



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

December 20, 2024

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
2024 4th quarter Groundwater Monitoring report

Dear Ms. Gagnon:

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

During this quarter we obtained a construction stormwater discharge permit from CDPHE and began building berms in the pond area. On November 29, 2024 a berm was completed across the pond on the south end to try to better assess and manage the inflow of groundwater. Water level indicators were installed on each side of the berm in order to assess the effect of the berm. These show that the water level is increasing on the south side of the berm with a slight drop of water elevation on the north side of the berm. We are currently working on building a berm on the south end inside the pond that is adjacent to the toe of the existing slope.

The well readings, shown below, indicate that the ground water levels are decreasing from the 3rd 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. Please see the attached table and graph showing the data.

Our Board has approved an IGA with Aurora to supply water for our substitute water supply plan. We are awaiting Aurora's approval so that it can be executed. Given that we had a prior agreement with Aurora they have agreed to release water on our behalf even though the IGA has not yet been executed.

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.
Roadway Maintenance Manager

Sandy Acres well monitoring

4th Quarter 2024

	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	18	5011.13	10.2	5004.31	20.00	5005.16	1	

Sandy Acres
Summary of Monitoring Well Water Level Data
4th Quarter 2024

