



April 13, 2023
Colorado Division of Reclamation, Mining and Safety
ATTN: Nikie Gagnon
1313 Sherman St. Suite 215
Denver, CO 80203

Re: M-1980-183 Quarterly Groundwater Monitoring Results Submission

Mr. Lennberg,

Attached is the quarterly groundwater level monitoring for Brannan Sand and Gravel Company's Pit 29 facility for the 1st Quarter 2023.

The hydrologic balance is being kept in check by the French drain, as verified by the readings from MW-4. There have not been any offsite impacts associated with hydrologic balance issues observed since the French drain was installed.

MW-2 groundwater levels appear to be similar to previous years and are currently exhibiting seasonal fluctuations.

MW-1 groundwater levels are exhibiting seasonal fluctuations but appear to be remaining steady. The groundwater levels in MW-1 have remained within a steady range since early 2019.

Please let me know if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Emily Schallenkamp".

Emily Schallenkamp
Environmental Specialist
Brannan Sand and Gravel Company, L.L.C.
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Brannan Pit #29				
Water Level Measurements				
Date Month-Year	Depth to Water (ft)			
	MW-1 OUT	MW-2 OUT	MW-3 OUT	MW-4 OUT
12/1/2005	21.50	22.50	11	N/A
1/1/2006	23.00	23.00	13	N/A
3/1/2006	22.00	20.00	11.5	N/A
5/1/2006	21.50	20.00	10.5	N/A
6/1/2010	20.50	17.70	N/A	N/A
9/1/2010	20.00	18.90	N/A	21.40
12/1/2010	20.90	23.17	N/A	26.25
3/1/2011	20.57	19.40	N/A	24.66
6/1/2011	19.40	15.74	N/A	21.80
9/1/2011	18.94	18.63	N/A	21.08
12/1/2011	20.20	21.10	N/A	21.15
3/1/2012	20.95	10.30	N/A	17.75
6/1/2012	20.89	18.47	N/A	14.09
9/12/2012	20.97	19.21	N/A	5.64
11/12/2012	-	-	N/A	4.84
12/12/2012	21.79	20.54	N/A	5.67
4/13/2013	22.84	18.16	N/A	5.61
4/22/2013	22.55	19.70	N/A	5.30
6/13/2013	22.48	18.78	N/A	5.60
9/1/2013	21.66	19.15	N/A	4.52
12/13/2013	23.19	20.60	N/A	5.60
3/14/2014	24.15	16.75	N/A	6.09
6/14/2014	23.32	17.76	N/A	5.18
9/14/2014	22.91	18.80	N/A	4.64
11/14/2014	23.60	19.62	N/A	5.22
12/1/2014	24.85	20.48	N/A	6.02
3/31/2015	26.87	17.50	N/A	6.78
6/15/2015	21.79	16.69	N/A	4.79
9/15/2015	19.94	17.75	N/A	5.27
12/15/2015	21.42	19.15	N/A	6.54
4/6/2016	23.11	20.06	N/A	9.15
7/13/2016	20.66	18.64	N/A	6.33
8/30/2016	20.61	19.86	N/A	9.01
9/27/2016	20.78	20.37	N/A	8.77
10/31/2016	20.53	20.91	N/A	9.09
11/21/2016	20.58	21.05	N/A	9.05
12/28/2016	21.61	21.93	N/A	9.15
1/26/2017	22.49	22.31	N/A	9.20
2/27/2017	23.44	22.60	N/A	9.20
3/28/2017	23.35	19.78	N/A	9.19
5/22/2017	21.12	19.25	N/A	8.90
6/14/2017	20.76	18.88	N/A	8.91
7/17/2017	19.68	18.60	N/A	8.94
8/11/2017	19.81	19.5	N/A	8.11
9/11/2017	19.97	19.60	N/A	8.96
10/16/2017	20.42	20.30	N/A	8.99
11/21/2017	22.48	21.58	N/A	9.12
12/19/2017	22.39	22.14	N/A	9.06
1/19/2018	23.32	22.58	N/A	9.22
2/16/2018	23.90	22.81	N/A	9.27
3/12/2018	24.48	23.00	N/A	9.38
4/30/2018	22.80	20.19	N/A	9.22
5/21/2018	21.95	19.75	N/A	9.18
6/22/2018	20.80	19.08	N/A	9.05
7/12/2018	20.50	19.24	N/A	9.06
8/15/2018	20.60	19.83	N/A	9.01
9/5/2018	21.75	20.11	N/A	9.05
10/18/2018	17.95	20.81	N/A	9.05
11/19/2018	17.04	21.48	N/A	9.15
12/14/2018	17.34	21.87	N/A	9.20
2/28/2019	18.21	22.49	N/A	9.30
3/28/2019	18.44	22.61	N/A	9.31
4/30/2019	18.52	19.60	N/A	9.23
5/31/2019	16.18	19.12	N/A	9.12
6/20/2019	15.56	18.57	N/A	9.05
7/18/2019	15.19	17.86	N/A	9.00
9/27/2019	15.29	19.29	N/A	9.01
10/21/2019	15.40	19.69	N/A	9.01
11/25/2019	15.96	20.95	N/A	9.04
1/3/2020	16.44	21.40	N/A	9.19
1/27/2020	16.73	21.62	N/A	9.19
2/19/2020	17.05	21.77	N/A	9.22
3/10/2020	17.25	21.89	N/A	9.23
4/15/2020	16.53	19.19	N/A	9.13
5/12/2020	15.73	18.53	N/A	9.08
6/15/2020	15.32	18.01	N/A	9.00
7/14/2020	15.07	18.13	N/A	8.98
8/14/2020	15.40	19.10	N/A	8.99
9/14/2020	15.55	19.61	N/A	9.00
10/12/2020	15.70	19.86	N/A	9.02
11/12/2020	16.01	20.95	N/A	9.06
12/21/2020	16.65	21.53	N/A	9.16
1/13/2021	17.00	21.73	N/A	9.23
2/16/2021	17.54	22.05	N/A	9.23
3/12/2021	17.89	22.28	N/A	9.25
4/12/2021	17.82	18.28	N/A	9.18
5/14/2021	16.43	19.65	N/A	9.05
6/21/2021	15.51	17.51	N/A	9.05
7/20/2021	14.93	17.83	N/A	9.08
8/16/2021	14.9	18.53	N/A	9.00
9/17/2021	15.03	19.35	N/A	9.05
10/15/2021	15.35	20.11	N/A	9.05
11/12/2021	15.44	20.95	N/A	9.08
12/14/2021	15.99	21.49	N/A	9.17
2/1/2022	16.29	22.29	N/A	9.3
2/28/2022	17.9	22.14	N/A	9.30
3/25/2022	17.55	22.29	N/A	9.30
4/29/2022	16.55	19.2	N/A	9.20
5/13/2022	16.1	19.3	N/A	9.2
6/9/2022	15.6	18.75	N/A	9.1
7/13/2022	15.2	18.7	N/A	9.15
8/15/2022	15.24	19.41	N/A	9.12
9/14/2022	15.3	19.65	N/A	9.05
10/12/2022	15.55	20.2	N/A	9.1
11/14/2022	15.8	20.75	N/A	9.05
12/9/2022	16.25	21.4	N/A	9.15
1/13/2023	16.85	21.7	N/A	9.2
2/13/2023	17.25	22	N/A	9.2
3/8/2023	17.55	22.1	N/A	9.2
4/11/2023	17.5	18.7	N/A	9.15

MW 1-4 Depth to Water Below Ground Surface at Brannan Pit #29

