



Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Goose Haven Monitor Well Data

Peter Wayland <pwayland@weilandinc.com>

Mon, Nov 13, 2023 at 4:07 PM

To: Patrick Lennberg <patrick.lennberg@state.co.us>

Patrick,

Per your request, I have attached the data you requested. With regard to out of service notation (shown now as nd for no data), Well # P-3 was taken out by heavy equipment at the beginning of 2023. The City has another well it has been monitoring labeled P-3R as shown on the Location Map. Also P-6 was damaged and will be replaced before the end of the year. P-7 had a brief access issue, but has been fixed. Also please note the well numbers submitted by the City previously used a different numbering system than the McLaughlin Water Engineers (2011) and updated AM-1 Plan. This has issue has now been rectified and the correct well number correspond to the original plan. The forthcoming TR-4 will address wellhead structural preservation issues and update the monitoring plan to include the new wells, omission of P-3 and replacement of P-6.

Sincerely,

Peter Wayland

Weiland, Inc.

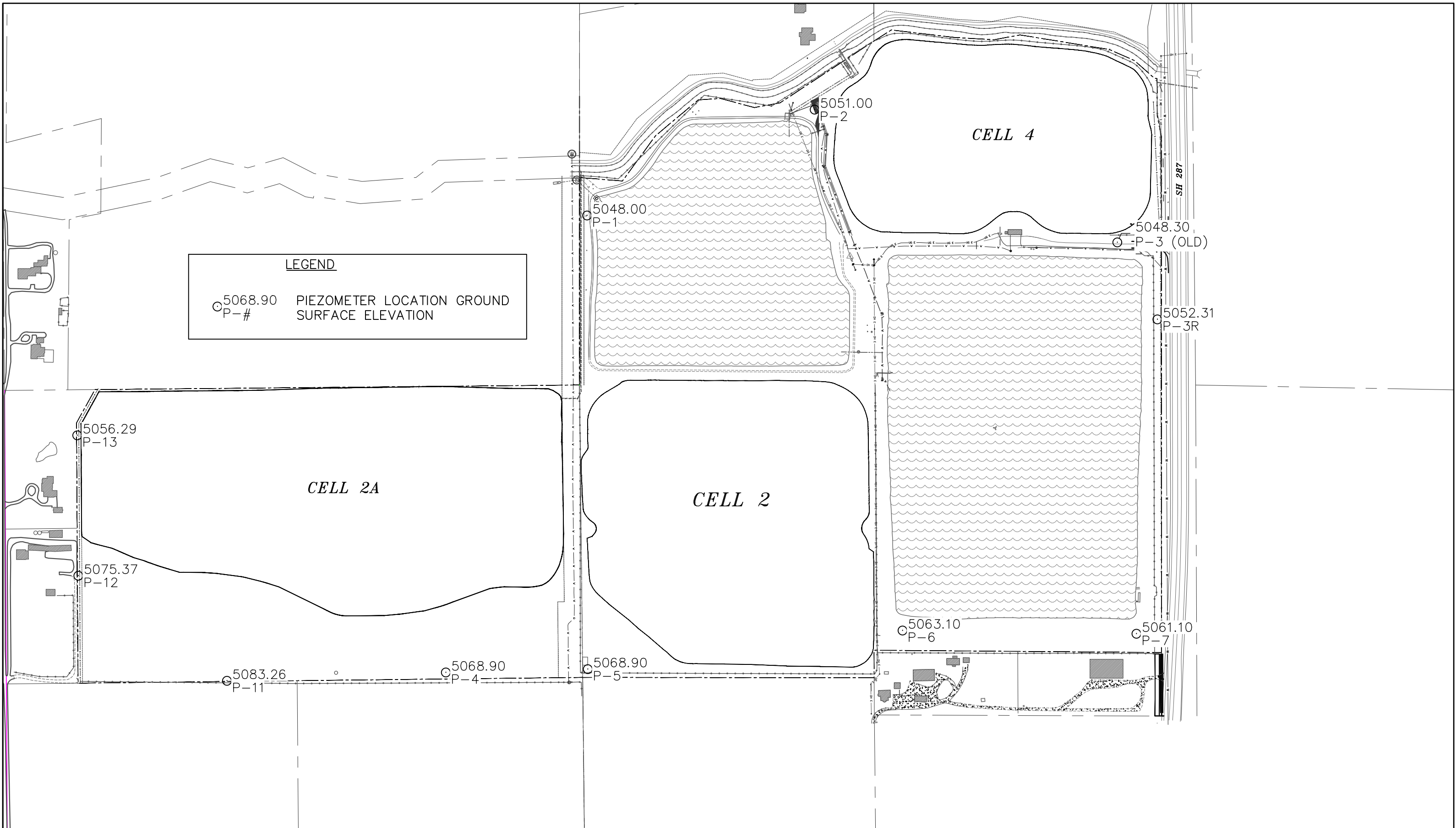
PO Box 18087

Boulder, CO 80308

M 303.518-2182

 Goose Haven Piezometer and Water Level Data.pdf
567K

