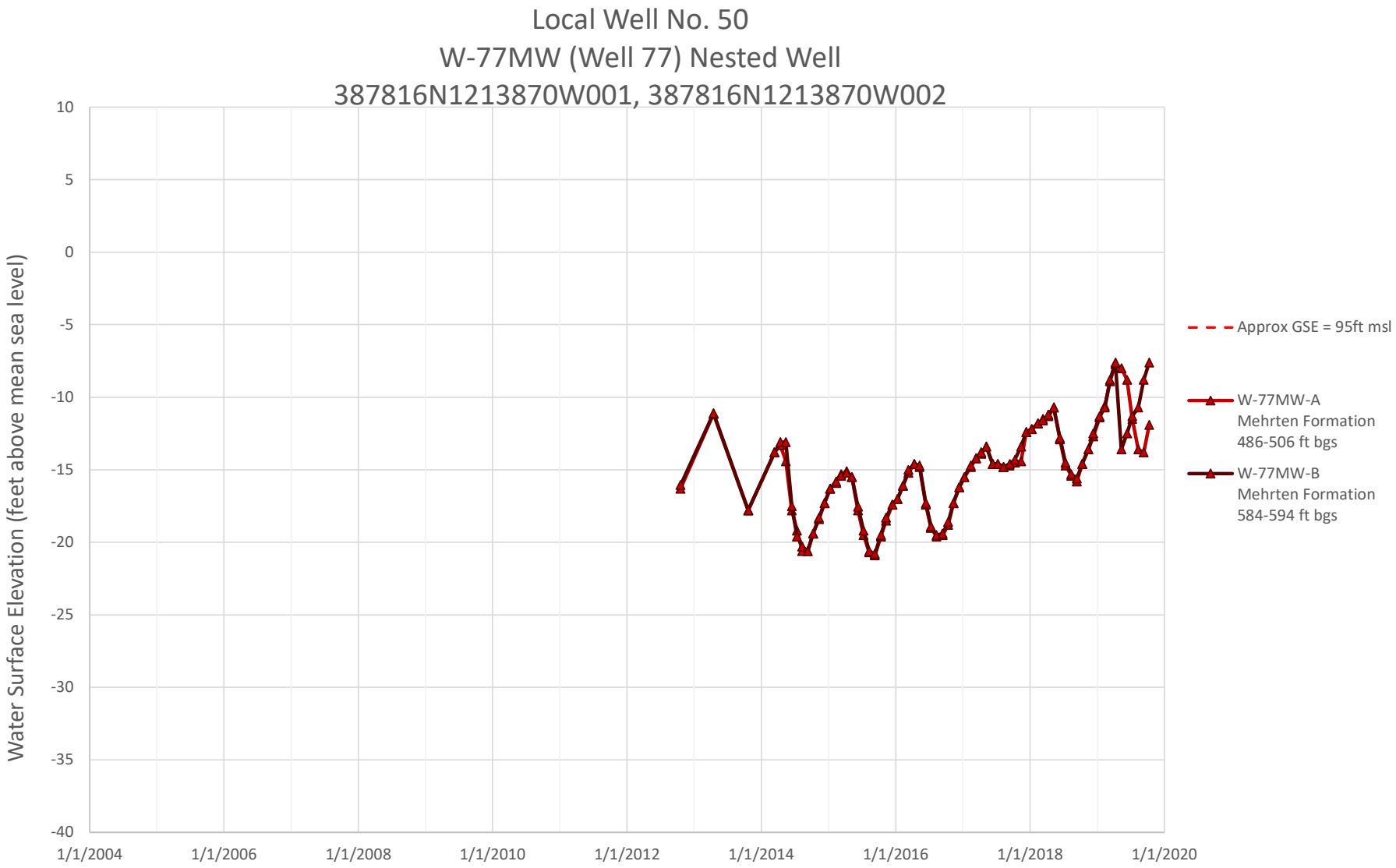

Local Well No. 38
Lone Oak Park
387216N1213842W001
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 106ft msl
Lone Oak Park 151-161 ft bgs

