

Consideration of Alternate Measurable Objective for Declining Groundwater Levels

SHAC Meeting Materials

November 4, 2021

Prepared 10/29/2021

Alternate MO and IM

- Alternative MO based on average 2010-2020 measured groundwater levels in each RMS well, as shown on the hydrographs. The MO based on projected levels to 2030 is also shown on the graphs for comparison (as documented in the Public Review Draft of the GSP)
- If the Alternative MO is selected, staff recommends keeping the 2027 and 2032 IM as defined in Table 3-1 (see next slide). However, 2037 IM would be set roughly halfway between the 2032 IM and the Alternative MO.
- Spring levels would be compared against the MO/IM during annual report evaluations

MO= Measurable Objective

IM= Interim Milestone

RMS= Representative Monitoring Site

Table 3-1: Groundwater Levels SMC by RMS in Feet Above Mean Sea Level							
v.10/29/2021							
RMS Well ID	MT	Alt 1 MO	MO	IM			
				2027	2032	Alt 2037	2037
Vina Subbasin – North Management Area							
25C001M	50	135	130	131	130	132	130
10E001M	80	154	136	139	136	145	136
07H001M ^a	72	163	136	145	136	150	136
05M001M	31	127	115	116	115	121	115
36P001M	45	124	108	110	108	116	108
33A001M	72	143	125	126	125	134	125
Vina Subbasin – Chico Management Area							
CWSCH01b	85	121	106	108	106	113	106
CWSCH02		121	105	108	105	113	105
CWSCH03		119	108	110	108	113	108
CWSCH07		TBD	108	109	108	TBD	108
28J005		124	108	109	108	116	108
28J003M **		130	110	111	110	120	110
Vina Subbasin – South Management Area							
21C001M	10	90	64	66	64	77	64
18C003M	65	151	130	134	130	140	130
10C002M	20	98	92	95	92	95	92
24C001M	18	105	77	82	77	91	77
09L001M	30	109	91	94	91	100	91
26E005M	36	108	95	96	95	101	95
Note:							
^a MO is associated with GSP Well ID 18A001M.							
** to replace 28J005							

Table 4-5: Groundwater Levels RMS Well Construction Details						
v.10/29/2021						
RMS Well ID	State Well Number (Site Name)	Total Depth (feet bgs)	Screened Interval (feet bgs)	Reference Point Elevation¹ (fe	Reference Point Description	Ground Surface Elevation¹ (feet)
Vina Subbasin – North Management Area						
25C001M	23N02W25C001M	243	N/A	161.2	Hole cut in side of casing	157.4
10E001M	23N01W10E001M	668	600-668	190.68	One inch hole inside pump base	189.38
07H001M	23N01E07H001M	195	115-195	283	Top of casing, remove blue cap	282
05M001M	22N01W05M001M	200	N/A	153.28	Hole in pump south side	151.48
36P001M	23N01W36P001M	165	N/A	164.35	Top of casing crack in north side	162.75
33A001M	23N01E33A001M	506	53-506	252.34	One inch hole in top of casing	252.34
Vina Subbasin – Chico Management Area						
CWSCH01b	CWSCH01b	>600	---	200	N/A	---
CWSCH02	CWSCH02	>600	---	183	N/A	---
CWSCH03	CWSCH03	>600	---	258	N/A	---
CWSCH07	CWSCH07	<600	---	270	N/A	---
28J005M	22N01E28J005M	948	740-800	179.79	Top of casing easterly 1" casing	178.89
28J003M **	22N01E28J003M	320	200-279	179.79	Top of casing easterly 1" casing	178.29
Vina Subbasin – South Management Area						
21C001M	21N01E21C001M	565	240-300 448-508	133.64	Hole in pump base west side	133.34
18C003M	21N02E18C003M	240	130-140 160-170 190-200	191.15	Top of shortest PVC casing	189.07
10C002M	20N01E10C002M	210	20-120	128.35	Top of casing south side	127.35
24C001M	20N02E24C001M	155	124-134	159.65	Top of casing, northern-most piezo	157.75
09L001M	20N02E09L001M	710	460-710	143.83	Hole in pump base, southeast side	139.33
26E005M	21N02E26E005M	315	265-275 280-290	184.44	Top of next to shortest PVC casing	182.26