NUM.	NORTHING (LOCAL PROJECT)	NORTHING (SPCO N NAD83)	NORTHING (GEOGRAPHIC WGS84)	EASTING (LOCAL PROJECT)	EASTING (SPCO N NAD83)	EASTING (GEOGRAPHIC WGS84)	ELEV.	HT. OF RISER
	[ft.]	[ft.]	[Arc Deg.]	[ft.]	[ft.]	[Arc Deg.]	[ft.]	[ft.]
P-1	1260157.80	1259850.81	40° 02' 45.6742" N	3109327.27	3108555.56	105° 06' 44.1844" W	5048.00	4.08
P-2	1260639.01	1260332.02	40° 02' 50.3848" N	3110362.72	3109591.00	105° 06' 30.8427" W	5051.00	2.50
P-3	1260035.44	1259728.46	40° 02' 44.3597" N	3111739.17	3110967.46	105° 06' 13.1777" W	5048.30	1.33
P-3R	1259685.54	1259378.55	40° 02' 40.8937" N	3111921.61	3111149.89	105° 06' 10.8520" W	5052.31	1.25
P-4	1258080.14	1257773.15	40° 02' 25.1694" N	3108685.13	3107913.41	105° 06' 52.5577" W	5068.90	2.25
P-5	1258095.36	1257788.38	40° 02' 25.2921" N	3109330.70	3108558.98	105° 06' 44.2563" W	5068.90	1.92
P-6	1258270.98	1257963.99	40° 02' 26.9653" N	3110762.31	3109990.60	105° 06' 25.8392" W	5063.10	2.75
P-7	1258256.25	1257949.27	40° 02' 26.7730" N	3111826.23	3111054.51	105° 06' 12.1607" W	5061.10	2.67
P-11	1258042.08	1257735.10	40° 02' 24.8359" N	3107689.37	3106917.65	105° 07' 05.3628" W	5083.261	2.60
P-12	1258519.82	1258212.83	40° 02' 29.5858" N	3107013.60	3106241.88	105° 07' 14.0252" W	5075.374	2.28
P-13	1259158.35	1258851.36	40° 02' 35.8962" N	3107008.70	3106236.98	105° 07' 14.0531" W	5056.291	2.47

