Jesse Martindale
Sr. Environmental Engineer

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September 22, 2025
OKLAHOMA WATER RESOURCES BOARD

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Jason Tutkowski
Oklahoma Water Resources Board
3800 N. Classen
Oklahoma City, OK 73118

Re: Martin Marietta Davis Quarry 2025 Q2 Report

Dear Mr. Tutkowski:

Attached please find the Q1 monitoring report and associated data and calculations for the Martin Marietta Davis Quarry with the requested updated information.

As is typical at the Davis Quarry, we see more precipitation and runoff entering the pit than the total water we use from the pit. Also typically, we do not see a rise in water levels in the pit that correspond to the additional precipitation and runoff that we know is entering the pit and not being used. Thus we still see a net decrease of water within the pit indicating that we continue to augment groundwater through the pit.

Regards,

Jesse Martindale

Jesse Martindale
Sr. Environmental Engineer

North Texas/Oklahoma District
1503 LBJ Freeway Suite 400, Dallas, Texas 75234
t. (972) 647-3742 f. (972) 647-3363 m. (817) 307-9128 e. jesse.martindale@martinmarietta.com
www.martinmarietta.com

MM Davis Quarry 2025 Monitoring Report

All volumes are in acre-feet.

	Total Groundwater Entering Pit	Total Stormwater Entering Pit	Total Stormwater Diverted from Pit	Total Water Diverted	Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Consumptive Use of Stormwater	Consumptive Use of Groundwater	Groundwater Pumped From Well
January-25	-4.79	3.56	3.56	-1.23	N/A	-4.79	0.00	9.26	0.00	0.00
February-25	-0.25	1.50	1.50	1.25	N/A	-0.25	0.00	3.05	0.00	0.00
March-25	0.67	13.73	13.73	14.41	N/A	0.67	0.00	6.47	0.00	0.00
1st QTR Totals	-4.36	18.79	18.79	14.43	0.00	-4.36	0.00	18.78	0.00	0.00
April-25	-31.23	59.22	59.22	28.00	N/A	-31.23	0.00	4.50	0.00	0.00
May-25	-43.39	30.40	30.40	-12.99	N/A	-43.39	0.00	5.81	0.00	0.00
June-25	-28.73	47.23	47.23	18.49	N/A	-28.73	0.00	5.20	0.00	0.00
2nd QTR Totals	-103.35	136.85	136.85	33.50	0.00	-103.35	0.00	15.51	0.00	0.00

Note: Negative entries for Total Groundwater Entering Pit indicate that stormwater is entering the rock formation via the pit.

Total groundwater entering the pit = total stormwater entering the pit - total water diverted

Groundwater Right Value (MEPS): 68 acre-feet

Consumptive Use

	January	February	March	April	May	June
Water Truck Usage	0.41	1.05	3.20	1.80	2.10	1.88
Moisture Content of Product Shipped	2.34	2.00	3.27	2.70	3.71	3.32
Misc on site use	-	-	-	-	-	-
Misc off site	6.51	-	-	-	-	-
Total	9.26	3.05	6.47	4.50	5.81	5.20

Shipped Tons	January	February	March	April	May	June
Base	25,341	15,622	25,348	24,638	38,290	23,915
Coarse Aggregate	73,068	72,679	107,260	86,455	108,235	103,841
Fine Aggregate	18,396	15,983	31,086	23,946	33,978	35,083
Total	116,805	104,283	163,693	135,038	180,503	162,839
Moisture Shipped	2.34	2.00	3.27	2.70	3.71	3.32

