



E-470 Public Highway Authority
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Adams County
Arapahoe County
Aurora, CO
Brighton, CO
Commerce City, CO
Douglas County
Parker, CO
Thornton, CO

June 27, 2025

Department of Natural Resources
Attn: Nikie Gagnon
Colorado Division of Reclamation, Mining & Safety
1313 Sherman Street Room 215
Denver, CO 80203-2243

Re: Sandy Acres Pit, DRMS Permit No. M-1980-110
2025 2nd quarter Groundwater Monitoring report

Dear Ms. Gagnon:

This is the quarterly report for our ground water monitoring plan.

During this quarter we cleaned the inlet of the existing sump twice. The level of the water coming into the sump has decreased by approximately 1.6 feet (see photos below) from March 19th to June 25th. Please note that the gauge is for reference only and does not indicate the actual depth of water.

The water north of the cross berm continues to drop and has dropped approximately 3 feet since the cross berm was completed. The water in the short section of the perimeter channel north of the cross berm (shown in red on the graphic) is approximately at the same elevation as the water south of the cross berm. This section of the perimeter berm has performed as intended by keeping the water in the perimeter channel.

The water level south of the cross berm has increased approximately 1.4 feet since the cross berm was completed. This has not performed as we had hoped. We had hoped that the water elevation inside the berm south of the cross berm would go down and that the water would be contained in the perimeter channel.

As weather and water elevations allow we will connect different sections of the perimeter channel to the perimeter drain (see the graphic below). During this process we may modify the berms as needed to contain water in the perimeter channel.

The well readings, shown below, indicate that the ground water levels upstream of the sump are increasing from the 1st quarter readings. This is to be expected based on the historic seasonality of ground water levels in this area. However, the ground water levels are still generally higher than were measured in years prior to 2023 for this time of year and the most upstream well (well #3) has the highest water level that we have recorded. Please see the attached table and graph showing the data.

We are working with South Adams County Water & Sanitation District to determine if we can reach an agreement for them to replace our past depletions. In late June we received a draft agreement that we are currently reviewing.

If you have any questions or need more information please let me know.

Sincerely

A handwritten signature in black ink that reads "Derek Slack".