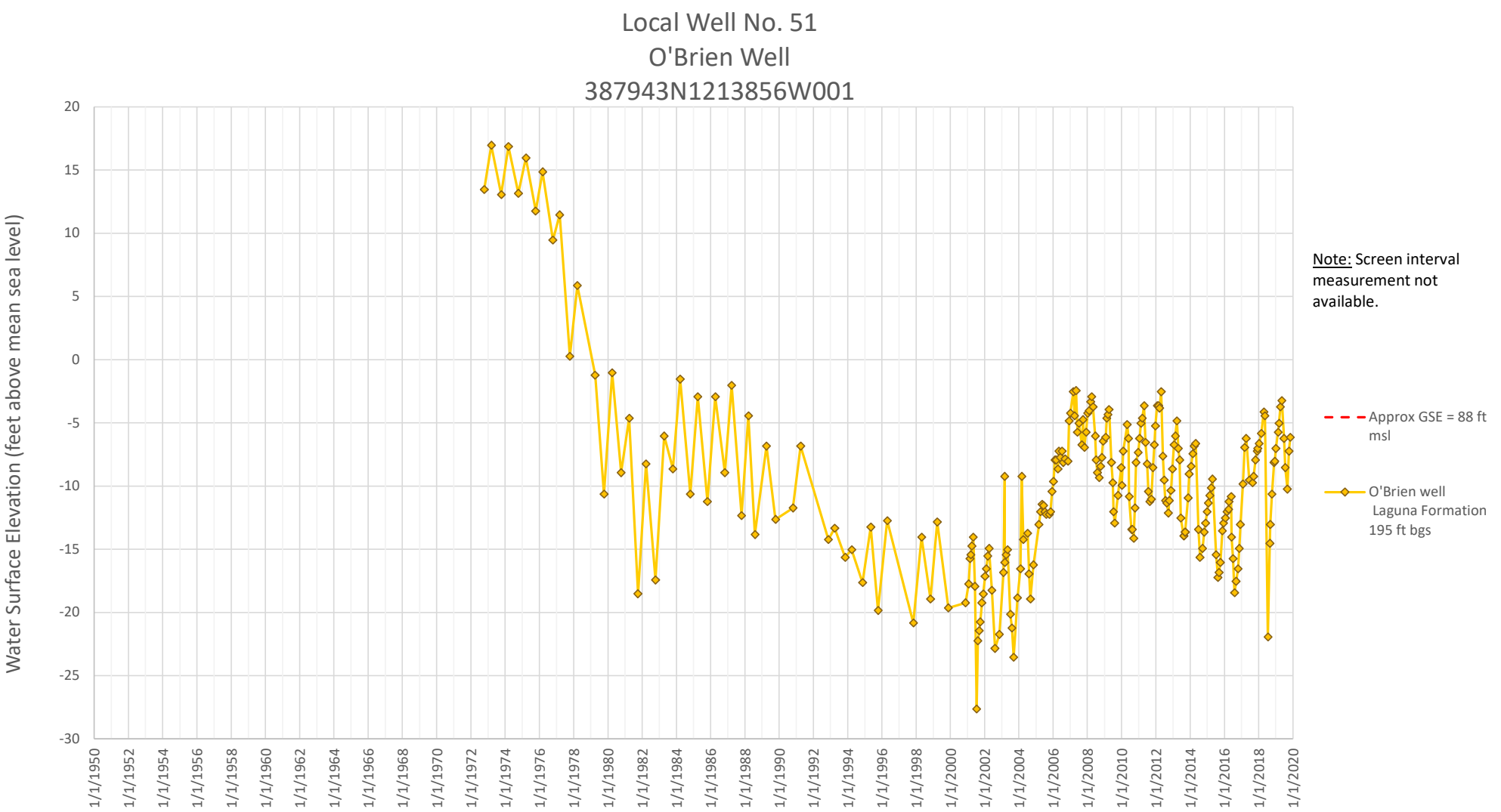

Local Well No. 40
Antelope North Nested Wells
387228N1213298W001, 387228N1213298W002
Water Surface Elevation (Feet above mean sea level)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 133ft msl
Antelope North (A) Laguna Formation 258-278 ft bgs
Antelope North (B) Mehrten Formation 328-468 ft bgs