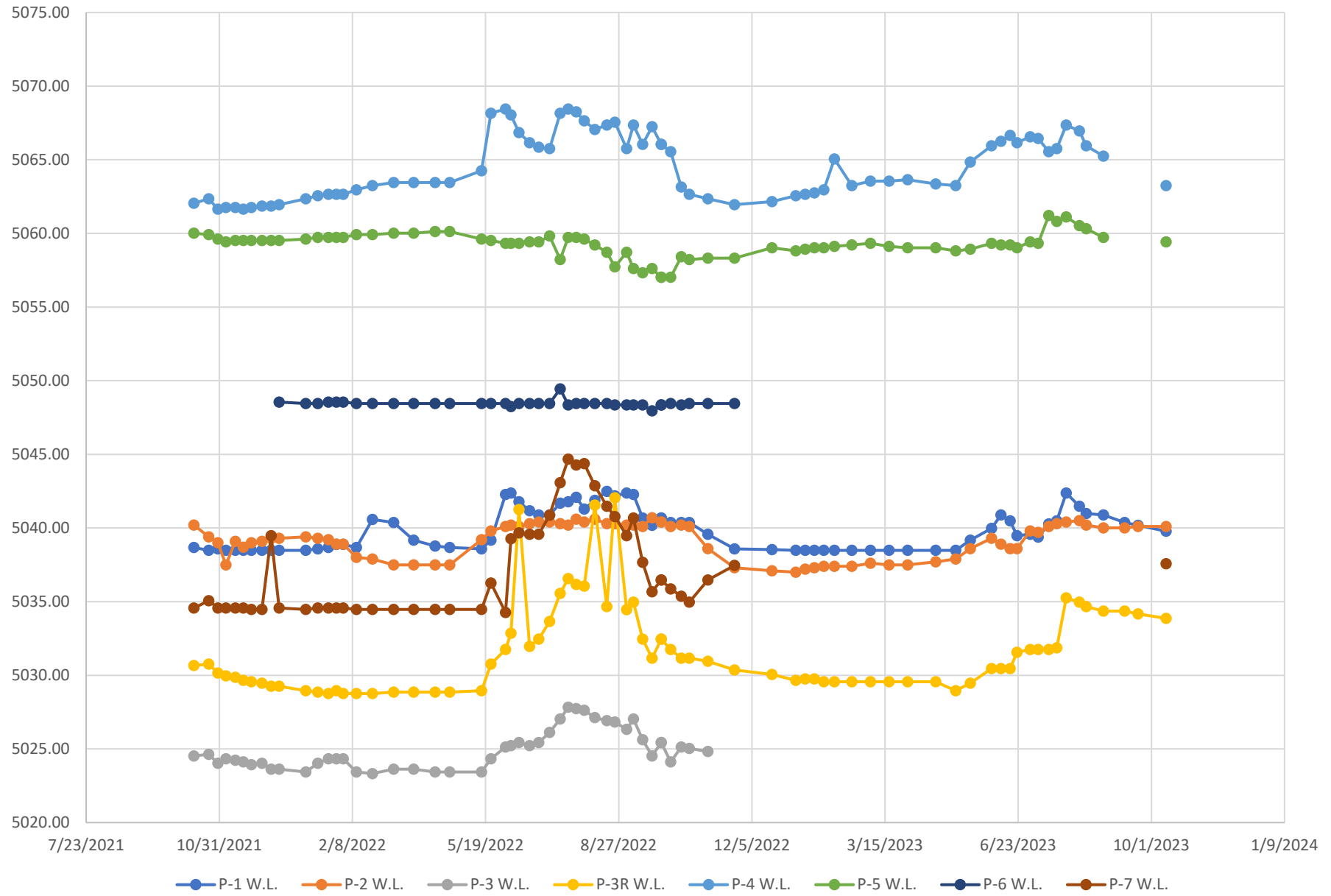


REVISIONS				OWNER CITY OF LAFAYETTE	CONTRACTOR ROCK PRODUCTS OF COLORADO L.L.C. P.O. BOX 893 BROOMFIELD, CO 80038	 W&J Weiland, Inc. Environmental & Engineering PO BOX 18087 BOULDER, CO 80508 ph 303-443-9521			PROJECT GOOSE HAVEN RESERVOIRS COMPLEX EXPANSION #2, #4 – PIEZOMETER LOCATIONS			SHEET	
REV	DESCRIPTION	DATE	APPROVED									HP-1	
												DRAWING NO. 1 OF 1	
												REVISION 0	
												SCALE 1"=400'	
				CAD FILE NAME PIEZOMETER LOCATIONS.DWG	PLOT DATE 11/13/23	APPROVED	DATE	DESIGNED PFW	CHECKED KR	DRAWN PFW	CONTRACT	DATE November 13, 2023	W.I. JOB WI-19011

