

2025 3rd Quarter Report

Report 2025

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North Troy Quarry

3/30/2026

Mill Creek, OK

Vulcan Materials Company

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	545.90	134.04	411.86	41.82	510.07	0.00	8.44	0.00	0.00	219.50
May-24	768.18	90.62	677.55	35.89	735.11	0.00	7.25	0.00	0.00	219.50
June-24	699.12	98.68	600.44	44.79	660.81	0.00	9.93	0.00	0.00	219.50
2nd QTR Totals	2013.19	323.34	1689.85	122.50	1905.99	0.00	25.62	0.00	0.00	N/A
July-24	701.27	22.25	679.02	41.83	662.05	0.00	16.36	0.00	0.00	219.50
August-24	685.83	36.87	648.96	35.74	656.33	0.00	18.32	0.00	0.00	219.50
September-24	741.79	1.29	740.50	36.29	708.22	0.00	17.94	0.00	0.00	219.50
3rd QTR Totals	2128.89	60.42	2068.48	113.85	2026.60	0.00	52.62	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	5586.59	427.19	5159.40	336.72	5286.16	0.00	96.85	0.00	0.00	219.50
2024 Total (adj)	5586.59	427.19	5159.40	336.72	5286.16	0.00	96.85	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			
4/1/2025			No pump to creek			
5/1/2025			No pump to creek			
6/1/2025			No pump to creek			
7/1/2025			No pump to creek			
8/1/2025			No pump to creek			
9/1/2025			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

July 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
CN (pit)	100	area with direct interception
S (pit fringe)		area draining into pit
S (pit)		area with direct interception
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.	Runoff, in.	Runoff, in.	Evaporation, in.
1-Jul	0.00			0.22
2-Jul	0.01			0.18
3-Jul	0.16			0.16
4-Jul	0.10			0.24
5-Jul	0.00			0.2
6-Jul	0.00			0.2
7-Jul	0.00			0.22
8-Jul	0.00			0.3
9-Jul	0.00			0.28
10-Jul	0.00			0.3
11-Jul	0.00			0.35
12-Jul	0.39			0.15
13-Jul	0.57			0.17
14-Jul	0.00			0.21
15-Jul	0.24			0.26
16-Jul	0.00			0.27
17-Jul	0.00			0.3
18-Jul	0.00			0.32
19-Jul	0.00			0.36
20-Jul	0.00			0.36
21-Jul	0.00			0.36
22-Jul	0.00			0.39
23-Jul	0.00			0.37
24-Jul	0.00			0.4
25-Jul	0.00			0.35
26-Jul	0.00			0.32
27-Jul	0.00			0.29
28-Jul	0.00			0.33
29-Jul	0.00			0.3
30-Jul	0.00			0.28
31-Jul	0.00			0.31
sum				8.75

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

August 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
CN (pit)	100	area with direct interception
S (pit fringe)		area draining into pit
S (pit)		area with direct interception
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.	Runoff, in.	Runoff, in.	Evaporation, in.
1-Aug	0.55			0.16
2-Aug	0.06			0.16
3-Aug	0.06			0.15
4-Aug	0.45			0.23
5-Aug	0.00			0.25
6-Aug	0.00			0.33
7-Aug	0.00			0.35
8-Aug	0.00			0.39
9-Aug	0.00			0.4
10-Aug	0.00			0.36
11-Aug	0.00			0.28
12-Aug	0.02			0.2
13-Aug	0.00			0.19
14-Aug	0.01			0.28
15-Aug	0.00			0.37
16-Aug	0.00			0.34
17-Aug	0.08			0.23
18-Aug	0.00			0.3
19-Aug	0.02			0.26
20-Aug	0.00			0.24
21-Aug	0.00			0.22
22-Aug	0.00			0.24
23-Aug	0.00			0.28
24-Aug	0.00			0.28
25-Aug	0.26			0.15
26-Aug	1.07			0.05
27-Aug	0.27			0.13
28-Aug	0.11			0.14
29-Aug	0.00			0.08
30-Aug	0.00			0.11
31-Aug	0.47			0.12
sum				7.27

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet
Rainfall data

September 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
CN (pit)	100	area with direct interception
S (pit fringe)		area draining into pit
S (pit)		area with direct interception
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.	Runoff, in.	Runoff, in.	Evaporation, in.
1-Sep	0.01			0.4
2-Sep	0.01			0.27
3-Sep	0.01			0.3
4-Sep	0.00			0.25
5-Sep	0.00			0.29
6-Sep	0.01			0.28
7-Sep	0.00			0.28
8-Sep	0.00			0.33
9-Sep	0.00			0.28
10-Sep	0.00			0.22
11-Sep	0.00			0.15
12-Sep	0.00			0.25
13-Sep	0.00			0.35
14-Sep	0.00			0.37
15-Sep	0.00			0.35
16-Sep	0.00			0.35
17-Sep	0.00			0.31
18-Sep	0.00			0.3
19-Sep	0.00			0.3
20-Sep	0.00			0.3
21-Sep	0.00			0.32
22-Sep	0.03			0.37
23-Sep	0.03			0.47
24-Sep	0.01			0.38
25-Sep	0.00			0.31
26-Sep	0.00			0.23
27-Sep	0.01			0.21
28-Sep	0.00			0.26
29-Sep	0.00			0.27
30-Sep	0.00			0.17
31-Sep	0.00			0.2
sum				

Volume, ac-ft
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet
Rainfall data

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	545.90	134.04		41.82	504.08	0.00	1.39	3.31	3.73	0.00	0.00	0.00	0.00
May-25	768.18	90.62		35.89	732.29	0.00	1.39	3.51	2.35	0.00	0.00	0.00	0.00
June-25	699.12	98.68		44.79	654.32	0.00	1.67	4.34	3.91	0.00	0.00	0.00	0.00
July-25	701.27	22.25		41.83	659.44	0.00	1.96	3.63	10.77	0.00	0.00	0.00	0.00
August-25	685.83	36.87		35.74	650.10	0.00	1.63	3.25	13.44	0.00	0.00	0.00	0.00
September-25	741.79	1.29		36.29	705.50	0.00	2.04	3.56	12.34	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 Splitting Cell						Total	Total
	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			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		0.00	0.08		50	350		24.00	0.22		200	435		24.00	0.03			
May-25	50	330		26.00	0.08		50	350		0.00	0.22		200	435		26.00	0.03			
June-25	50	330		0.00	0.08		50	350		26.00	0.22		200	435		26.00	0.03			
July-25	50	330		24.00	0.08		50	350		0.00	0.22		200	435		24.00	0.03			
August-25	50	330		0.00	0.08		50	350		25.00	0.22		200	435		25.00	0.03			
September-25	50	330		25.00	0.08		50	350		0.00	0.22		200	435		25.00	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			

July Shipments			August Shipments			September Shipments		
	Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped
Base Products Coarse	494		Base Products Coarse	461		Base Products Coarse	935	
Aggregates Fine	271,496		Aggregates Fine	190,448		Aggregates Fine	242,833	
Aggregates	11,189		Aggregates	29,765		Aggregates	19,355	