** Replace 28J005

Hydrographs for Representative Monitoring Wells

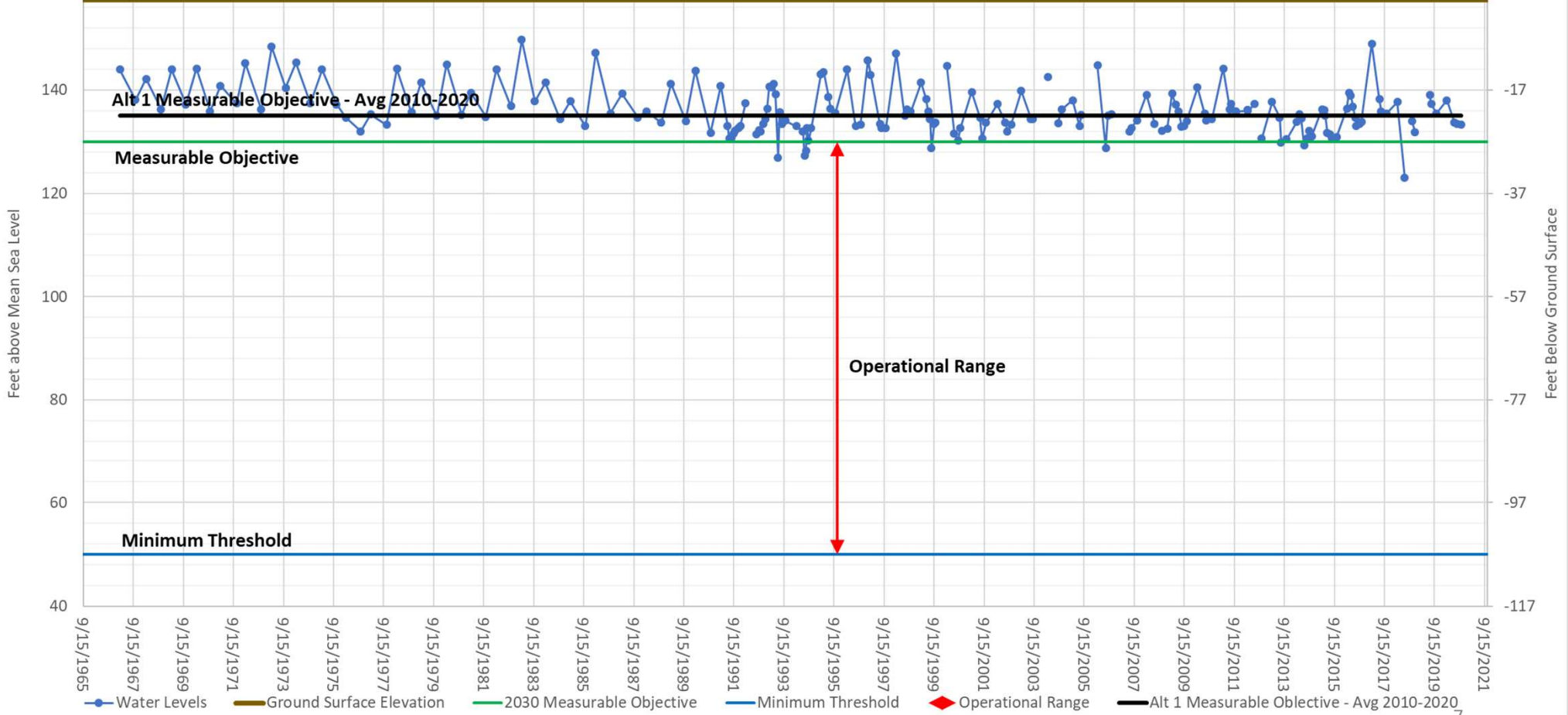
Vina Subbasin

v. 10/29/2021

Vina North Management Area

