

4th Quarter Report 2014 & Annual Report 2014
Vulcan Materials Company - North Troy Quarry
Mill Creek, Oklahoma

VMC North Troy 2014 Monitoring Report

All volumes are in acre-feet.

	Total Groundwater Entering Pit	Total Stormwater Entering Pit	Total Pit Stormwater Diverted	Total Pit Water Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-14	175.70	1.98	1.98	174.21	26.91	151.66	0.00	3.80	0.00	0.09	594.72
February-14	147.76	1.21	1.21	148.70	0.00	154.41	0.00	3.96	0.00	0.00	594.72
March-14	203.20	3.05	3.05	198.27	0.00	204.25	0.00	7.17	0.00	0.07	594.72
1st QTR Totals	526.66	6.24	6.24	521.18	26.91	510.32	0.00	14.92	0.00	0.16	N/A
April-14	182.17	8.00	8.00	180.05	49.37	138.68	0.00	7.84	0.00	0.00	594.72
May-14	161.61	9.88	9.88	172.87	23.14	159.61	0.00	8.69	0.00	0.00	594.72
June-14	156.78	51.30	51.30	149.62	0.00	200.92	0.00	7.78	0.00	0.17	594.72
2nd QTR Totals	500.56	69.18	69.18	502.54	72.51	499.21	0.00	24.32	0.00	0.17	N/A
July-14	167.11	16.71	16.71	164.91	24.86	156.76	0.00	8.58	0.00	0.00	594.72
August-14	149.03	2.34	2.34	148.10	0.00	150.44	0.00	8.46	0.00	0.00	594.72
September-14	124.34	5.57	5.57	126.48	28.57	103.48	0.00	8.13	0.00	0.86	594.72
3rd QTR Totals	440.48	24.62	24.62	439.49	53.43	410.68	0.00	25.16	0.00	0.86	N/A
October-14	85.05	77.88	77.88	82.71	22.40	138.19	0.00	6.95	0.00	0.00	594.72
November-14	169.81	7.01	7.01	160.86	0.00	167.87	0.00	2.90	0.00	0.00	594.72
December-14	175.32	5.21	5.21	187.45	34.06	158.60	0.00	2.99	0.00	1.32	594.72
4th QTR Totals	430.18	90.10	90.10	431.02	56.46	464.66	0.00	12.84	0.00	1.32	N/A
2014 Totals	1897.88	190.14	190.14	1894.23	209.31	1884.87	0.00	77.25	0.00	2.51	594.72

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Pit Sump Volumes

	West Sump				905 Sump				New Freshwater Pond				Total Evaporation, ac-ft		
	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft		Length, Ft	Pond Volume Change, Ac-ft
January-14	17.634	125	325	1.49	0.20	4	50	50	0.00	0.01	3	475	750	0.00	1.76
February-14	16.64	125	325	-0.94	0.15	4	50	50	0.00	0.01	3	475	750	0.00	1.59
March-14	13.352	125	325	4.93	0.32	4	50	50	0.00	0.02	3	475	750	0.00	2.79
April-14	11.085	125	325	2.11	0.43	4	50	50	0.00	0.03	3	475	750	0.00	3.81
May-14	23.158	125	325	-11.26	0.45	4	50	50	0.00	0.03	4,311	475	750	-10.72	3.94
June-14	15.481	125	325	7.16	0.45	4	50	50	0.00	0.03	5,682	475	750	-11.21	3.99
July-14	13.118	125	325	2.20	0.45	4	50	50	0.00	0.03	4,516	475	750	9.54	3.98
August-14	12.126	125	325	0.93	0.63	4	50	50	0.00	0.04	6,865	475	750	-19.21	5.95
September-14	14.416	125	325	-2.14	0.52	4	50	50	0.00	0.03	6,097	475	750	6.28	4.57
October-14	11.908	125	325	2.34	0.45	4	50	50	0.00	0.03	5,543	475	750	4.53	3.92
November-14	2.31	125	325	8.95	0.02	4	50	50	0.00	0.00	8,147	475	750	-21.30	0.18
December-14	15.316	125	325	-12.13	0.01	4	50	50	0.00	0.00	5,95	475	750	17.97	0.05

Settling Cell Evaporation and Infiltration

Summary Data for 2014 Season (Rainfall 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	Length, Ft	Evaporation, ac-ft	Total Infiltration, ac-ft
January-14	50	330	0.08	22.00	0.08	1.80	50	350	0.00	0.00	0.22	0.00	0.43	0.43	0.58
February-14	50	330	0.00	0.00	0.08	0.08	50	350	0.00	18.00	0.22	4.01	0.30	0.30	0.48
March-14	50	330	0.13	27.00	0.08	2.21	50	350	0.00	0.00	0.22	0.00	0.68	0.68	0.72
April-14	50	330	0.00	0.00	0.08	0.08	50	350	0.19	23.00	0.22	5.13	0.83	0.83	0.61
May-14	50	330	0.18	25.00	0.08	2.05	50	350	0.00	0.00	0.22	0.00	0.96	0.96	0.67
June-14	50	330	0.00	0.00	0.08	0.08	50	350	0.20	25.00	0.22	5.57	0.97	0.97	0.71
July-14	50	330	0.18	25.00	0.08	2.05	50	350	0.00	0.00	0.22	0.00	0.97	0.97	0.67
August-14	50	330	0.00	0.00	0.08	0.08	50	350	0.29	22.00	0.22	4.90	1.45	1.45	0.71
September-14	50	330	0.21	22.00	0.08	1.80	50	350	0.00	0.00	0.22	0.00	1.12	1.12	0.59
October-14	50	330	0.00	0.00	0.08	0.08	50	350	0.19	24.00	0.22	5.35	0.96	0.96	0.64
November-14	50	330	0.01	19.00	0.08	1.56	50	350	0.00	0.00	0.22	0.00	0.96	0.96	0.51
December-14	50	330	0.00	0.00	0.08	0.08	50	350	0.00	21.00	0.22	4.68	0.01	0.01	0.01