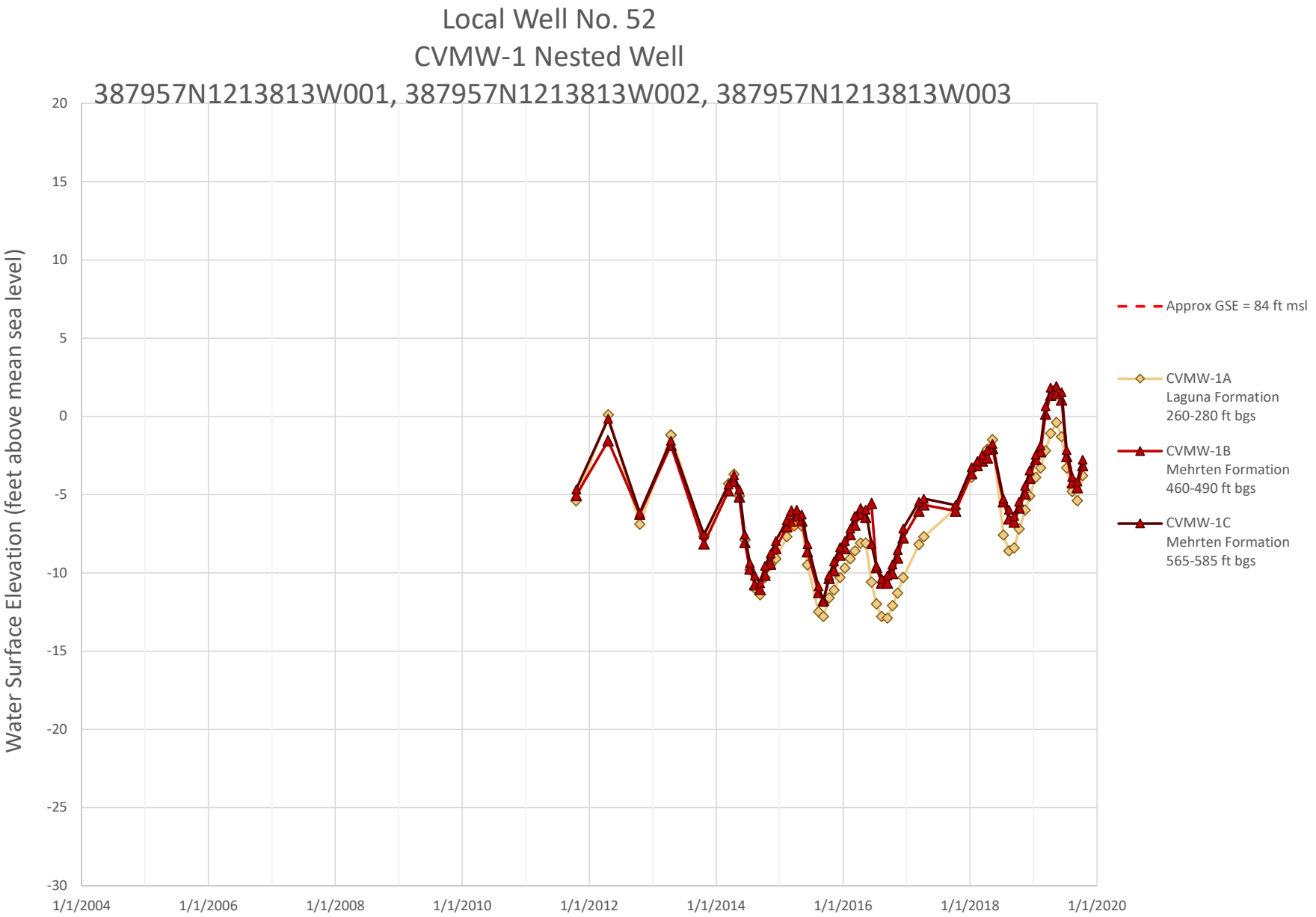

Local Well No. 41
WPMW-5 Nested Well
387331N1213610W001, 387331N1213610W002
Water Surface Elevation (feet above mean sea level)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: WPMW-5A is dry.
Approx GSE = 98ft msl
WPMW-5A Laguna Formation 80-100 ft bgs
WPMW-5B Mehrten Formation 630-650 ft bgs