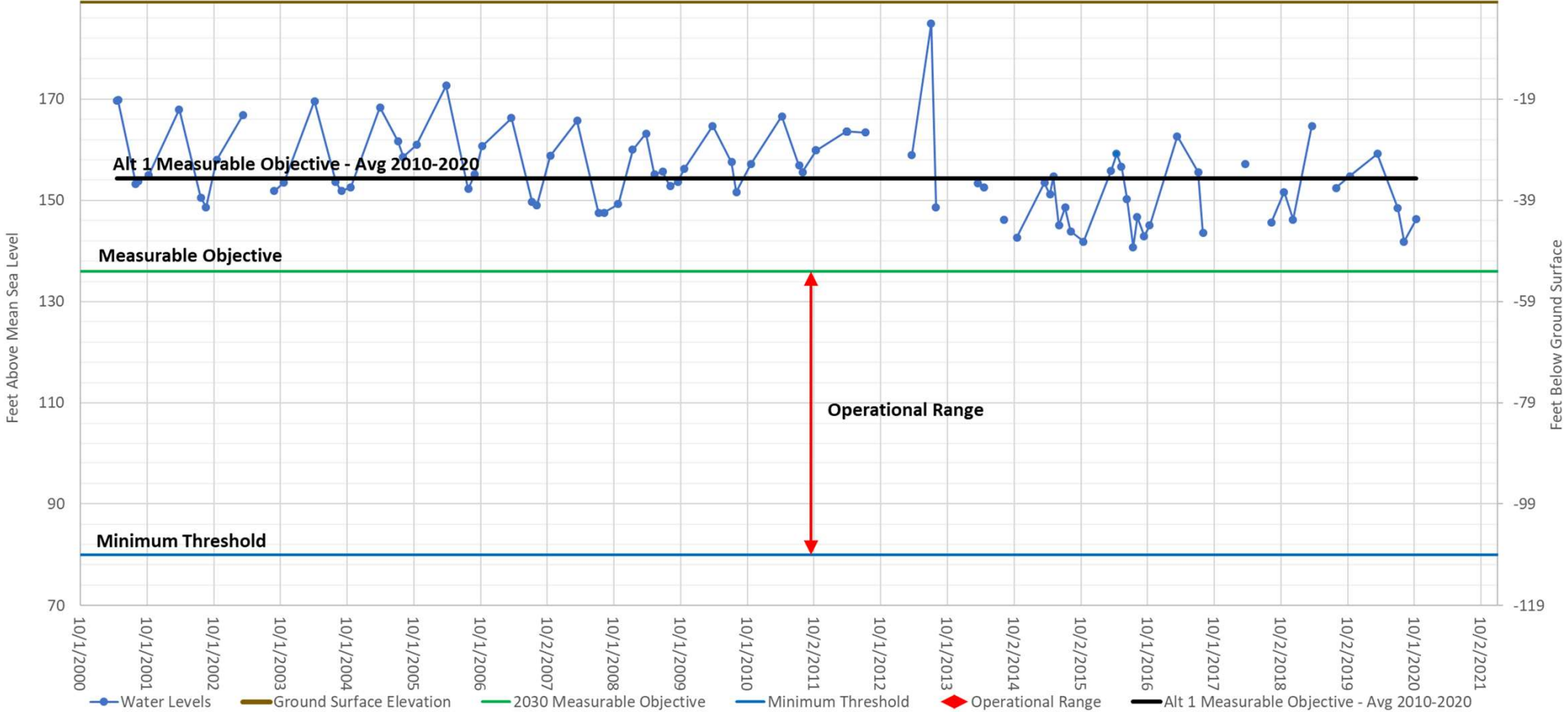
RMS Well 25C001M

Ground Surface Elevation



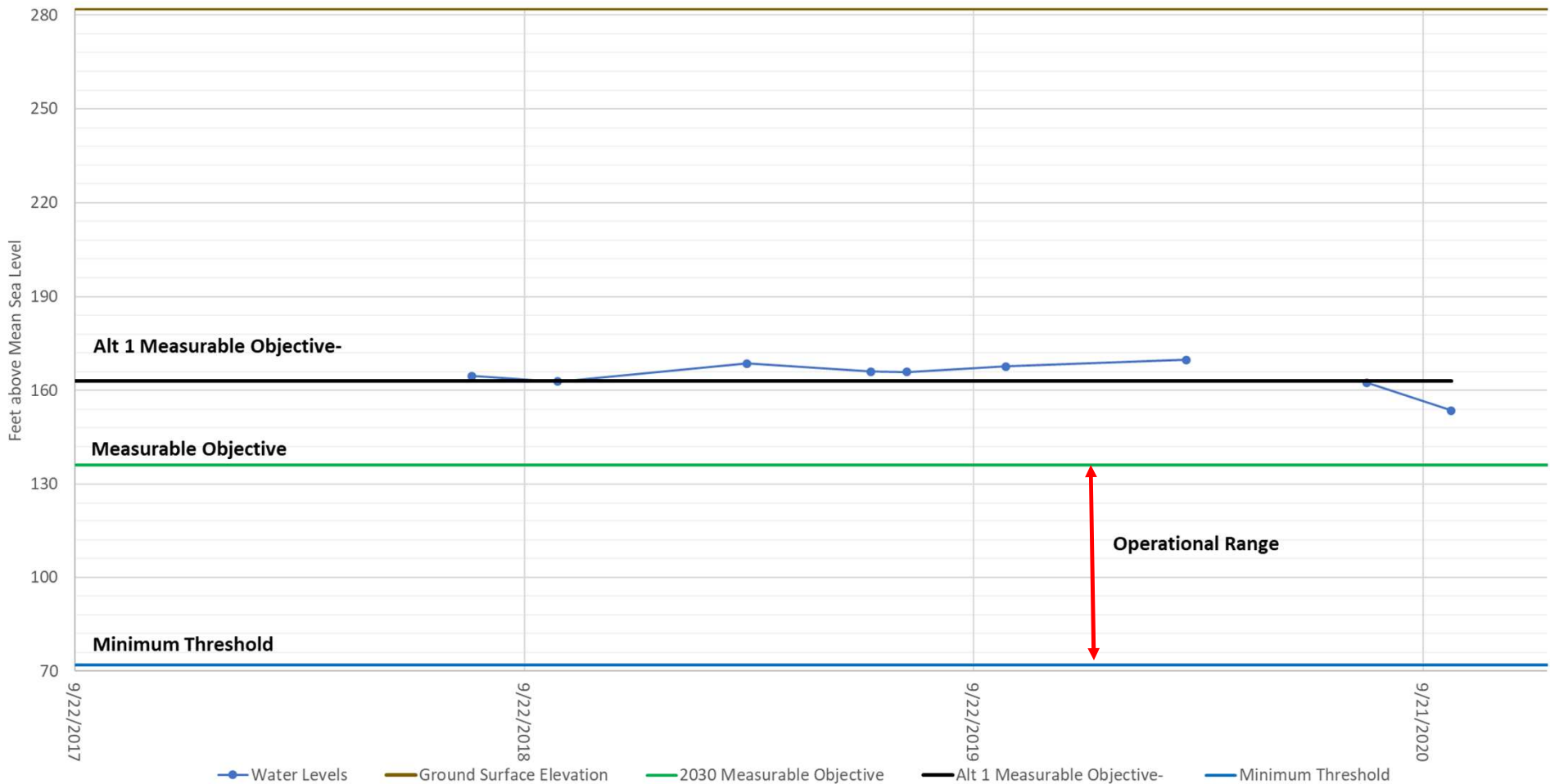
RMS Well 10E001M

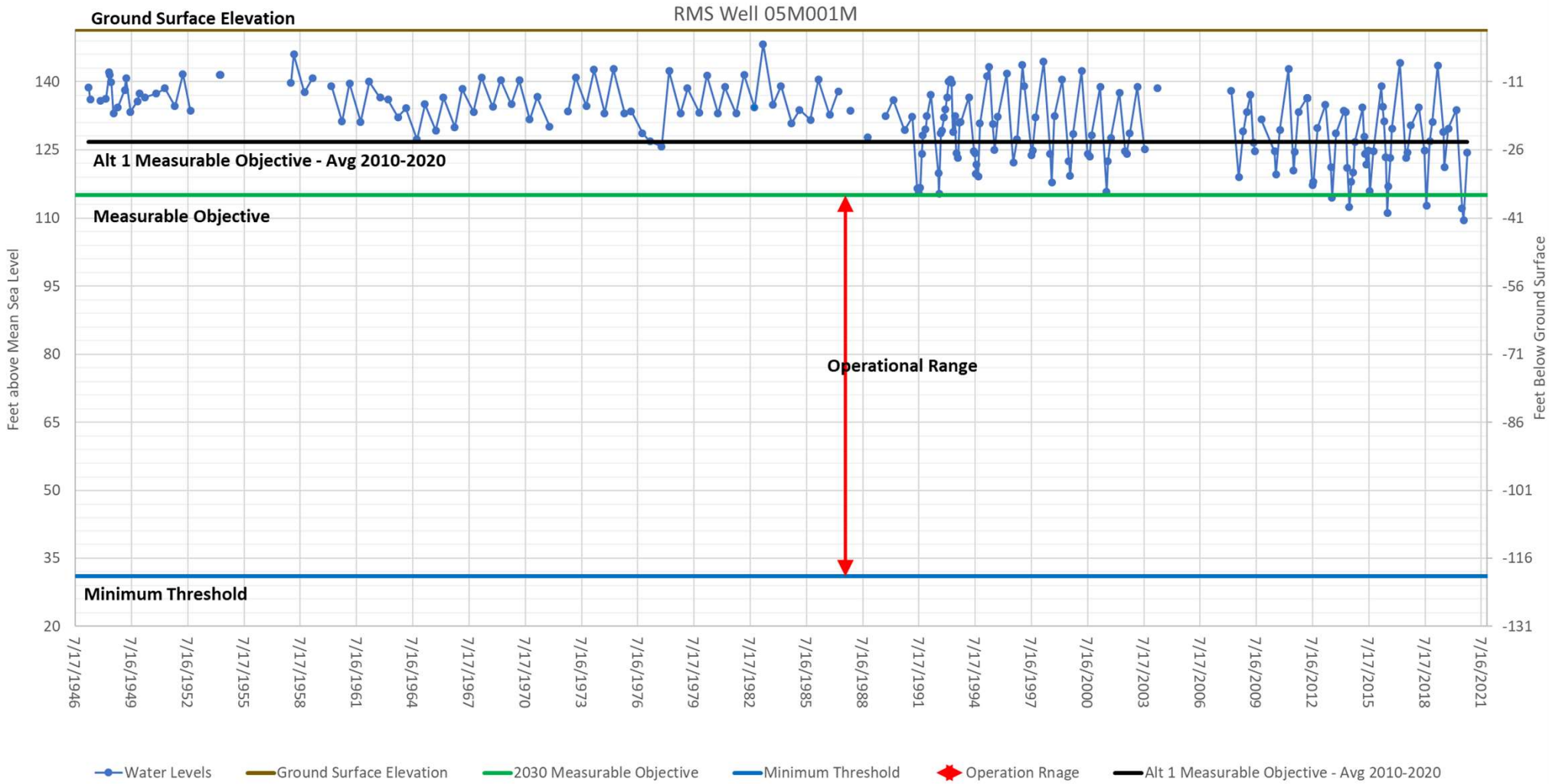
Ground Surface Elevation