Derek Slack, P.E.
Director of Roadway Maintenance

March 19, 2025



June 25, 2025



March 19, 2025



June 25, 2025





Sandy Acres well monitoring

2nd Quarter 2025

	Well #1		Well #2		Well #3		Well #4		Well #5		Well #6		NW-1		NW-2	
Elevation at top of tube	5024.901		5033.775		5038.318		5033.32		5029.13		5014.509		5025.162		5022.655	
Date	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation
3/11/2020	16	5005.445			19	5016.32	16	5014.357	15	5011.402	5.5	5005.026				
4/8/2020	13.1	5011.80	20.6	5013.18	21.4	5016.92	19.2	5014.12	17.4	5011.73	10.4	5004.11				
4/20/2020	12.7	5012.20	20.4	5013.38	20.9	5017.42	18.9	5014.42	17.1	5012.03	10.2	5004.31				
4/29/2020	12.3	5012.60	19.9	5013.88	20.6	5017.72	18.7	5014.62	17	5012.13	9.9	5004.61				
5/7/2020	11.8	5013.10	19.5	5014.28	20.4	5017.92	18.4	5014.92	16.7	5012.43	9.7	5004.81				
5/13/2020	11.6	5013.30	19.4	5014.38	20.2	5018.12	18.3	5015.02	16.6	5012.53	9.4	5005.11				
5/20/2020	11.3	5013.60	19.1	5014.68	20.1	5018.22	18.1	5015.22	16.4	5012.73	9.4	5005.11				
5/28/2020	11.3	5013.60	19	5014.78	20.1	5018.22	18.1	5015.22	16.3	5012.83	9.1	5005.41				
6/4/2020	11	5013.90	18.7	5015.08	20	5018.32	17.9	5015.42	16.2	5012.93	9	5005.51				
6/11/2020	10.9	5014.00	18.6	5015.18	20	5018.32	17.9	5015.42	16.1	5013.03	8.9	5005.61				
6/18/2020	10.7	5014.20	18.5	5015.28	19.9	5018.42	17.8	5015.52	16	5013.13	8.8	5005.71				
6/25/2020	10.4	5014.50	18.4	5015.38	20	5018.32	17.8	5015.52	16.2	5012.93	8.6	5005.91				
7/6/2020	10.2	5014.70	18	5015.78	19.6	5018.72	17.5	5015.82	15.7	5013.43	8.5	5006.01				
7/15/2020	10.2	5014.70	18.1	5015.68	20	5018.32	17.6	5015.72	15.8	5013.33	8.3	5006.21				
7/22/2020	10.2	5014.70	18.1	5015.68	20	5018.32	17.6	5015.72	15.7	5013.43	8.1	5006.41				
7/30/2020	10.5	5014.40	18.3	5015.48	20.1	5018.22	18	5015.32	15.9	5013.23	8.2	5006.31			13.30	5009.36
8/5/2020	10.7	5014.20	18.4	5015.38	20.1	5018.22	17.7	5015.62	15.9	5013.23	8.4	5006.11	18.20	5006.96	13.20	5009.46
8/12/2020	10.6	5014.30	18.5	5015.28	20.1	5018.22	17.8	5015.52	16	5013.13	8.5	5006.01	18.30	5006.86	13.30	5009.36
8/20/2020	10.7	5014.20	18.6	5015.18	20.1	5018.22	18	5015.32	16.1	5013.03	8.6	5005.91	18.40	5006.76	13.30	5009.36
8/27/2020	10.8	5014.10	18.6	5015.18	20.2	5018.12	18.1	5015.22	16.1	5013.03	8.6	5005.91	18.50	5006.66	13.40	5009.26
9/2/2020	10.9	5014.00	18.8	5014.98	20.4	5017.92	18.2	5015.12	16.1	5013.03	8.6	5005.91	18.70	5006.46	13.50	5009.16
9/11/2020	11.1	5013.80	18.9	5014.88	20.5	5017.82	18.2	5015.12	16.2	5012.93	8.7	5005.81	18.80	5006.36	13.60	5009.06
9/18/2020	11.1	5013.80	19.1	5014.68	20.5	5017.82	18.2	5015.12	16.3	5012.83	8.8	5005.71	18.80	5006.36	13.80	5008.86
9/24/2020	11.1	5013.80	18.9	5014.88	20.3	5018.02	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.80	5006.36	13.60	5009.06
10/1/2020	11.2	5013.70	19	5014.78	20.5	5017.82	18.2	5015.12	16.4	5012.73	8.8	5005.71	18.80	5006.36	13.70	5008.96
10/9/2020	11.1	5013.80	19	5014.78	20.4	5017.92	18.1	5015.22	16.3	5012.83	8.8	5005.71	18.70	5006.46	13.80	5008.86
10/30/2020	11.3	5013.60	19.1	5014.68	20.4	5017.92	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.60	5006.56	13.60	5009.06
11/6/2020	11.4	5013.50	19.2	5014.58	20.5	5017.82	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.80	5006.36	13.80	5008.86
11/13/2020	11.6	5013.30	19.5	5014.28	20.8	5017.52	18.4	5014.92	16.5	5012.63	8.9	5005.61	19.00	5006.16	14.00	5008.66
11/19/2020	11.9	5013.00	19.8	5013.98	21	5017.32	18.7	5014.62	16.7	5012.43	9.2	5005.31	19.20	5005.96	14.20	5008.46
12/24/2020	12.7	5012.20	20.5	5013.28	21.7	5016.62	19.2	5014.12	17.3	5011.83	10.1	5004.41	19.80	5005.36	15.10	5007.56
1/8/2021	12.9	5012.00	20.7	5013.08	21.9	5016.42	19.4	5013.92	17.6	5011.53	10.2	5004.31	20.10	5005.06	15.30	5007.36
1/21/2021	13.1	5011.80	20.9	5012.88	22	5016.32	19.6	5013.72	17.7	5011.43	10.3	5004.21	20.30	5004.86	15.20	5007.46
2/2/2021	13.3	5011.60	21.1	5012.68	22.1	5016.22	19.8	5013.52	17.8	5011.33	10.2	5004.31	20.40	5004.76	15.40	5007.26
3/4/2021	13.7	5011.20	21.1	5012.68	22.6	5015.72	19.5	5013.82	18.2	5010.93	10.7	5003.81	21.20	5003.96	16.20	5006.46
4/8/2021	13.9	5011.00	21.7	5012.08	22.5	5015.82	20	5013.32	18.1	5011.03	10.7	5003.81	21.00	5004.16	15.80	5006.86
4/15/2022	13.1	5011.80	20.8	5012.98	21.6	5016.72	19.5	5013.82	17.5	5011.63	10.3	5004.21	19.80	5005.36	15.30	5007.36
4/27/2022	12.9	5012.00	20.5	5013.28	21	5017.32	19.6	5013.72	17.7	5011.43	10.1	5004.41	19.90	5005.26	15.00	5007.66
5/10/2022	12	5012.90	17.6	5016.18	20.8	5017.52	19.2	5014.12	17	5012.13	9.7	5004.81	19.50	5005.66	14.60	5008.06
5/18/2022	11.8	5013.10	17.4	5016.38	20.7	5017.62	18.8	5014.52	16.8	5012.33	9.5	5005.01	19.20	5005.96	14.10	5008.56
5/26/2022	11.5	5013.40	19.6	5014.18	20.6	5017.72	18.5	5014.82	16.5	5012.63	9.3	5005.21	19.10	5006.06	14.00	5008.66
6/8/2022	11.4	5013.50	17.1	5016.68	20.2	5018.12	18.3	5015.02	16.3	5012.83	9	5005.51	17.10	5008.06	13.70	5008.96
6/28/2022	10.7	5014.20	18.4	5015.38	20	5018.32	18.1	5015.22	16	5013.13	8.6	5005.91	16.20	5008.96	13.10	5009.56
7/26/2022	10.1	5014.80	18.3	5015.48	19.8	5018.52	17.8	5015.52	15.6	5013.53	8.2	5006.31	17.90	5007.26	12.40	5010.26
8/24/2022	10.4	5014.50	18.3	5015.48	19.9	5018.42	17.9	5015.42	15.8	5013.33	8.3	5006.21	18.00	5007.16	12.50	5010.16
9/9/2022	10.2	5014.70	18.2	5015.58	20	5018.32	17.8	5015.52	15.4	5013.73	8.1	5006.41	17.90	5007.26	12.80	5009.86
9/30/2022	10.3	5014.60		5033.78		5038.32		5033.32		5029.13		5014.51	17.60	5007.56	12.40	5010.26
10/10/2022	10.4	5014.50	18.5	5015.28	20.1	5018.22	18	5015.32	15.6	5013.53	8.4	5006.11	18.10	5007.06	13.00	5009.66
12/21/2022	12	5012.90	20	5013.78	21.3	5017.02	18.9	5014.42	16.4	5012.73	8.4	5006.11	17.40	5007.76	13.40	5009.26
2/7/2023	12.75	5012.15	20.7	5013.08									19.00	5006.16	14.70	5007.96
2/14/2023	13.1	5011.80	21	5012.78	22.1	5016.22	20	5013.32	17.6	5011.53	0		19.50	5005.66	14.80	5007.86
3/1/2023	13.4	5011.50	21.2	5012.58	22.4	5015.92	20.1	5013.22	17.8	5011.33	10	5004.51	19.80	5005.36	15.00	5007.66
3/21/2023	13.8	5011.10	21.4	5012.38	22.5	5015.82	20.2	5013.12								

