

STATE OF
COLORADO

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

M-1980-183 Brannan Pit 29 Quarterly Monitoring Report

1 message

Daniel Dodero <ddodero@brannan1.com>

Mon, Jan 13, 2025 at 2:18 PM

To: "nikie.gagnon@state.co.us" <nikie.gagnon@state.co.us>

Cc: Emily Schallenkamp <eSchallenkamp@brannan1.com>, Scott Legg <slegg@brannan1.com>

Dear Ms. Gagnon,

Please find a letter with 4th quarter groundwater level monitoring data for Brannan Sand and Gravel Company's Pit 29 facility attached. The letter contains well information, groundwater elevation measurements, and a graph of groundwater elevations. Have a great day.

Best,

Daniel Dodero

Environmental Technician

C-303-598-1540

**2025.01.13 M-1980-183 Q4 2024 Report.pdf**

366K



January 13, 2025

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

Ms. Gagnon,

Please find attached quarterly groundwater level monitoring data for Brannan Sand and Gravel Company's Pit 29 facility for the 4th Quarter 2024:

- Attachment A
 - Table 1: Well Information
 - Table 2: Groundwater Elevation Measurements
- Attachment B
 - Graph of Groundwater Elevations

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. 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 "Daniel Dodero".

Daniel Dodero
Environmental Technician
Brannan Sand and Gravel Company, L.L.C.
303-598-1540
ddodero@brannan1.com

Attachment A

Well Information & Water Elevation Measurements

Brannan Sand Gravel Company, LLC
Pit 29: M-1980-183 Quarterly Groundwater Monitoring
Attachment A

Table 1: Well Information			
Well Information	MW-1 OUT	MW-2 OUT	MW-4 OUT
Location	39.92871, -104.85185	39.92290, -104.85384	39.92887 -104.85898
Land Surface Elevation (ft)	5031.8	5039.2	5014.2
Top of Casing Elevation (ft)	5032.7	5042.0	5016.5
Total Depth (ft)	46	35	30
Screened Interval (ft)	No data	10-25	10-30
Completion Date	No data	4/19/1960	9/7/2010

Table 2: Water Level Measurements			
Date	MW-1 OUT	MW-2 OUT	MW-4 OUT
9/1/2010	5011.83	5020.30	4992.82
12/1/2010	5010.93	5016.04	4987.97
3/1/2011	5011.27	5019.80	4989.56
6/1/2011	5012.43	5023.46	4992.42
9/1/2011	5012.89	5020.57	4993.14
12/1/2011	5011.63	5018.10	4993.07
3/1/2012	5010.88	5028.90	4996.47
6/1/2012	5010.94	5020.73	5000.13
9/12/2012	5010.86	5019.99	5008.58
11/12/2012	-	-	5009.38
12/12/2012	5010.04	5018.66	5008.55
4/13/2013	5008.99	5021.04	5008.61
4/22/2013	5009.28	5019.50	5008.92
6/13/2013	5009.36	5020.42	5008.62
9/1/2013	5010.17	5020.05	5009.70
12/13/2013	5008.64	5018.60	5008.62
3/14/2014	5007.68	5022.45	5008.13
6/14/2014	5008.52	5021.45	5009.04
9/14/2014	5008.92	5020.40	5009.58
11/14/2014	5008.23	5019.58	5008.99
12/1/2014	5006.98	5018.72	5008.20
3/31/2015	5004.96	5021.71	5007.44
6/15/2015	5010.04	5022.51	5009.43
9/15/2015	5011.89	5021.45	5008.95
12/15/2015	5010.41	5020.05	5007.68
4/6/2016	5008.72	5019.14	5005.07
7/13/2016	5011.17	5020.56	5007.89
8/30/2016	5011.22	5019.34	5005.21
9/27/2016	5011.05	5018.83	5005.45
10/31/2016	5011.30	5018.29	5005.13
11/21/2016	5011.25	5018.15	5005.17
12/28/2016	5010.22	5017.27	5005.07

Brannan Sand Gravel Company, LLC
Pit 29: M-1980-183 Quarterly Groundwater Monitoring