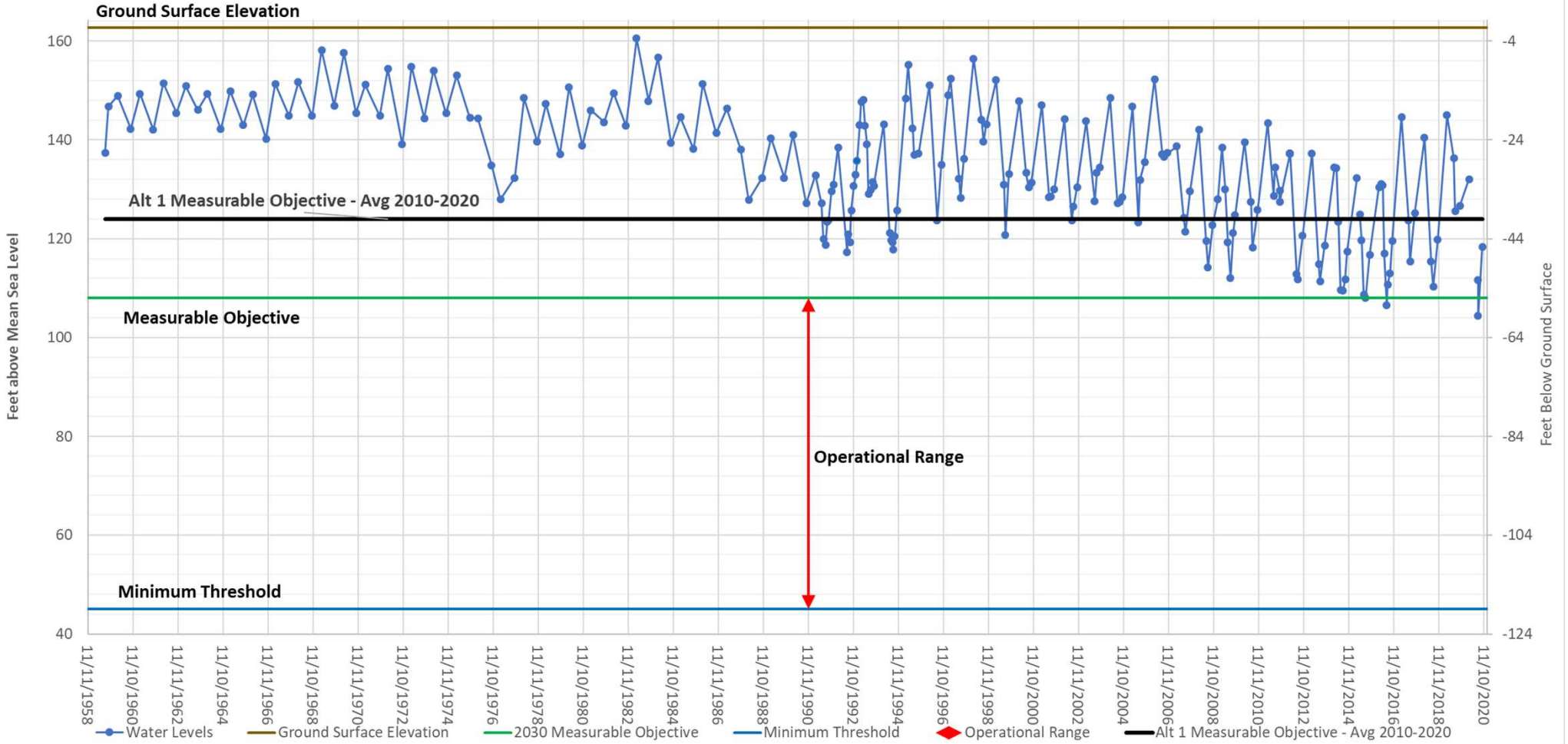
RMS Well 07H001M

Ground Surface Elevation

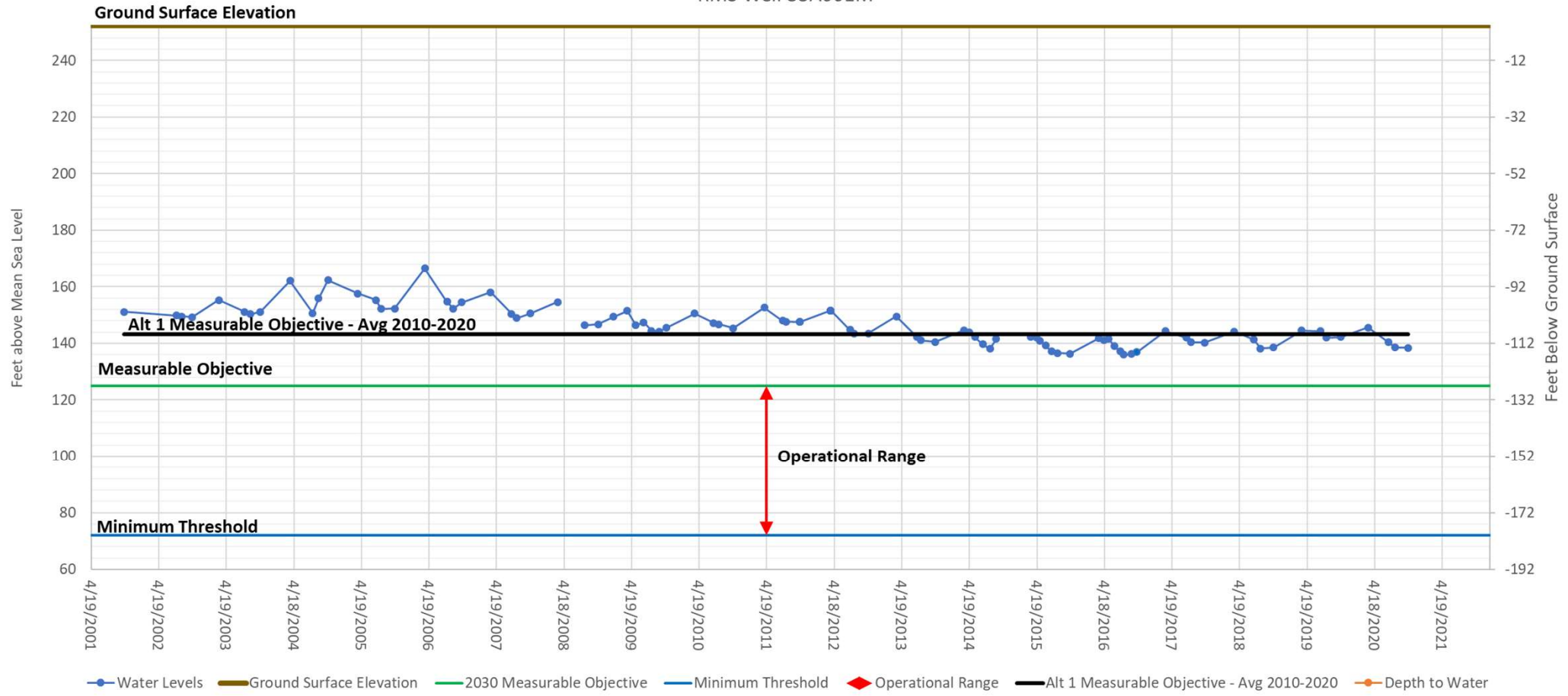




RMS Well 36P001M

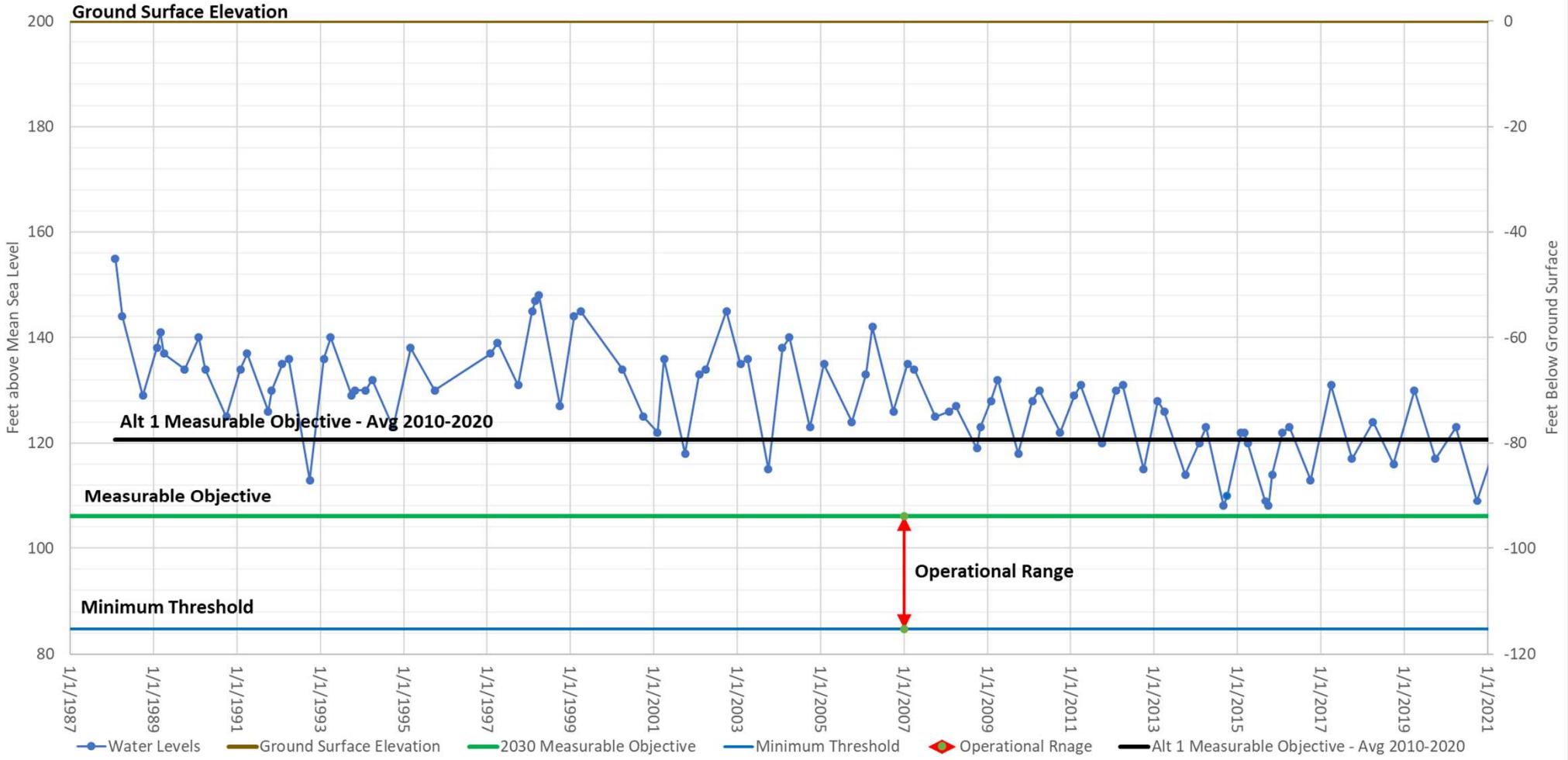