Sandy Acres well monitoring

2nd Quarter 2025

	Well #1		Well #2		Well #3		Well #4		Well #5		Well #6		NW-1		NW-2	
Elevation at top of tube	5024.901		5033.775		5038.318		5033.32		5029.13		5014.509		5025.162		5022.655	
Date	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation
2/26/2025	11.8	5013.10	19.7	5014.08	20.8	5017.52	18.3	5015.02	15.8	5013.33	8.8	5005.71	18.70	5006.46	13.80	5008.86
3/20/2025	11.9	5013.00	19.8	5013.98	21	5017.32	18.6	5014.72	16.2	5012.93	8.1	5006.41	17.80	5007.36	13.20	5009.46
4/28/2025	11.2	5013.70	18.9	5014.88	19.9	5018.42	18	5015.32	15.4	5013.73	8.6	5005.91	18.00	5007.16	13.20	5009.46
5/22/2025	10.4	5014.50	18.4	5015.38	19.6	5018.72	17.7	5015.62	15.5	5013.63	7.6	5006.91	17.30	5007.86	12.10	5010.56
6/24/2025	10.8	5014.10	17.7	5016.08	19	5019.32	17	5016.32	15	5014.13	7.9	5006.61	17.40	5007.76	11.70	5010.96

Sandy Acres
Summary of Monitoring Well Water Level Data
2nd Quarter 2025

