

October 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)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	53.91	subject to refinement
Pit fringe (area drains to pit)	122.04	subject to refinement
Drainage to Pit (total area)	175.95	subject to refinement

		Quarry area	Fringe area	Daily	
Date	Precip, in.	Runoff, in.	Runoff, in.	Evaporation, in.	
1-Oct	0.00	0.00	0.00	0.31	Runoff formula
2-Oct	0.03	0.03	0.00	0.23	Pe = (P-0.2S)^2/(P+0.8S)
3-Oct	0.00	0.00	0.00	0.17	S = (1000/CN)-10
4-Oct	0.00	0.00	0.00	0.19	
5-Oct	0.00	0.00	0.00	0.17	Blue cells contain formulas
6-Oct	0.18	0.18	0.00	0.19	
7-Oct	0.00	0.00	0.00	0.25	
8-Oct	4.66	4.66	3.35	0.21	
9-Oct	0.00	0.00	0.00	0.24	
10-Oct	1.75	1.75	0.77	0.21	
11-Oct	0.14	0.14	0.00	0.05	
12-Oct	0.00	0.00	0.00	0.16	
13-Oct	1.26	1.26	0.00	0.1	
14-Oct	0.00	0.00	0.00	0.22	
15-Oct	0.00	0.00	0.00	0.13	
16-Oct	0.00	0.00	0.00	0.23	
17-Oct	0.00	0.00	0.00	0.2	
18-Oct	0.00	0.00	0.00	0.18	
19-Oct	0.00	0.00	0.00	0.15	
20-Oct	0.00	0.00	0.00	0.14	
21-Oct	0.00	0.00	0.00	0.13	
22-Oct	0.00	0.00	0.00	0.13	
23-Oct	0.00	0.00	0.00	0.17	
24-Oct	0.00	0.00	0.00	0.17	
25-Oct	0.00	0.00	0.00	0.19	
26-Oct	0.00	0.00	0.00	0.28	
27-Oct	0.00	0.00	0.00	0.25	
28-Oct	0.00	0.00	0.00	0.25	
29-Oct	0.00	0.00	0.00	0.14	
30-Oct	0.00	0.00	0.00	0.16	
31-Oct	0.00	0.00	0.00	0.15	
sum	8.02	8.02	4.12	5.75	
Volume, ac-ft		36.03	41.85		
Total Vol, ac-ft		77.88			

November 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)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	53.91	subject to refinement
Pit fringe (area drains to pit)	122.04	subject to refinement
Drainage to Pit (total area)	175.95	subject to refinement

	Quarry area	Fringe area	Daily
--	-------------	-------------	-------

Date Precip, in. Runoff, in. Runoff, in. Evaporation, in.

1-Nov	0.00	0.00	0.00	0.009
2-Nov	0.00	0.00	0.00	0.008
3-Nov	0.00	0.00	0.00	0.005
4-Nov	0.01	0.01	0.00	0.012
5-Nov	0.01	0.01	0.00	0.0044
6-Nov	0.00	0.00	0.00	0.011
7-Nov	0.00	0.00	0.00	0.01
8-Nov	0.00	0.00	0.00	0.011
9-Nov	0.00	0.00	0.00	0.0105
10-Nov	0.00	0.00	0.00	0.0125
11-Nov	0.00	0.00	0.00	0.007
12-Nov	0.00	0.00	0.00	0.004
13-Nov	0.00	0.00	0.00	0.005
14-Nov	0.09	0.09	0.00	0.00471
15-Nov	0.13	0.13	0.00	0.0045
16-Nov	0.00	0.00	0.00	0.0158
17-Nov	0.00	0.00	0.00	0.006
18-Nov	0.00	0.00	0.00	0.072
19-Nov	0.00	0.00	0.00	0.007
20-Nov	0.33	0.33	0.00	0.0066
21-Nov	0.00	0.00	0.00	0.005
22-Nov	0.51	0.51	0.00	0.0058
23-Nov	0.28	0.28	0.00	0.0016
24-Nov	0.06	0.06	0.00	0.001
25-Nov	0.04	0.04	0.00	0.005
26-Nov	0.03	0.03	0.00	0.001
27-Nov	0.02	0.02	0.00	0.003
28-Nov	0.02	0.02	0.00	0.005
29-Nov	0.02	0.02	0.00	0.0065
30-Nov	0.01	0.01	0.00	0.005125
		0.00	0.00	
sum	1.56	1.56	0.00	0.27

Runoff formula
 $Pe = (P - 0.2S)^2 / (P + 0.8S)$
 $S = (1000/CN) - 10$

Blue cells contain formulas

Volume, ac-ft 7.01 0.00
Total Vol, ac-ft 7.01

December 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)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	53.91	subject to refinement
Pit fringe (area drains to pit)	122.04	subject to refinement
Drainage to Pit (total area)	175.95	subject to refinement

		Quarry area	Fringe area	Daily	
Date	Precip, in.	Runoff, in.	Runoff, in.	Evaporation, in.	
1-Dec	0.00	0.00	0.00	0.002	Runoff formula
2-Dec	0.05	0.05	0.00	0.002	Pe = (P-0.2S)^2/(P+0.8S)
3-Dec	0.05	0.05	0.00	0.001	S = (1000/CN)-10
4-Dec	0.02	0.02	0.00	0.00187	
5-Dec	0.01	0.01	0.00	0.001	
6-Dec	0.00	0.00	0.00	0.002	
7-Dec	0.00	0.00	0.00	0.001	
8-Dec	0.00	0.00	0.00	0.004	
9-Dec	0.01	0.01	0.00	0.005	
10-Dec	0.00	0.00	0.00	0.003	
11-Dec	0.01	0.01	0.00	0.0016	
12-Dec	0.02	0.02	0.00	0.001	
13-Dec	0.01	0.01	0.00	0.002	
14-Dec	0.15	0.15	0.00	0.001	
15-Dec	0.11	0.11	0.00	0.004	
16-Dec	0.02	0.02	0.00	0.003	
17-Dec	0.05	0.05	0.00	0.001	
18-Dec	0.16	0.16	0.00	0.001	
19-Dec	0.17	0.17	0.00	0.001	
20-Dec	0.08	0.08	0.00	0.001	
21-Dec	0.03	0.03	0.00	0.001	
22-Dec	0.02	0.02	0.00	0.001	
23-Dec	0.00	0.00	0.00	0.003	
24-Dec	0.00	0.00	0.00	0.003	
25-Dec	0.00	0.00	0.00	0.003	
26-Dec	0.03	0.03	0.00	0.006	
27-Dec	0.15	0.15	0.00	0.001	
28-Dec	0.01	0.01	0.00	0.001	
29-Dec	0.00	0.00	0.00	0.002	
30-Dec	0.00	0.00	0.00	0.004	
31-Dec	0.00	0.00	0.00	0.003	
sum	1.16	1.16	0.00	0.07	

Blue cells contain formulas

Volume, ac-ft 5.21 0.00
Total Vol, ac-ft 5.21

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

October Shipments			November Shipments			December Shipments		
	Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped
Base Products	318	0.008	Base Products	1,144	0.028	Base Products	1,703	0.042
Coarse Aggregates	103,812	1.248	Coarse Aggregates	157,319	1.891	Coarse Aggregates	188,971	2.271
Fine Aggregates	9,690	0.308	Fine Aggregates	10,628	0.338	Fine Aggregates	9,315	0.296
	113,820	1.563		169,090	2.256		199,989	2.609