RMS Well 33A001M

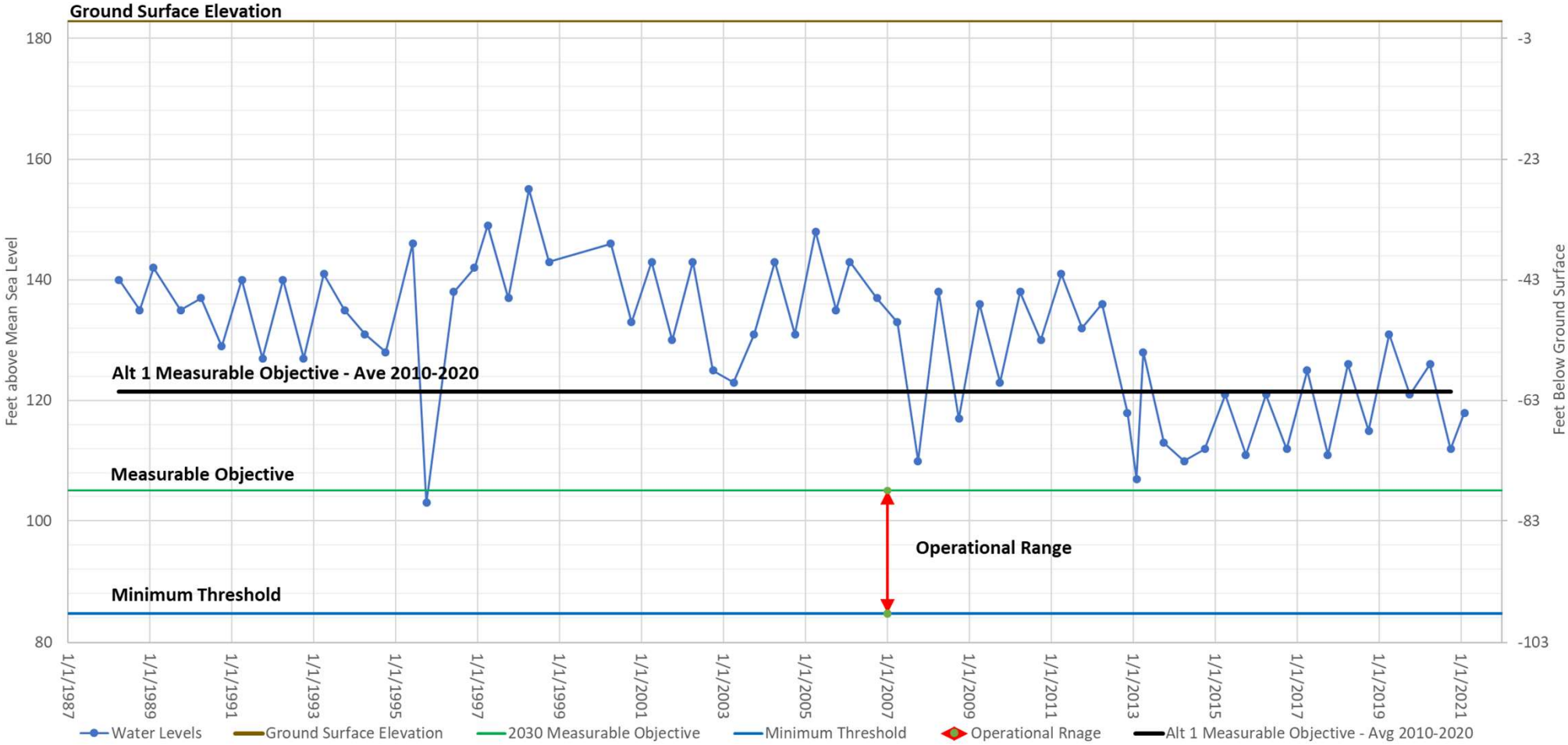


Vina Chico Management Area

RMS Well CWSCH01b

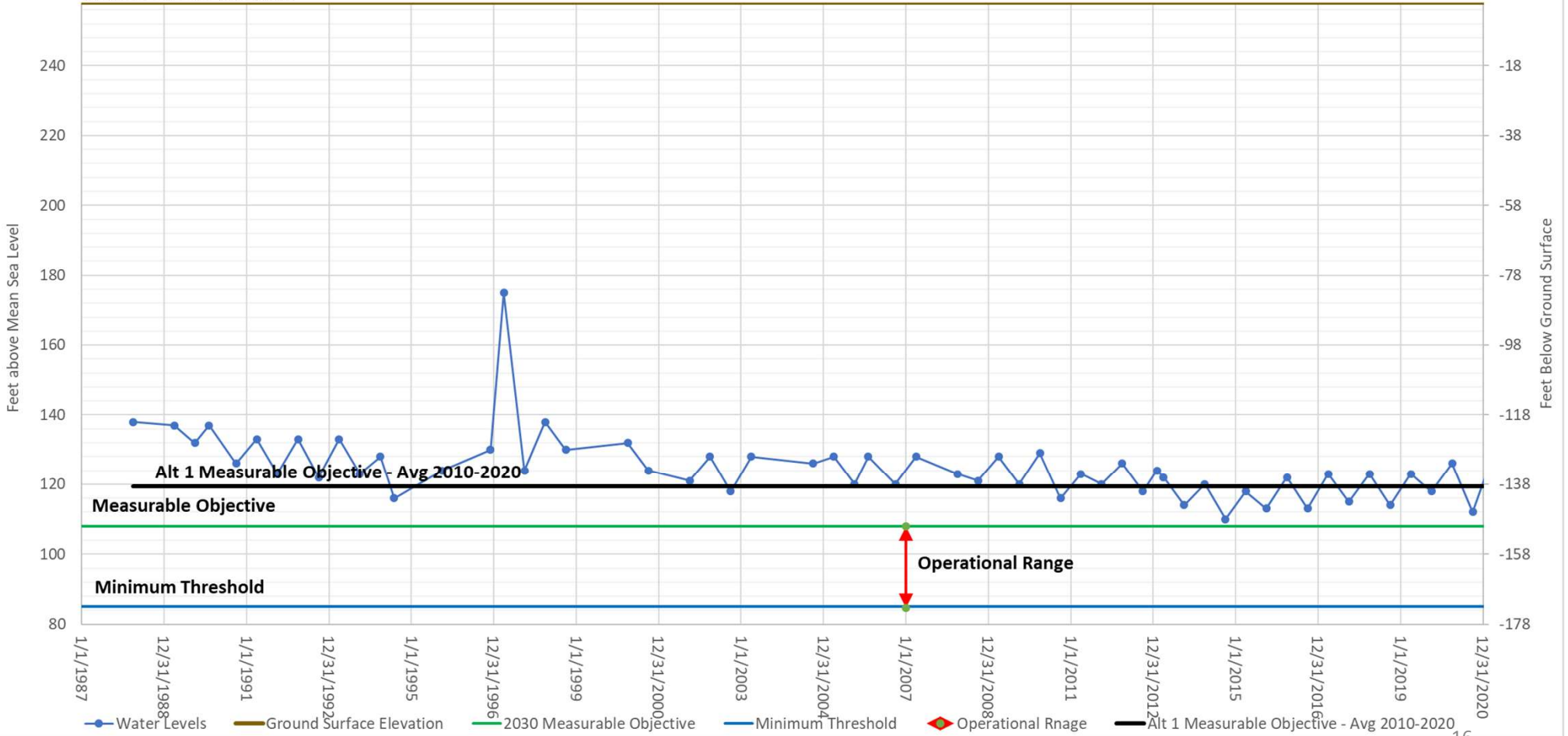


RMS Well CWSCH02

