

2025 1st Quarter Report

Report 2025

North Troy Quarry

Mill Creek, OK

Vulcan Materials Company

RECEIVED

3/3/0/2026

OKLAHOMA WATER RESOURCES BOARD

VMC North Troy 2025 Monitoring Report

All volumes are in acre-feet.

	All Water Pumped	Total Stormwater Entering Pit note(a)	Total Groundwater Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Defined Elements of Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-24	453.60	13.76	439.84	33.18	422.16	0.00	3.46	0.00	0.00	219.50
February-24	474.46	3.55	470.91	30.69	448.76	0.00	8.01	0.00	0.00	219.50
March-24	516.45	26.12	490.32	36.50	482.66	0.00	7.14	0.00	0.00	219.50
1st QTR Totals	1444.51	43.43	1401.08	100.37	1353.58	0.00	18.61	0.00	0.00	N/A
April-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
May-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
June-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
2nd QTR Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
July-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
August-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
September-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
3rd QTR Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
October-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
November-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
December-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
4th QTR Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
2024 Totals	1444.51	43.43	1401.08	100.37	1353.58	0.00	18.61	0.00	0.00	219.50
2024 Total (adj)	1444.51	43.43	1401.08	100.37	1353.58	0.00	18.61	0.00	0.00	219.50

1st Qtr notes Production well electric issue - unable pump / no sample

2nd Qtr notes

3rd Qtr notes

4th Qtr notes

(a) Total Stormwater = Volume of precipitation that falls into producing mine pit and volume of precipitation that falls onto producing mine and flows over the land surface into the mine pit.

MILL CREEK 2025 AUGMENTATION and GAUGE DATA

Start Date	Stop Date		Augmentation Ac - Ft pumped	Stormwater Pumped AF	Mill Creek Stream gauge Reading	
2/1/2025			No pump to creek			
3/1/2025			No pump to creek			
		Total	0.00			

0.00 Pumped to Mill Creek

0.00 Augmented to Mill Creek

Stormwater collected entering pit

0 Stormwater pumped to Mill Creek

January Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	gravel road		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	Composite Run
CN (pit)	100	area with direct interception	
S (pit fringe)		area with direct interception	
S (pit)			
Pit - Direct Interception (>95 ft deep)	129.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)		subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.
1-Jan	0.00			0.16
2-Jan	0.00			0.07
3-Jan	0.00			0.09
4-Jan	0.00			0.06
5-Jan	0.14			0.07
6-Jan	0.00			0.13
7-Jan	0.00			0.09
8-Jan	0.00			0.07
9-Jan	0.00			0.12
10-Jan	0.18			0.15
11-Jan	0.40			0.19
12-Jan	0.11			0.15
13-Jan	0.00			0.09
14-Jan	0.00			0.17
15-Jan	0.00			0.16
16-Jan	0.01			0.18
17-Jan	0.00			0.08
18-Jan	0.00			0.10
19-Jan	0.00			0.11
20-Jan	0.00			0.09
21-Jan	0.00			0.09
22-Jan	0.00			0.05
23-Jan	0.00			0.06
24-Jan	0.00			0.04
25-Jan	0.00			0.04
26-Jan	0.00			0.05
27-Jan	0.00			0.13
28-Jan	0.00			0.09
29-Jan	0.19			0.09
30-Jan	0.18			0.32
31-Jan	0.00			0.04
Sum				

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

February Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	gravel road		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	Composite Run
CN (pit)	100	area with direct interception	
S (pit fringe)		area with direct interception	
S (pit)			
Pit - Direct Interception (>95 ft deep)	129.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)		subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.
1-Feb	0.00			0.04
2-Feb	0.00			0.03
3-Feb	0.00			0.08
4-Feb	0.00			0.14
5-Feb	0.02			0.1
6-Feb	0.01			0.14
7-Feb	0.00			0.09
8-Feb	0.01			0.01
9-Feb	0.00			0.08
10-Feb	0.00			0.06
11-Feb	0.03			0.09
12-Feb	0.18			0.17
13-Feb	0.00			0.15
14-Feb	0.00			0.22
15-Feb	0.02			0.21
16-Feb	0.00			0.09
17-Feb	0.00			0.09
18-Feb	0.00			0.1
19-Feb	0.00			0.24
20-Feb	0.00			0.23
21-Feb	0.00			0.27
22-Feb	0.00			0.23
23-Feb	0.00			0.23
24-Feb	0.00			0.07
25-Feb	0.00			0.09
26-Feb	0.00			0.11
27-Feb	0.00			0.23
28-Feb	0.00			0.25
Sum				