	P-1 MEAS.	P-1 W.L.	P-2 MEAS.	P-2 W.L.	P-3 MEAS.	P-3 W.L.	P-3R MEAS.	P-3R W.L.	P-4 MEAS.	P-4 W.L.	P-5 MEAS.	P-5 W.L.	P-6 MEAS.	P-6 W.L.	P-7 MEAS.	P-7 W.L.
9/7/2021	12.80	5039.28	12.70	5040.80	24.70	5024.93	22.30	5031.26	7.70	5063.45	10.90	5059.92	nd	nd	27.80	5035.97
9/14/2021	12.30	5039.78	12.30	5041.20	24.80	5024.83	22.60	5030.96	7.90	5063.25	9.10	5061.72	nd	nd	26.40	5037.37
9/22/2021	12.80	5039.28	12.70	5040.80	24.90	5024.73	22.60	5030.96	8.40	5062.75	10.00	5060.82	nd	nd	27.40	5036.37
9/30/2021	13.20	5038.88	13.10	5040.40	25.00	5024.63	22.70	5030.86	8.70	5062.45	10.50	5060.32	nd	nd	28.50	5035.27
10/6/2021	13.30	5038.78	13.30	5040.20	25.00	5024.63	22.80	5030.76	8.90	5062.25	10.50	5060.32	nd	nd	28.70	5035.07
10/12/2021	13.40	5038.68	13.30	5040.20	25.10	5024.53	22.90	5030.66	9.10	5062.05	10.80	5060.02	nd	nd	29.20	5034.57
10/23/2021	13.60	5038.48	14.10	5039.40	25.00	5024.63	22.80	5030.76	8.80	5062.35	10.90	5059.92	nd	nd	28.70	5035.07
10/30/2021	13.50	5038.58	14.50	5039.00	25.60	5024.03	23.40	5030.16	9.50	5061.65	11.20	5059.62	nd	nd	29.20	5034.57
11/5/2021	13.60	5038.48	16.00	5037.50	25.30	5024.33	23.60	5029.96	9.40	5061.75	11.40	5059.42	nd	nd	29.20	5034.57
11/12/2021	13.60	5038.48	14.40	5039.10	25.40	5024.23	23.70	5029.86	9.40	5061.75	11.30	5059.52	nd	nd	29.20	5034.57
11/18/2021	13.60	5038.48	14.80	5038.70	25.50	5024.13	23.90	5029.66	9.50	5061.65	11.30	5059.52	nd	nd	29.20	5034.57
11/24/2021	13.60	5038.48	14.50	5039.00	25.70	5023.93	24.00	5029.56	9.40	5061.75	11.30	5059.52	nd	nd	29.30	5034.47
12/2/2021	13.60	5038.48	14.40	5039.10	25.60	5024.03	24.10	5029.46	9.30	5061.85	11.30	5059.52	nd	nd	29.30	5034.47
12/9/2021	13.60	5038.48	14.20	5039.30	26.00	5023.63	24.30	5029.26	9.30	5061.85	11.30	5059.52	nd	nd	24.30	5039.47
12/15/2021	13.60	5038.48	14.20	5039.30	26.00	5023.63	24.30	5029.26	9.20	5061.95	11.30	5059.52	17.30	5048.55	29.20	5034.57
1/4/2022	13.60	5038.48	14.10	5039.40	26.20	5023.43	24.60	5028.96	8.80	5062.35	11.20	5059.62	17.40	5048.45	29.30	5034.47
1/13/2022	13.50	5038.58	14.20	5039.30	25.60	5024.03	24.70	5028.86	8.60	5062.55	11.10	5059.72	17.40	5048.45	29.20	5034.57
1/21/2022	13.40	5038.68	14.30	5039.20	25.30	5024.33	24.80	5028.76	8.50	5062.65	11.10	5059.72	17.30	5048.55	29.20	5034.57
1/27/2022	13.20	5038.88	14.60	5038.90	25.30	5024.33	24.60	5028.96	8.50	5062.65	11.10	5059.72	17.30	5048.55	29.20	5034.57
2/1/2022	13.20	5038.88	14.60	5038.90	25.30	5024.33	24.80	5028.76	8.50	5062.65	11.10	5059.72	17.30	5048.55	29.20	5034.57
2/11/2022	13.40	5038.68	15.50	5038.00	26.20	5023.43	24.80	5028.76	8.20	5062.95	10.90	5059.92	17.40	5048.45	29.30	5034.47
2/23/2022	11.50	5040.58	15.60	5037.90	26.30	5023.33	24.80	5028.76	7.90	5063.25	10.90	5059.92	17.40	5048.45	29.30	5034.47