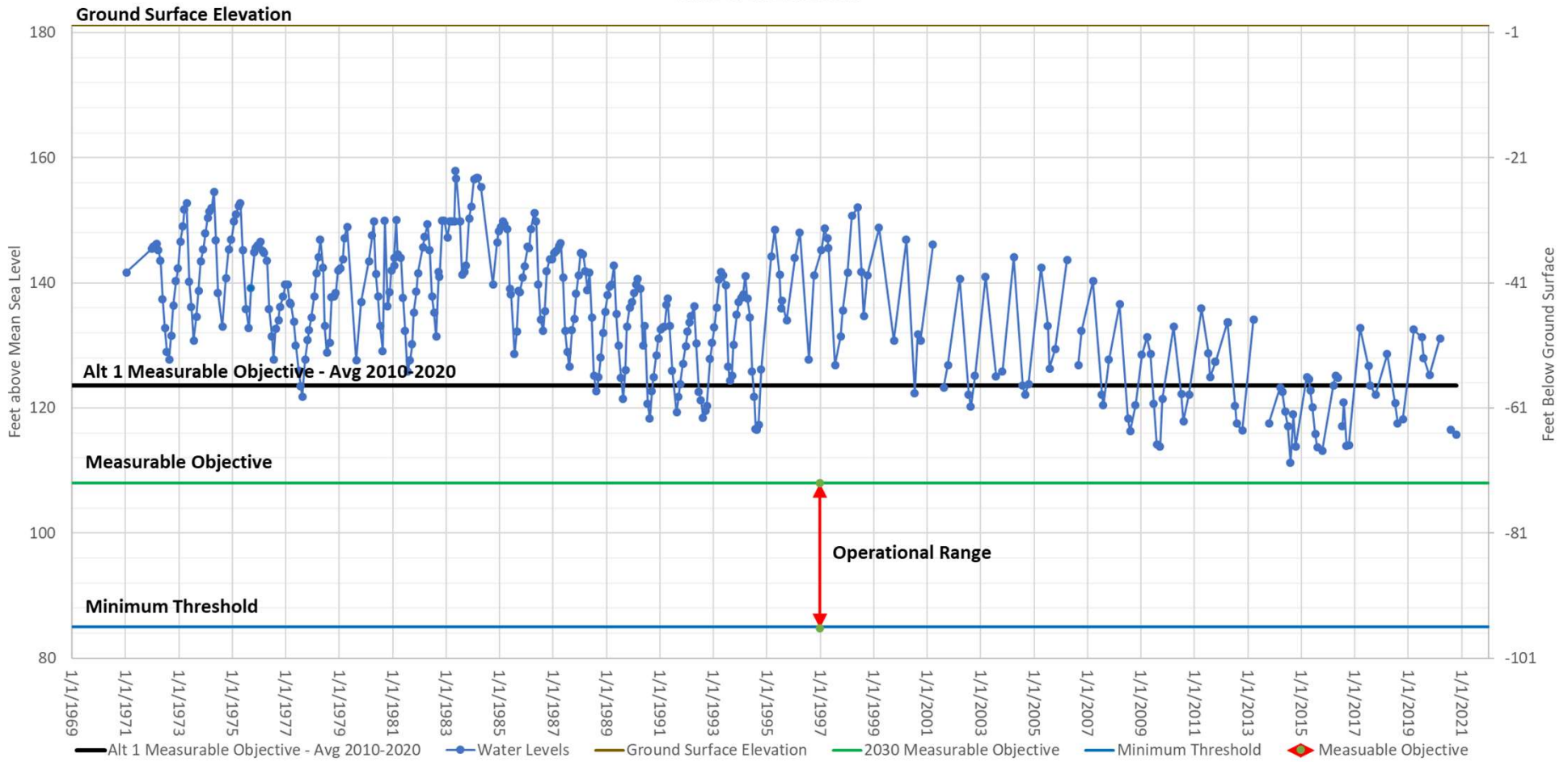


RMS Well CWSCH03

Ground Surface Elevation

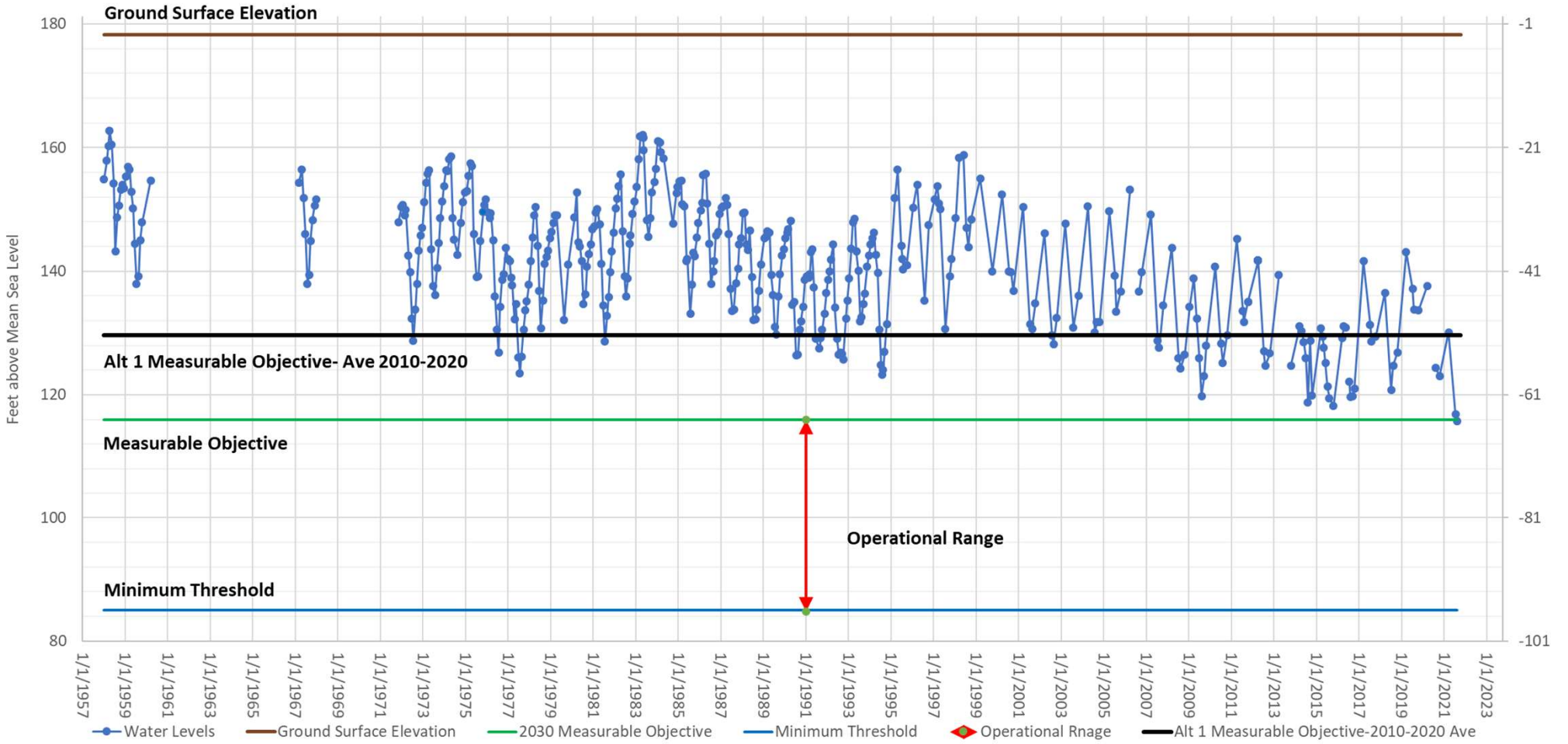


RMS Well 28J005M



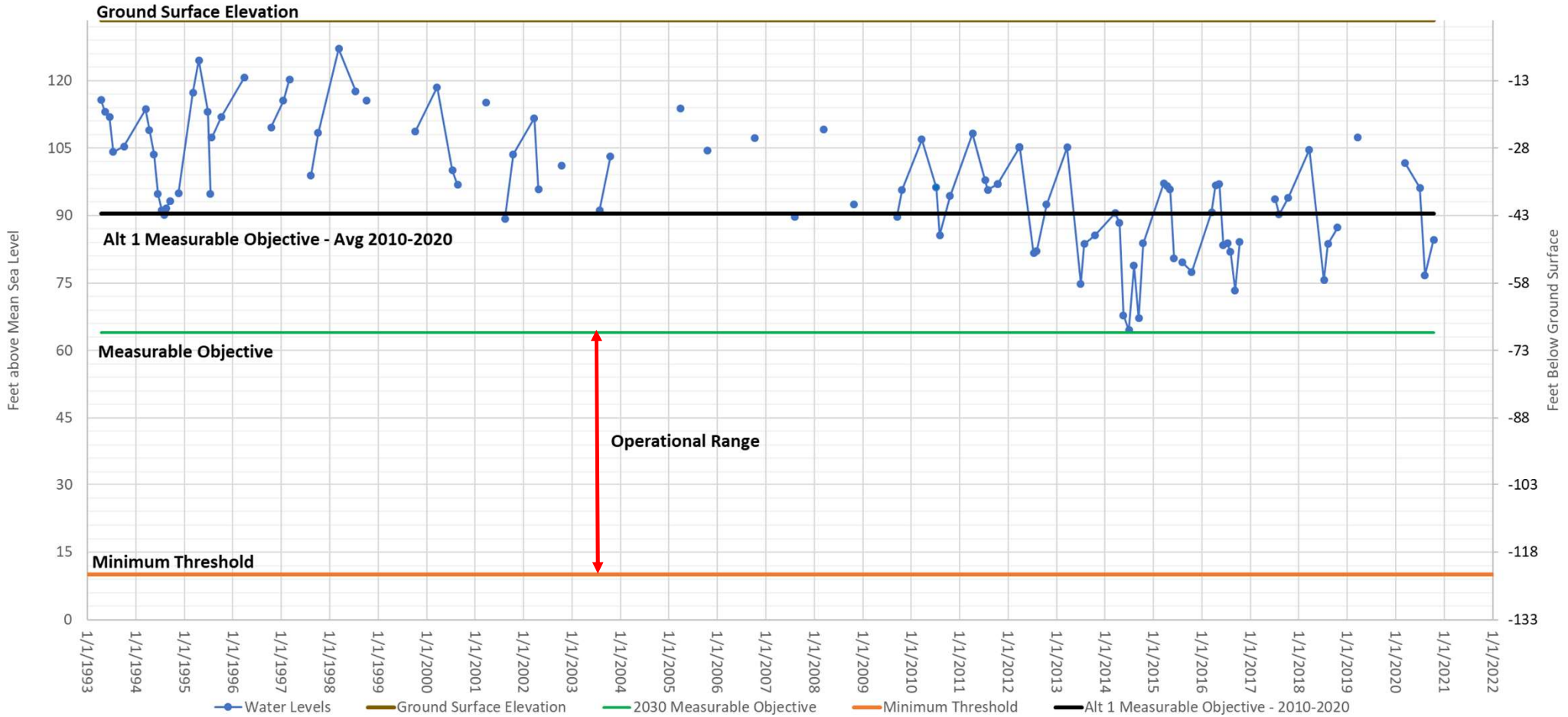