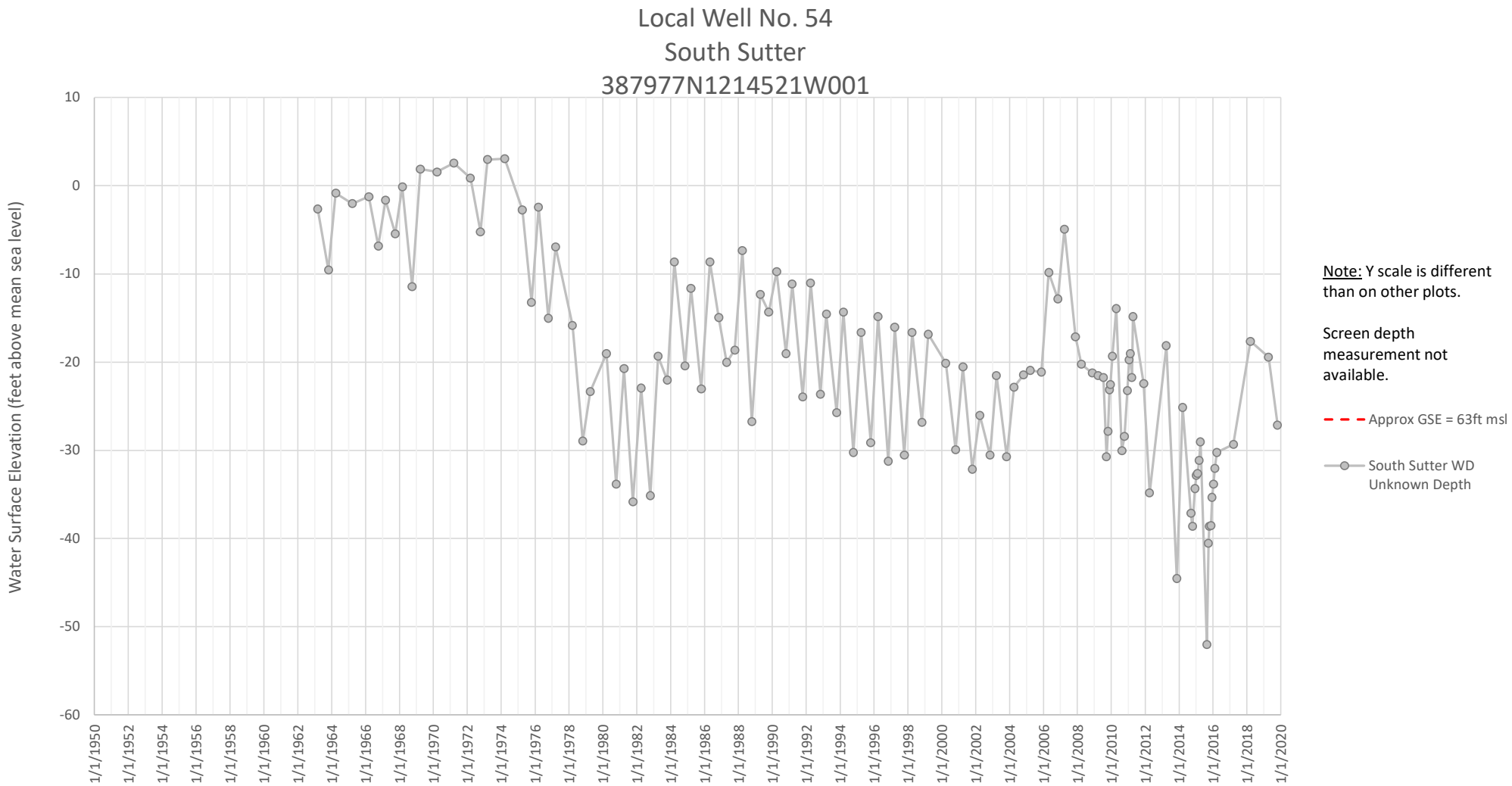

Local Well No. 46
SVMW West 1 Nested Well
387623N1213915W001, 387623N1213915W002, 387623N1213915W003
Water Surface Elevation (feet above mean sea level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 92 ft msl
SVMW West - 1A
Laguna Formation
120-140 ft bgs
SVMW West - 1B
Mehrten Formation
535-555 ft bgs
SVMW West - 1C
Mehrten Formation
725-745 ft bgs