Attachment A

1/26/2017	5009.34	5016.89	5005.02
2/27/2017	5008.39	5016.60	5005.02
3/28/2017	5008.48	5019.42	5005.03
5/22/2017	5010.71	5019.95	5005.32
6/14/2017	5011.07	5020.32	5005.31
7/17/2017	5012.15	5020.60	5005.28
8/11/2017	5012.02	5019.70	5006.11
9/11/2017	5011.86	5019.60	5005.26
10/16/2017	5011.41	5018.90	5005.23
11/21/2017	5009.35	5017.62	5005.10
12/19/2017	5009.44	5017.06	5005.16
1/19/2018	5008.51	5016.62	5005.00
2/16/2018	5007.93	5016.39	5004.95
3/12/2018	5007.35	5016.20	5004.84
4/30/2018	5009.03	5019.01	5005.00
5/21/2018	5009.88	5019.45	5005.04
6/22/2018	5011.03	5020.12	5005.17
7/12/2018	5011.33	5019.96	5005.16
8/15/2018	5011.23	5019.37	5005.21
9/5/2018	5010.08	5019.09	5005.17
10/18/2018	5013.88	5018.39	5005.17
11/19/2018	5014.79	5017.72	5005.07
12/14/2018	5014.49	5017.33	5005.02
2/28/2019	5013.62	5016.71	5004.92
3/28/2019	5013.39	5016.59	5004.91
4/30/2019	5013.31	5019.60	5004.99
5/31/2019	5015.65	5020.08	5005.10
6/20/2019	5016.27	5020.63	5005.17
7/18/2019	5016.64	5021.34	5005.22
9/27/2019	5016.54	5019.91	5005.21
10/21/2019	5016.43	5019.51	5005.21
11/25/2019	5015.87	5018.25	5005.18
1/3/2020	5015.39	5017.80	5005.03
1/27/2020	5015.10	5017.58	5005.03
2/19/2020	5014.78	5017.43	5005.00
3/10/2020	5014.58	5017.31	5004.99
4/15/2020	5015.30	5020.01	5005.09
5/12/2020	5016.10	5020.67	5005.14
6/15/2020	5016.51	5021.19	5005.22
7/14/2020	5016.76	5021.07	5005.24
8/14/2020	5016.43	5020.10	5005.23
9/14/2020	5016.28	5019.59	5005.22
10/12/2020	5016.13	5019.34	5005.20
11/12/2020	5015.82	5018.25	5005.16
12/21/2020	5015.18	5017.67	5005.06
1/13/2021	5014.83	5017.47	5004.99
2/16/2021	5014.29	5017.15	5004.99

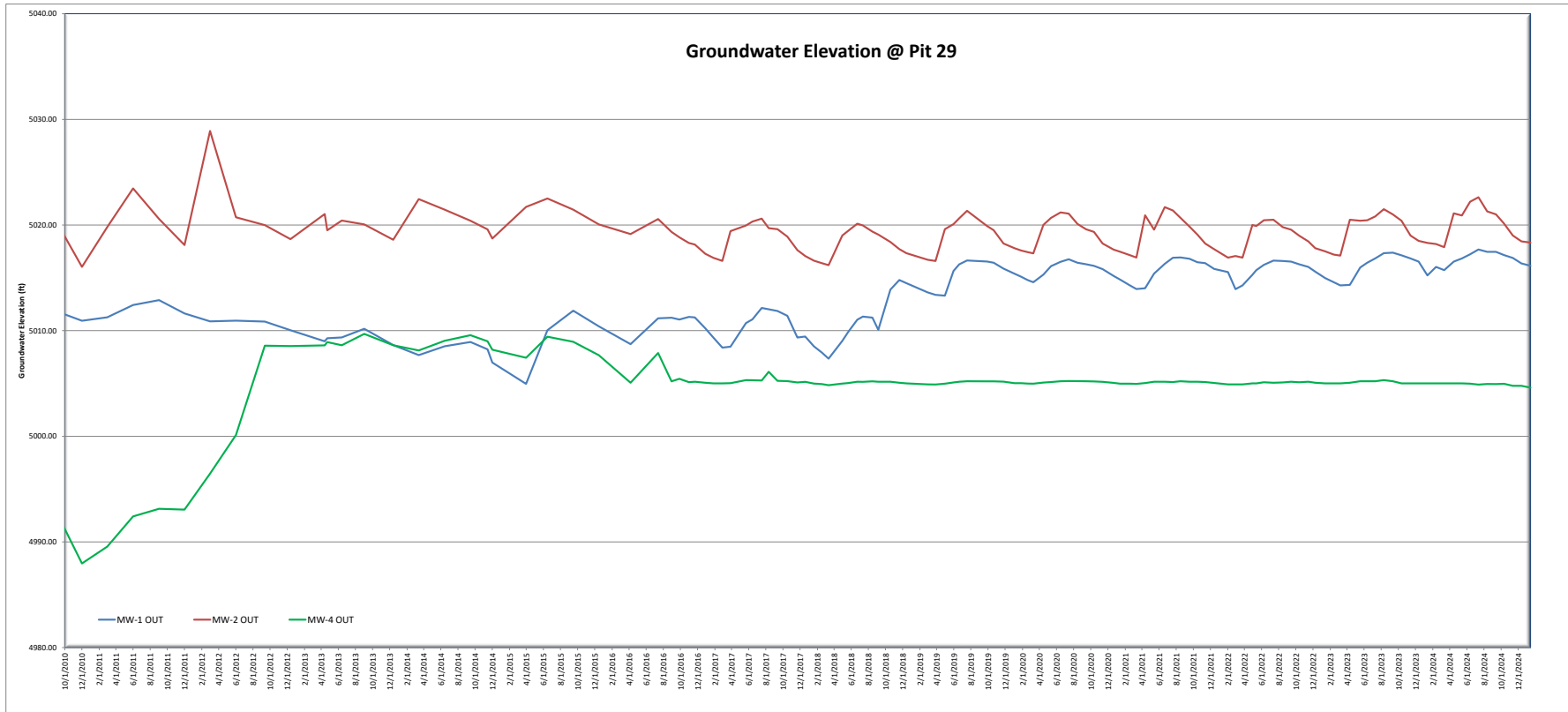
Brannan Sand Gravel Company, LLC
Pit 29: M-1980-183 Quarterly Groundwater Monitoring