** Replaced by 28J003

RMS Well 28J003M

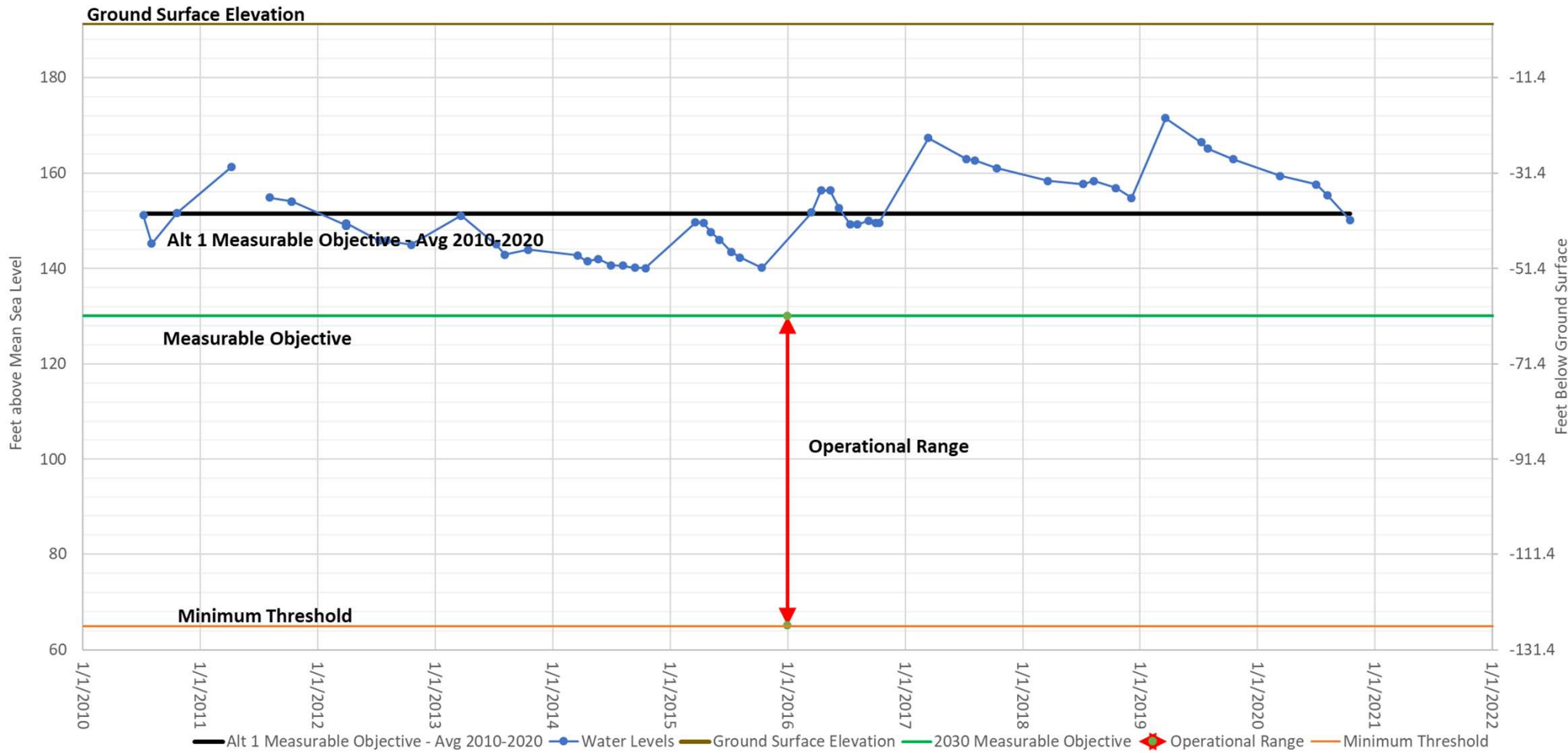


Vina South Management Area

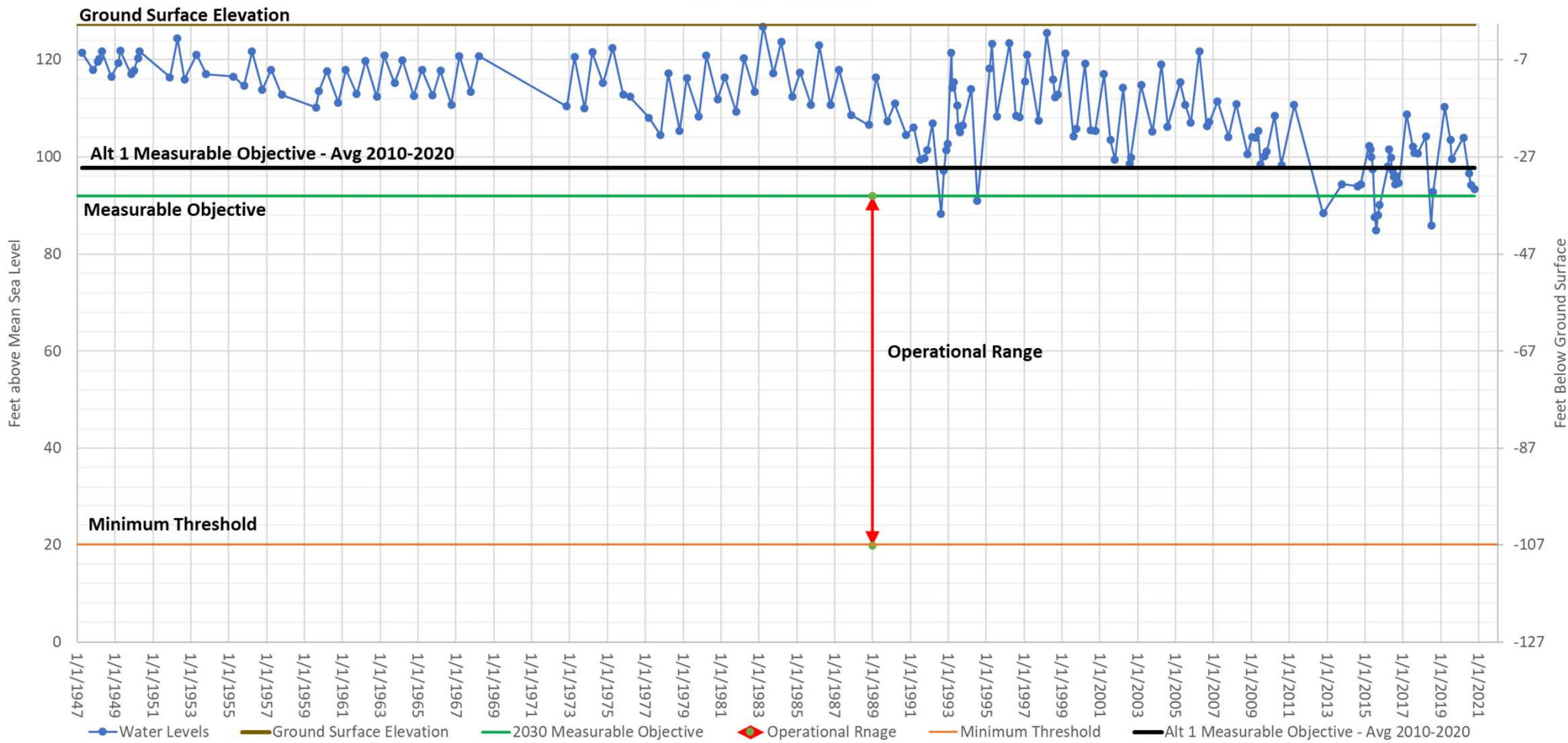
RMS Well 21C001M