3/11/2022	11.70	5040.38	16.00	5037.50	26.00	5023.63	24.70	5028.86	7.70	5063.45	10.80	5060.02	17.40	5048.45	29.30	5034.47
3/26/2022	12.90	5039.18	16.00	5037.50	26.00	5023.63	24.70	5028.86	7.70	5063.45	10.80	5060.02	17.40	5048.45	29.30	5034.47
4/11/2022	13.30	5038.78	16.00	5037.50	26.20	5023.43	24.70	5028.86	7.70	5063.45	10.70	5060.12	17.40	5048.45	29.30	5034.47
4/22/2022	13.40	5038.68	16.00	5037.50	26.20	5023.43	24.70	5028.86	7.70	5063.45	10.70	5060.12	17.40	5048.45	29.30	5034.47
5/16/2022	13.50	5038.58	14.30	5039.20	26.20	5023.43	24.60	5028.96	6.90	5064.25	11.20	5059.62	17.40	5048.45	29.30	5034.47
5/23/2022	12.90	5039.18	13.70	5039.80	25.30	5024.33	22.80	5030.76	3.00	5068.15	11.30	5059.52	17.40	5048.45	27.50	5036.27
6/3/2022	9.80	5042.28	13.40	5040.10	24.50	5025.13	21.80	5031.76	2.70	5068.45	11.50	5059.32	17.40	5048.45	29.50	5034.27
6/7/2022	9.70	5042.38	13.30	5040.20	24.40	5025.23	20.70	5032.86	3.10	5068.05	11.50	5059.32	17.60	5048.25	24.50	5039.27
6/13/2022	10.30	5041.78	13.40	5040.10	24.20	5025.43	12.30	5041.26	4.30	5066.85	11.50	5059.32	17.40	5048.45	24.10	5039.67
6/21/2022	10.90	5041.18	13.20	5040.30	24.40	5025.23	21.60	5031.96	5.00	5066.15	11.40	5059.42	17.40	5048.45	24.20	5039.57
6/28/2022	11.20	5040.88	13.10	5040.40	24.20	5025.43	21.10	5032.46	5.30	5065.85	11.40	5059.42	17.40	5048.45	24.20	5039.57
7/6/2022	11.20	5040.88	13.10	5040.40	23.50	5026.13	19.90	5033.66	5.40	5065.75	11.00	5059.82	17.40	5048.45	22.90	5040.87
7/14/2022	10.40	5041.68	13.20	5040.30	22.60	5027.03	18.00	5035.56	3.00	5068.15	12.60	5058.22	16.40	5049.45	20.70	5043.07
7/20/2022	10.30	5041.78	13.30	5040.20	21.80	5027.83	17.00	5036.56	2.70	5068.45	11.10	5059.72	17.50	5048.35	19.10	5044.67
7/26/2022	10.00	5042.08	12.90	5040.60	21.90	5027.73	17.40	5036.16	2.90	5068.25	11.10	5059.72	17.40	5048.45	19.50	5044.27
8/1/2022	10.80	5041.28	13.10	5040.40	22.00	5027.63	17.50	5036.06	3.50	5067.65	11.20	5059.62	17.40	5048.45	19.40	5044.37
8/9/2022	10.20	5041.88	12.90	5040.60	22.50	5027.13	12.00	5041.56	4.10	5067.05	11.60	5059.22	17.40	5048.45	20.90	5042.87
8/18/2022	9.60	5042.48	13.20	5040.30	22.70	5026.93	18.90	5034.66	3.80	5067.35	12.10	5058.72	17.40	5048.45	22.30	5041.47
8/24/2022	9.90	5042.18	13.20	5040.30	22.80	5026.83	11.50	5042.06	3.60	5067.55	13.10	5057.72	17.50	5048.35	23.00	5040.77
9/2/2022	9.70	5042.38	13.30	5040.20	23.30	5026.33	19.10	5034.46	5.40	5065.75	12.10	5058.72	17.50	5048.35	24.30	5039.47
9/7/2022	9.80	5042.28	13.30	5040.20	22.60	5027.03	18.60	5034.96	3.80	5067.35	13.20	5057.62	17.50	5048.35	23.10	5040.67
9/14/2022	11.40	5040.68	13.40	5040.10	24.00	5025.63	21.10	5032.46	5.10	5066.05	13.50	5057.32	17.50	5048.35	26.10	5037.67
9/21/2022	11.90	5040.18	12.80	5040.70	25.10	5024.53	22.40	5031.16	3.90	5067.25	13.20	5057.62	17.90	5047.95	28.10	5035.67