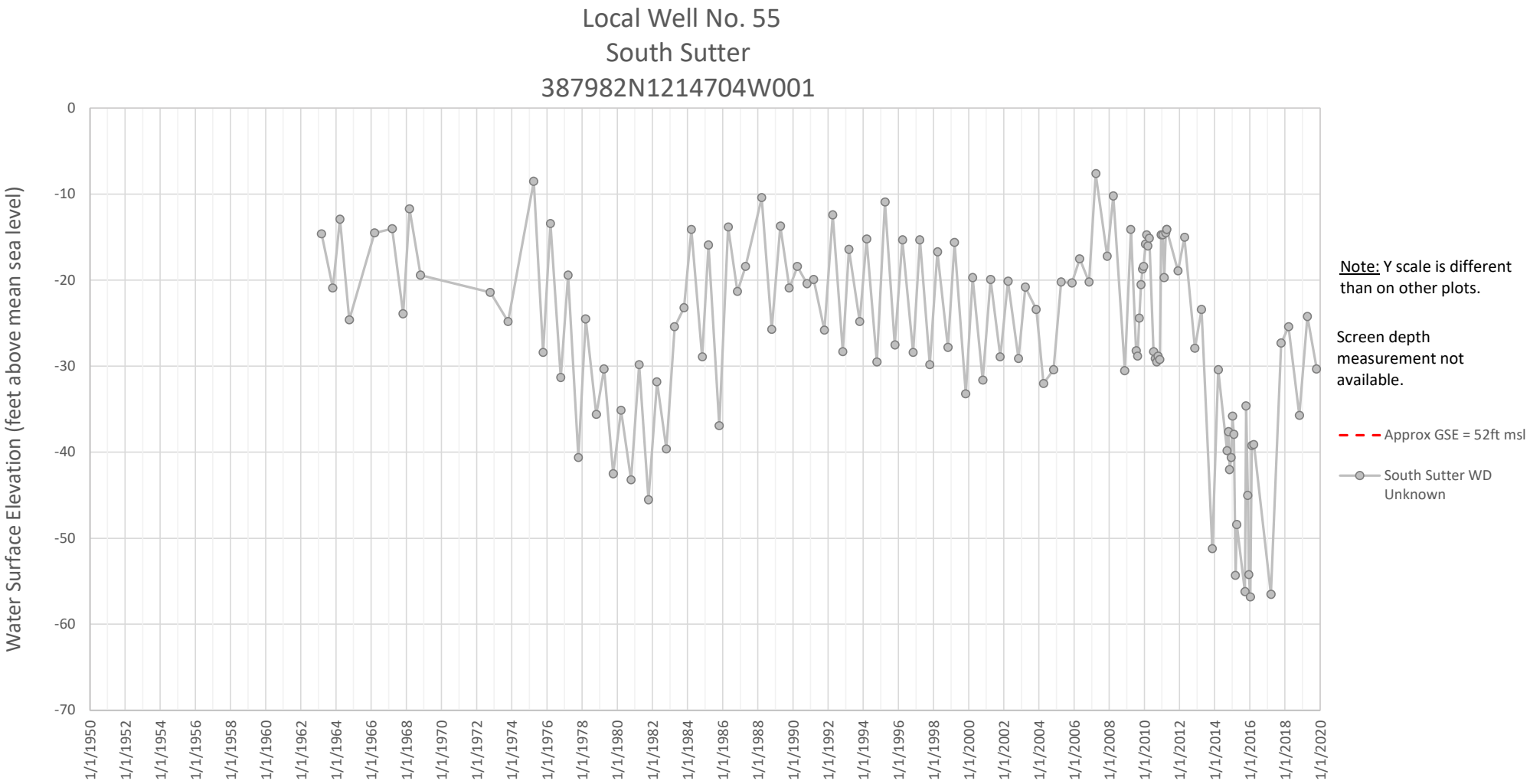

Local Well No. 49
WPMW-1 Nested Well
387786N1213737W001, 387786N1213737W002, 387786N1213737W003
Water Surface Elevation (feet above mean sea level)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 105ft msl
WPMW-1A
Laguna Formation 110-120 ft bgs
WPMW-1B
Mehrten Formation 460-480 ft bgs
WPMW-1C
Mehrten Formation 535-545 ft bgs