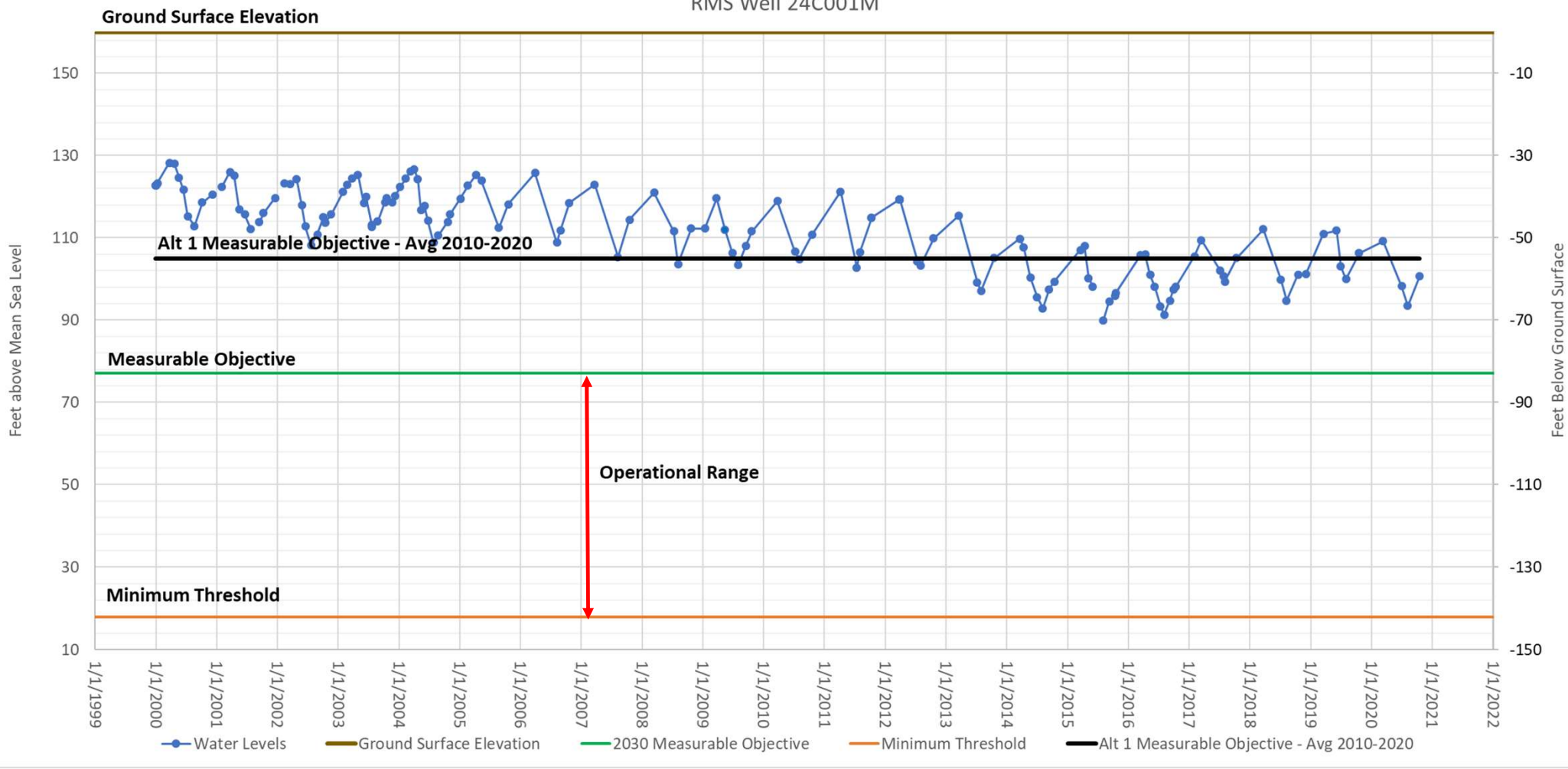
RMS Well 18C003M



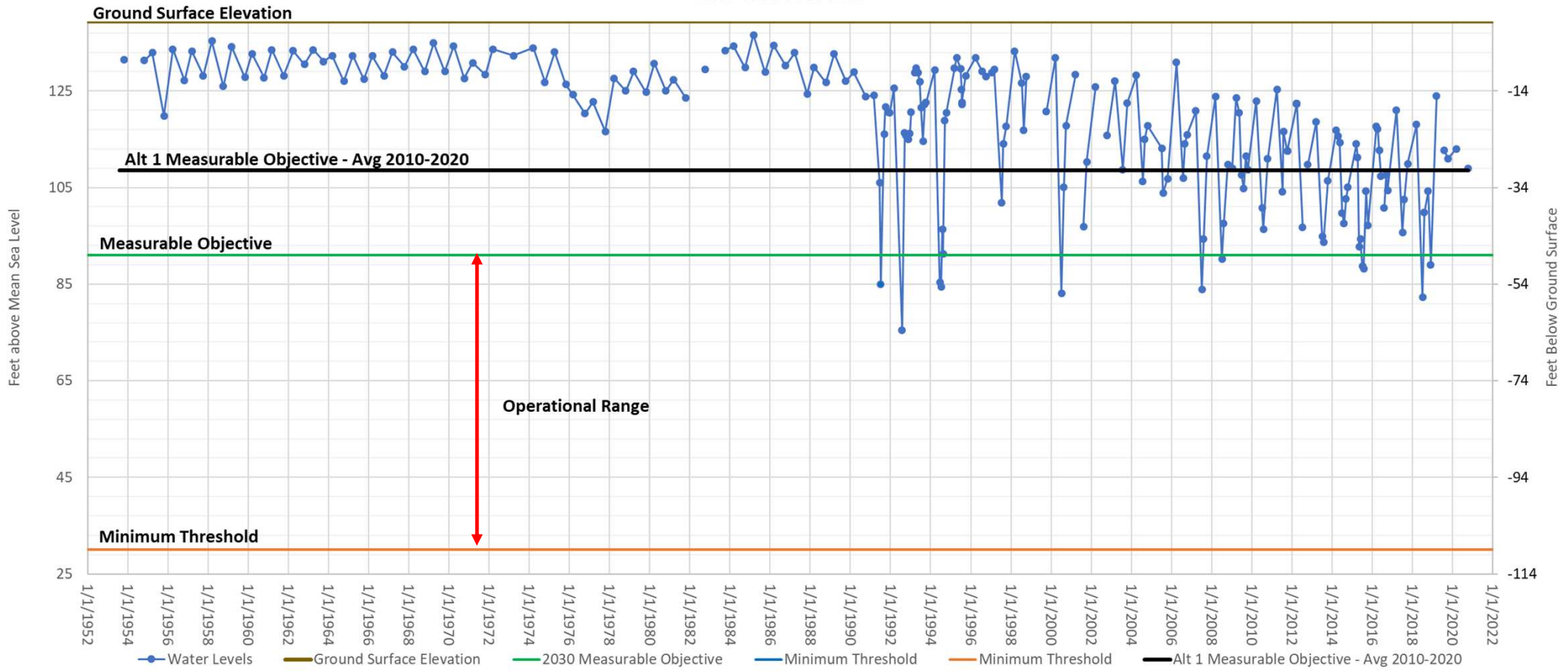
RMS Well 10C002M



RMS Well 24C001M



RMS Well 09L001M



RMS Well 26E005M

Ground Surface Elevation