	P-1 MEAS.	P-1 W.L.	P-2 MEAS.	P-2 W.L.	P-3 MEAS.	P-3 W.L.	P-3R MEAS.	P-3R W.L.	P-4 MEAS.	P-4 W.L.	P-5 MEAS.	P-5 W.L.	P-6 MEAS.	P-6 W.L.	P-7 MEAS.	P-7 W.L.
9/28/2022	11.40	5040.68	13.10	5040.40	24.20	5025.43	21.10	5032.46	5.10	5066.05	13.80	5057.02	17.50	5048.35	27.30	5036.47
9/28/2022	11.40	5040.68	13.10	5040.40	24.20	5025.43	21.10	5032.46	5.10	5066.05	13.80	5057.02	17.50	5048.35	27.30	5036.47
10/5/2022	11.70	5040.38	13.40	5040.10	25.50	5024.13	21.80	5031.76	5.60	5065.55	13.80	5057.02	17.40	5048.45	27.90	5035.87
10/13/2022	11.70	5040.38	13.30	5040.20	24.50	5025.13	22.40	5031.16	8.00	5063.15	12.40	5058.42	17.50	5048.35	28.40	5035.37
10/19/2022	11.70	5040.38	13.40	5040.10	24.60	5025.03	22.40	5031.16	8.50	5062.65	12.60	5058.22	17.40	5048.45	28.80	5034.97
11/2/2022	12.50	5039.58	14.90	5038.60	24.80	5024.83	22.60	5030.96	8.80	5062.35	12.50	5058.32	17.40	5048.45	27.30	5036.47
11/22/2022	13.50	5038.58	16.20	5037.30	nd	nd	23.20	5030.36	9.20	5061.95	12.50	5058.32	17.40	5048.45	26.30	5037.47
12/20/2022	13.55	5038.53	16.40	5037.10	nd	nd	23.50	5030.06	9.00	5062.15	11.80	5059.02	nd	nd	nd	nd
1/7/2023	13.60	5038.48	16.50	5037.00	nd	nd	23.90	5029.66	8.60	5062.55	12.00	5058.82	nd	nd	nd	nd
1/14/2023	13.60	5038.48	16.30	5037.20	nd	nd	23.80	5029.76	8.50	5062.65	11.90	5058.92	nd	nd	nd	nd
1/21/2023	13.60	5038.48	16.20	5037.30	nd	nd	23.80	5029.76	8.40	5062.75	11.80	5059.02	nd	nd	nd	nd
1/28/2023	13.60	5038.48	16.10	5037.40	nd	nd	24.00	5029.56	8.20	5062.95	11.80	5059.02	nd	nd	nd	nd
2/5/2023	13.60	5038.48	16.10	5037.40	nd	nd	24.00	5029.56	6.10	5065.05	11.70	5059.12	nd	nd	nd	nd
2/18/2023	13.60	5038.48	16.10	5037.40	nd	nd	24.00	5029.56	7.90	5063.25	11.60	5059.22	nd	nd	nd	nd
3/4/2023	13.60	5038.48	15.90	5037.60	nd	nd	24.00	5029.56	7.60	5063.55	11.50	5059.32	nd	nd	nd	nd
3/18/2023	13.60	5038.48	16.00	5037.50	nd	nd	24.00	5029.56	7.60	5063.55	11.70	5059.12	nd	nd	nd	nd
4/1/2023	13.60	5038.48	16.00	5037.50	nd	nd	24.00	5029.56	7.50	5063.65	11.80	5059.02	nd	nd	nd	nd