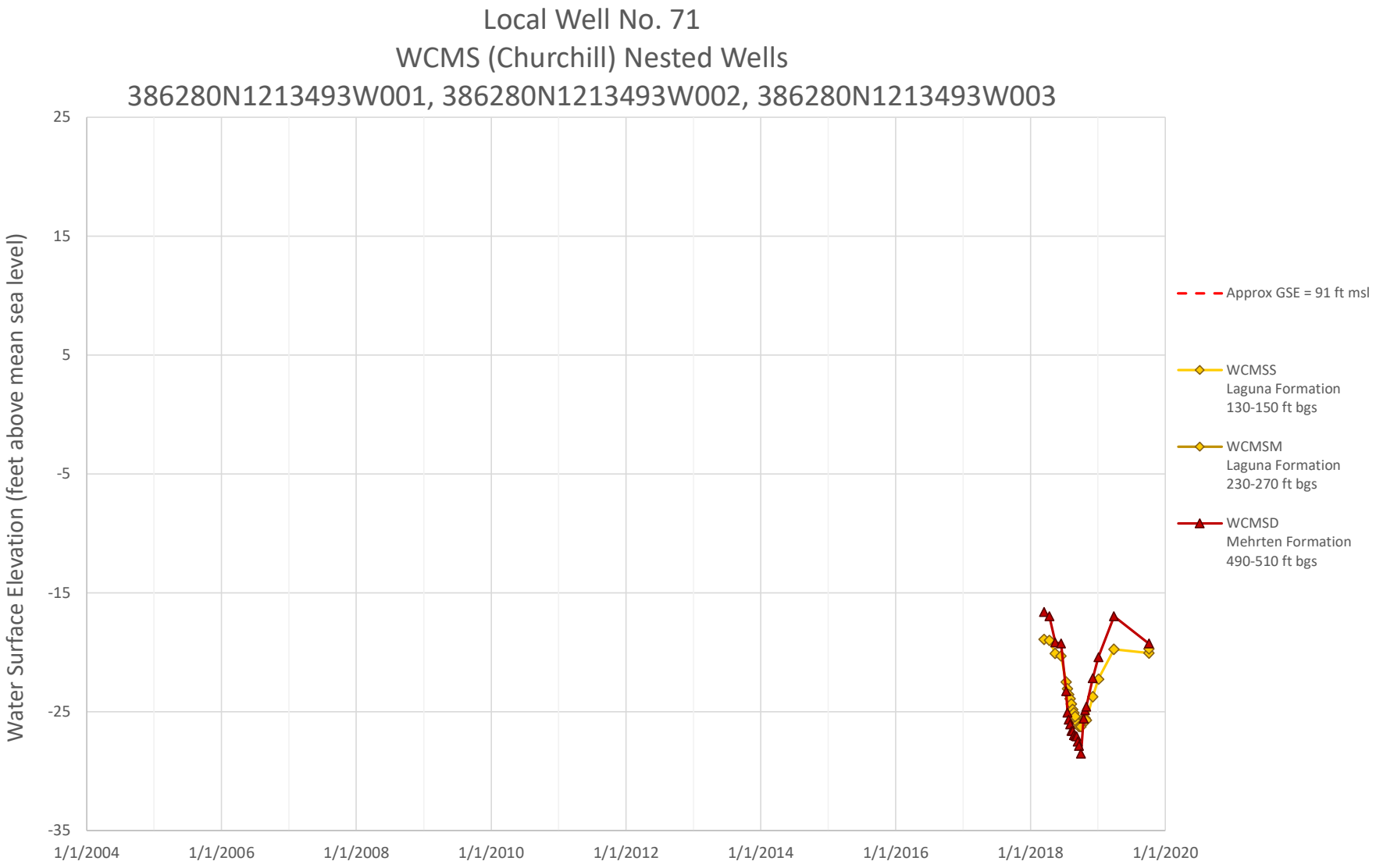

Local Well No. 50
W-77MW (Well 77) Nested Well
387816N1213870W001, 387816N1213870W002
Water Surface Elevation (feet above mean sea level)
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 95ft msl
W-77MW-A
Mehrten Formation
486-506 ft bgs
W-77MW-B
Mehrten Formation
584-594 ft bgs