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

March Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	gravel road		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	Composite Run
CN (pit)	100	area with direct interception	
S (pit fringe)		area with direct interception	
S (pit)			
Pit - Direct Interception (>95 ft deep)	129.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)		subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.
1-Mar	0.00			0.13
2-Mar	0.00			0.07
3-Mar	0.00			0.14
4-Mar	0.04			0.17
5-Mar	0.00			0.3
6-Mar	0.00			0.23
7-Mar	0.00			0.13
8-Mar	0.70			0.34
9-Mar	0.00			0.03
10-Mar	0.00			0.14
11-Mar	0.00			0.27
12-Mar	0.00			0.15
13-Mar	0.00			0.19
14-Mar	0.00			0.14
15-Mar	0.00			0.57
16-Mar	0.00			0.18
17-Mar	0.00			0.2
18-Mar	0.00			0.46
19-Mar	0.00			0.4
20-Mar	0.00			0.45
21-Mar	0.00			0.21
22-Mar	0.00			0.3
23-Mar	0.00			0.3
24-Mar	0.00			0.31
25-Mar	0.00			0.22
26-Mar	0.09			0.28
27-Mar	0.00			0.3
28-Mar	0.58			0.25
29-Mar	0.00			0.11
30-Mar	0.00			0.21
31-Mar	0.00			0.15
Sum				

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

Monthly Water Data, ac-ft

	Water Diverted From Pit	Storm Water Entering Pit	Net Sump Volume Change	Groundwater Sent To Holding Basin	Groundwater Sent To Infiltration Areas	Groundwater Used For Stream Augmentation	Evaporation	Moisture Content of Product Shipped	Water Truck Usage	Misc Pit Water Use On Site	Misc Pit Water Use Off Site	Production Well Permit 2002-602	North Well Permit 20060601A
January-25	453.60	13.76		33.18	420.42	0.00	0.43	2.11	0.92	0.00	0.00	0.00	0.00
February-25	474.46	3.55		30.69	443.77	0.00	0.54	2.73	4.74	0.00	0.00	0.00	0.00
March-25	516.45	26.12		36.50	479.95	0.00	0.98	2.98	3.18	0.00	0.00	0.00	0.00
April-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
May-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
June-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
July-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
August-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
September-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
October-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
November-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00
December-25		0.00			0.00	0.00	0.00	0.00		0.00	0.00		0.00

Settling Cell Evaporation and Infiltration

	FO2 East						FO2 West						FO3/FO4 South Settling Cell							
	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Evaporation, ac-ft	Total Infiltration, ac-ft
January-25	50	330		16.00	0.08		50	350		0.00	0.22		200	435			16.00	0.03		
February-25	50	330		0.00	0.08		50	350		20.00	0.22		200	435			20.00	0.03		
March-25	50	330		25.00	0.08		50	350		0.00	0.22		200	435			25.00	0.03		
April-25	50	330			0.08		50	350			0.22		200	435				0.03		
May-25	50	330			0.08		50	350			0.22		200	435				0.03		
June-25	50	330			0.08		50	350			0.22		200	435				0.03		
July-25	50	330			0.08		50	350			0.22		200	435				0.03		
August-25	50	330			0.08		50	350			0.22		200	435				0.03		
September-25	50	330			0.08		50	350			0.22		200	435				0.03		
October-25	50	330			0.08		50	350			0.22		200	435				0.03		
November-25	50	330			0.08		50	350			0.22		200	435				0.03		
December-25	50	330			0.08		50	350			0.22		200	435				0.03		

January Shipments			February Shipments			March Shipments		
	Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped
Base Products	626		Base Products	420		Base Products	1,236	
Coarse			Coarse			Coarse		
Aggregates	138,885		Aggregates	189,577		Aggregates	238,353	
Fine			Fine			Fine		
Aggregates	13,333		Aggregates	13,807		Fine Aggregates	2,721	