Davis Water Balance

	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25
Monitoring Period, Days		31	28	31	30	31	30
Monthly Production, tons	133,509	100,201	91,974	154,591	141,792	137,433	142,841
Product Moisture Content		3.5%	3.5%	3.5%	3.5%	3.5%	3.5%
Water Truck Loads		15	38	116	65	76	68
***Month End* Water Elevs.**							
1) Freshwater pond, depth to water	19.37432	20.74881	17.84724	14.8811245	23.704851	22.93614	19.66877
2) Pit Sump, depth to water	60.67374	58.43507	58.42458	59.433167	61.564064	58.338318	60.4331
Pond Surface Acres							
1) Freshwater pond		1.0	1.0	1.0	1.1	1.1	1.1
2) Pit Sump		5.79	5.79	5.79	5.79	5.79	5.79
Total surface acres		6.794314	6.794314	6.794313535	6.85431354	6.8543135	6.854313535
Pond Water Volume Change							
1) Freshwater pond		1.374	-2.902	-2.966	9.353	-0.815	-3.463
2) Pit Sump		-12.972	-0.061	5.844	12.347	-18.691	12.138
3) Change in settling pond storage		0.000	0.000	0.000	0.000	0.000	0.000
Net Volume Change		**-11.597**	**-2.962**	**2.878**	**21.700**	**-19.506**	**8.674**
Water Inputs, ac-ft							
Rural Water		0.000	0.037	0.028	0.000	0.000	0.000
Lake Water		0.000	0.000	0.000	0.000	0.000	0.000
Well Water		0.000	0.000	0.000	0.000	0.000	0.000
Precipitation		3.558	1.498	13.734	59.225	30.401	47.225
Total Water Input		**3.558**	**1.535**	**13.762**	**59.225**	**30.401**	**47.225**
Water Usage, ac-ft							
Product moisture content		2.580	2.369	3.981	3.652	3.539	3.679
Haul road dust control		0.414	1.050	3.204	1.795	2.099	1.878
Evaporation losses		0.866	0.834	4.371	0.849	0.879	4.261
Misc usage		6.51	-	-	-	-	-
Total Water Usage, Ac-ft		**10.368**	**4.252**	**11.556**	**6.296**	**6.517**	**9.818**
Net Water Input		**-6.810**	**-2.717**	**2.206**	**52.929**	**23.883**	**37.408**
emergency storage of precipitation and runoff, ac-ft							
Groundwater Inflow		-4.787	-0.245	0.672	-31.229	-43.389	-28.733
Groundwater Inflow, Avg Ac-ft/Day		-0.154	-0.009	0.022	-1.041	-1.400	-0.958
Groundwater Inflow, Avg Gallons/Day		-50,321	-2,854	7,067	-339,201	-456,079	-312,092

April Precipitation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.364	area draining into pit
S (pit)	0.000	area with direct interception
Pit - Direct Interception (>95 ft deep)	74.91	subject to refinement
Pit fringe (area drains to pit)	90.41	subject to refinement
Drainage to Pit (total area)	165.32	subject to refinement

		Quarry are	Fringe area	
Date	**Precip, in.**	**Runoff, in.**	**Runoff, in.**	**Evapor, in/day**
1-Apr	0.00	0.00	0.00	0.05
2-Apr	0.05	0.05	0.00	0.04
3-Apr	0.26	0.26	0.00	0.06
4-Apr	0.88	0.88	0.00	0.05
5-Apr	0.12	0.12	0.00	0.07
6-Apr	0.00	0.00	0.00	0.06
7-Apr	0.00	0.00	0.00	0.09
8-Apr	0.00	0.00	0.00	0.09
9-Apr	0.00	0.00	0.00	0.04
10-Apr	0.00	0.00	0.00	0.05
11-Apr	0.00	0.00	0.00	0.04
12-Apr	0.00	0.00	0.00	0.05
13-Apr	0.00	0.00	0.00	0.03
14-Apr	0.00	0.00	0.00	0.08
15-Apr	0.00	0.00	0.00	0.08
16-Apr	0.00	0.00	0.00	0.02
17-Apr	0.00	0.00	0.00	0.03
18-Apr	0.16	0.16	0.00	0.08
19-Apr	0.17	0.17	0.00	0.04
20-Apr	0.37	0.37	0.00	0.05
21-Apr	0.67	0.67	0.00	0.02
22-Apr	0.00	0.00	0.00	0.02
23-Apr	0.15	0.15	0.00	0.05
24-Apr	0.96	0.96	0.00	0.06
25-Apr	0.60	0.60	0.00	0.06
26-Apr	1.39	1.39	0.50	0.06
27-Apr	0.00	0.00	0.00	0.05
28-Apr	0.00	0.00	0.00	0.02
29-Apr	0.71	0.71	0.00	0.02
30-Apr	1.60	1.60	0.65	0.01
		0.00	0.00	
		8.09	1.16	
Volume, ac-ft		**50.50**	**8.72**	**1.486**
Total Vol, ac-ft		**59.22**		