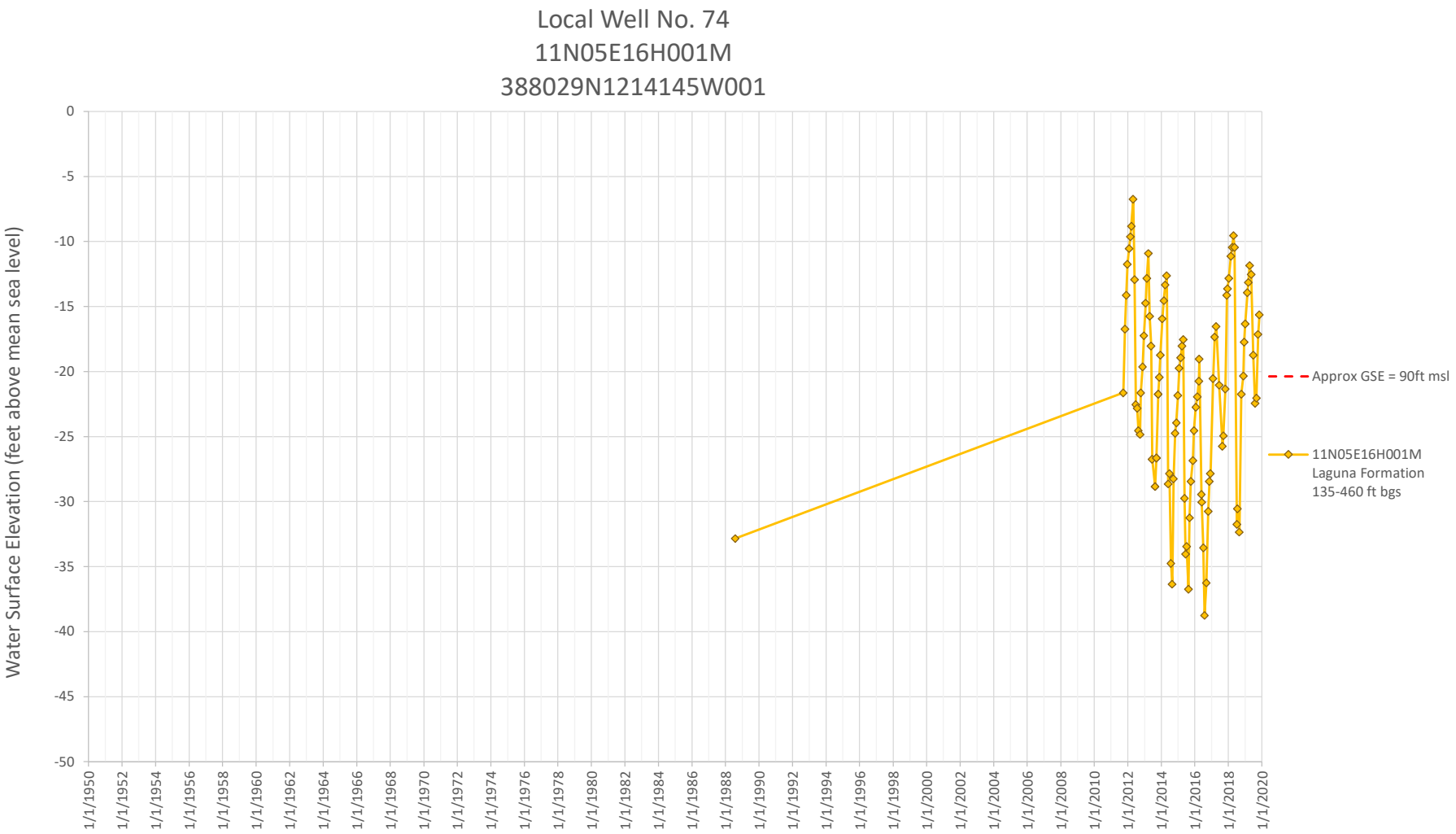

Local Well No. 51
O'Brien Well
387943N1213856W001
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Screen interval measurement not available.
Approx GSE = 88 ft msl
O'Brien well
Laguna Formation
195 ft bgs


Local Well No. 52
CVMW-1 Nested Well
387957N1213813W001, 387957N1213813W002, 387957N1213813W003
Water Surface Elevation (feet above mean sea level)
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 84 ft msl
CVMW-1A
Laguna Formation
260-280 ft bgs
CVMW-1B
Mehrten Formation
460-490 ft bgs
CVMW-1C
Mehrten Formation
565-585 ft bgs


Local Well No. 54
South Sutter
387977N1214521W001
Water Surface Elevation (feet above mean sea level)
10
0
-10
-20
-30
-40
-50
-60
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen depth measurement not available.
Approx GSE = 63ft msl
South Sutter WD Unknown Depth


Local Well No. 55
South Sutter
387982N1214704W001
Water Surface Elevation (feet above mean sea level)
0
-10
-20
-30
-40
-50
-60
-70
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Note: Y scale is different than on other plots.
Screen depth measurement not available.
Approx GSE = 52ft msl
South Sutter WD Unknown


Local Well No. 71
WCMS (Churchill) Nested Wells
386280N1213493W001, 386280N1213493W002, 386280N1213493W003
Water Surface Elevation (feet above mean sea level)
25
15
5
-5
-15
-25
-35
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 91 ft msl
WCMSS
Laguna Formation
130-150 ft bgs
WCMSM
Laguna Formation
230-270 ft bgs
WCMSD
Mehrten Formation
490-510 ft bgs


Local Well No. 74
11N05E16H001M
388029N1214145W001
Water Surface Elevation (feet above mean sea level)
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
1/1/1950
1/1/1952
1/1/1954
1/1/1956
1/1/1958
1/1/1960
1/1/1962
1/1/1964
1/1/1966
1/1/1968
1/1/1970
1/1/1972
1/1/1974
1/1/1976
1/1/1978
1/1/1980
1/1/1982
1/1/1984
1/1/1986
1/1/1988
1/1/1990
1/1/1992
1/1/1994
1/1/1996
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
Approx GSE = 90ft msl
11N05E16H001M
Laguna Formation
135-460 ft bgs