Attachment A

3/12/2021	5013.94	5016.92	5004.97
4/12/2021	5014.01	5020.92	5005.04
5/14/2021	5015.40	5019.55	5005.17
6/21/2021	5016.32	5021.69	5005.17
7/20/2021	5016.90	5021.37	5005.14
8/16/2021	5016.93	5020.67	5005.22
9/17/2021	5016.80	5019.85	5005.17
10/15/2021	5016.48	5019.09	5005.17
11/12/2021	5016.39	5018.25	5005.14
12/14/2021	5015.84	5017.71	5005.05
2/1/2022	5015.54	5016.91	5004.92
2/28/2022	5013.93	5017.06	5004.92
3/25/2022	5014.28	5016.91	5004.92
4/29/2022	5015.28	5020.00	5005.02
5/13/2022	5015.73	5019.90	5005.02
6/9/2022	5016.23	5020.45	5005.12
7/13/2022	5016.63	5020.50	5005.07
8/15/2022	5016.59	5019.79	5005.10
9/14/2022	5016.53	5019.55	5005.17
10/12/2022	5016.28	5019.00	5005.12
11/14/2022	5016.03	5018.45	5005.17
12/9/2022	5015.58	5017.80	5005.07
1/13/2023	5014.98	5017.50	5005.02
2/13/2023	5014.58	5017.20	5005.02
3/8/2023	5014.28	5017.10	5005.02
4/11/2023	5014.33	5020.50	5005.07
5/18/2023	5015.98	5020.40	5005.22
6/12/2023	5016.43	5020.45	5005.22
7/10/2023	5016.83	5020.80	5005.22
8/10/2023	5017.33	5021.50	5005.32
9/11/2023	5017.38	5021.00	5005.22
10/12/2023	5017.13	5020.40	5005.02
11/13/2023	5016.83	5019.00	5005.02
12/12/2023	5016.53	5018.50	5005.02
1/12/2024	5015.23	5018.30	5005.02
2/12/2024	5016.03	5018.20	5005.02
3/12/2024	5015.73	5017.90	5005.02
4/15/2024	5016.53	5021.10	5005.02
5/14/2024	5016.83	5020.90	5005.02
6/12/2024	5017.23	5022.20	5004.99
7/12/2024	5017.68	5022.62	5004.90
8/12/2024	5017.46	5021.293	5005.0
9/12/2024	5017.46	5021.013	5004.9
10/11/2024	5017.15	5020.133	5005.0
11/11/2024	5016.88	5019.013	5004.8
12/12/2024	5016.36	5018.453	5004.8
1/13/2025	5016.14	5018.333	5004.6

Attachment B

Graph of Groundwater Elevations



*Missing data from 11/12/2012 for MW-1 & MW-2 has been interpolated to provide graphical continuity.