4/22/2023	13.60	5038.48	15.80	5037.70	nd	nd	24.00	5029.56	7.80	5063.35	11.80	5059.02	nd	nd	nd	nd
5/7/2023	13.60	5038.48	15.60	5037.90	nd	nd	24.60	5028.96	7.90	5063.25	12.00	5058.82	nd	nd	nd	nd
5/18/2023	12.90	5039.18	14.90	5038.60	nd	nd	24.10	5029.46	6.30	5064.85	11.90	5058.92	nd	nd	nd	nd
6/3/2023	12.10	5039.98	14.20	5039.30	nd	nd	23.10	5030.46	5.20	5065.95	11.50	5059.32	nd	nd	nd	nd
6/10/2023	11.20	5040.88	14.60	5038.90	nd	nd	23.10	5030.46	4.90	5066.25	11.60	5059.22	nd	nd	nd	nd
6/17/2023	11.60	5040.48	14.90	5038.60	nd	nd	23.10	5030.46	4.50	5066.65	11.60	5059.22	nd	nd	nd	nd
6/22/2023	12.60	5039.48	14.90	5038.60	nd	nd	22.00	5031.56	5.00	5066.15	11.80	5059.02	nd	nd	nd	nd
7/2/2023	12.50	5039.58	13.70	5039.80	nd	nd	21.80	5031.76	4.60	5066.55	11.40	5059.42	nd	nd	nd	nd
7/8/2023	12.70	5039.38	13.80	5039.70	nd	nd	21.80	5031.76	4.70	5066.45	11.50	5059.32	nd	nd	nd	nd
7/16/2023	11.80	5040.28	13.40	5040.10	nd	nd	21.80	5031.76	5.60	5065.55	9.60	5061.22	nd	nd	nd	nd
7/22/2023	11.60	5040.48	13.20	5040.30	nd	nd	21.70	5031.86	5.40	5065.75	10.00	5060.82	nd	nd	nd	nd
7/29/2023	9.70	5042.38	13.10	5040.40	nd	nd	18.30	5035.26	3.80	5067.35	9.70	5061.12	nd	nd	nd	nd
8/8/2023	10.60	5041.48	13.00	5040.50	nd	nd	18.60	5034.96	4.20	5066.95	10.30	5060.52	nd	nd	nd	nd
8/13/2023	11.10	5040.98	13.30	5040.20	nd	nd	18.90	5034.66	5.20	5065.95	10.50	5060.32	nd	nd	nd	nd
8/26/2023	11.20	5040.88	13.50	5040.00	nd	nd	19.20	5034.36	5.90	5065.25	11.10	5059.72	nd	nd	nd	nd
9/11/2023	11.70	5040.38	13.50	5040.00	nd	nd	19.20	5034.36	nd	nd	nd	nd	nd	nd	nd	nd
9/21/2023	11.90	5040.18	13.40	5040.10	nd	nd	19.40	5034.16	nd	nd	nd	nd	nd	nd	nd	nd
10/12/2023	12.30	5039.78	13.40	5040.10	nd	nd	19.70	5033.86	7.90	5063.25	11.40	5059.42	nd	nd	26.20	5037.57

GOOSE HAVEN GROUNDWATER LEVELS 10-12-2021 THRU 10-12-2023



GOOSE HAVEN PIEZOMETER WATER LEVEL DATA P-11, P-12, P-13 2023

	P-11 MEAS.	P-11 W.L.	P- 12 MEAS.	P-12 W.L.	P-13 MEAS.	P-13 W.L.
6/10/2023	13.60	5072.26	13.30	5064.35	13.50	5045.26
9/11/2023	14.40	5071.46	11.38	5066.27	15.56	5043.20