May Precipitation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.364	area draining into pit
S (pit)	0.000	area with direct interception
Pit - Direct Interception (>95 ft deep)	74.91	subject to refinement
Pit fringe (area drains to pit)	90.41	subject to refinement
Drainage to Pit (total area)	165.32	subject to refinement

		Quarry are	Fringe area	
Date	**Precip, in.**	**Runoff, in.**	**Runoff, in.**	**Evapor, in/day**
1-May	0.00	0.00	0.00	0.05
2-May	1.24	1.24	0.00	0.04
3-May	0.00	0.00	0.00	0.06
4-May	0.00	0.00	0.00	0.05
5-May	0.04	0.04	0.00	0.07
6-May	0.72	0.72	0.00	0.06
7-May	0.01	0.01	0.00	0.09
8-May	0.00	0.00	0.00	0.09
9-May	0.00	0.00	0.00	0.04
10-May	0.00	0.00	0.00	0.05
11-May	0.00	0.00	0.00	0.04
12-May	0.00	0.00	0.00	0.05
13-May	0.00	0.00	0.00	0.03
14-May	0.00	0.00	0.00	0.08
15-May	0.00	0.00	0.00	0.08
16-May	0.00	0.00	0.00	0.02
17-May	0.00	0.00	0.00	0.03
18-May	0.00	0.00	0.00	0.08
19-May	0.01	0.01	0.00	0.04
20-May	0.00	0.00	0.00	0.05
21-May	0.00	0.00	0.00	0.02
22-May	1.36	1.36	0.00	0.02
23-May	0.00	0.00	0.00	0.05
24-May	0.06	0.06	0.00	0.06
25-May	0.81	0.81	0.00	0.06
26-May	0.57	0.57	0.00	0.06
27-May	0.00	0.00	0.00	0.05
28-May	0.00	0.00	0.00	0.02
29-May	0.05	0.05	0.00	0.02
30-May	0.00	0.00	0.00	0.01
31-May	0.00	0.00	0.00	0.05
		4.87	0.00	0.00
Volume, ac-ft		**30.40**	**0.00**	**1.539**
Total Vol, ac-ft		**30.40**		

June Precipitation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.364	area draining into pit
S (pit)	0.000	area with direct interception
Pit - Direct Interception (>95 ft deep)	73.32	subject to refinement
Pit fringe (area drains to pit)	92.00	subject to refinement
Drainage to Pit (total area)	165.32	subject to refinement

		Quarry area	Fringe area	
Date	**Precip, in.**	**Runoff, in.**	**Runoff, in.**	**Evapor, in/day**
1-Jun	0.56	0.56	0.00	0.23
2-Jun	0.00	0.00	0.00	0.30
3-Jun	1.39	1.39	0.50	0.19
4-Jun	0.03	0.03	0.00	0.09
5-Jun	0.06	0.06	0.00	0.18
6-Jun	0.90	0.90	0.00	0.18
7-Jun	0.00	0.00	0.00	0.26
8-Jun	1.19	1.19	0.00	0.27
9-Jun	0.00	0.00	0.00	0.27
10-Jun	0.00	0.00	0.00	0.22
11-Jun	0.00	0.00	0.00	0.12
12-Jun	0.00	0.00	0.00	0.15
13-Jun	0.00	0.00	0.00	0.23
14-Jun	0.00	0.00	0.00	0.20
15-Jun	1.42	1.42	0.52	0.16
16-Jun	0.00	0.00	0.00	0.25
17-Jun	0.00	0.00	0.00	0.35
18-Jun	0.01	0.01	0.00	0.24
19-Jun	0.00	0.00	0.00	0.27
20-Jun	0.00	0.00	0.00	0.35
21-Jun	0.00	0.00	0.00	0.37
22-Jun	0.00	0.00	0.00	0.39
23-Jun	0.00	0.00	0.00	0.35
24-Jun	0.00	0.00	0.00	0.32
25-Jun	0.00	0.00	0.00	0.28
26-Jun	0.00	0.00	0.00	0.27
27-Jun	0.30	0.30	0.00	0.18
28-Jun	0.02	0.02	0.00	0.22
29-Jun	0.00	0.00	0.00	0.35
30-Jun	0.56	0.56	0.00	0.22
		0.00	0.00	
		6.44	1.03	
Volume, ac-ft		**39.35**	**7.88**	**7.46**
Total Vol, ac-ft		**47.23**		