



Jesse Martindale
Lead Environmental Engineer

RECEIVED

March 26, 2025

3/26/2026

OKLAHOMA WATER RESOURCES BOARD

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

Re: Martin Marietta Davis Quarry 2025 Q4 and Annual Report

Dear Mr. Tutkowski:

Attached please find the Q4 and Annual 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,

A handwritten signature in cursive script that reads 'Jesse Martindale'.

Jesse Martindale
Lead Environmental Engineer

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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
July-25	-7.96	15.34	15.34	7.37	N/A	-7.96	0.00	5.88	0.00	0.00
August-25	-10.43	27.19	27.19	16.76	N/A	-10.43	0.00	5.77	0.00	0.00
September-25	-9.35	6.54	6.54	-2.81	N/A	-9.35	0.00	5.43	0.00	0.00
3rd QTR Totals	-27.74	49.06	49.06	21.32	0.00	-27.74	0.00	17.08	0.00	0.00
October-25	-12.46	6.66	6.66	-5.80	N/A	-12.46	0.00	5.53	0.00	0.00
November-25	-9.07	7.52	7.52	-1.56	N/A	-9.07	0.00	2.53	0.00	0.00
December-25	-2.13	0.24	0.24	-1.88	N/A	-2.13	0.00	2.28	0.00	0.00
4th QTR Totals	-23.66	14.42	14.42	-9.24	0.00	-23.66	0.00	10.34	0.00	0.00
2025 Totals	-159.12	219.13	219.13	60.01	0.00	-159.12	0.00	61.70	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

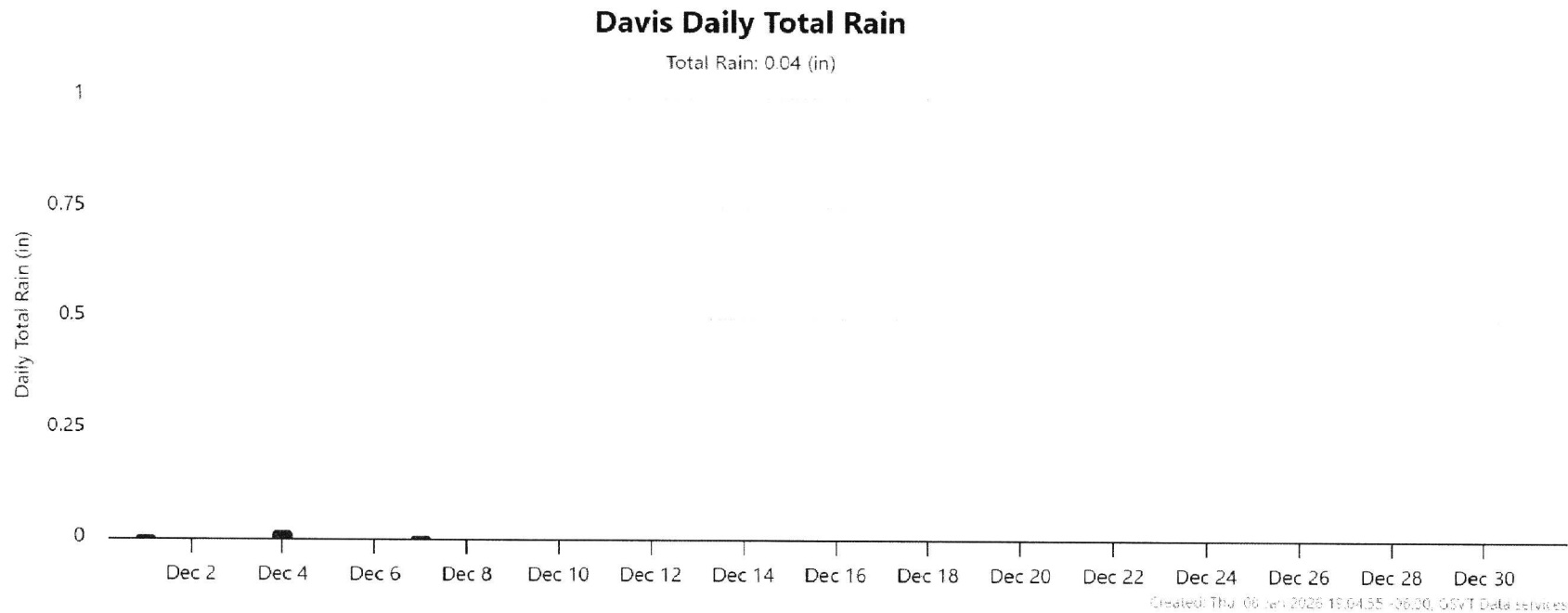
	January	February	March	April	May	June	July	August	September	October	November	December
Water Truck Usage	0.41	1.05	3.20	1.80	2.10	1.88	2.13	2.40	1.71	1.82	0.14	-
Moisture Content of Product Shipped	2.34	2.00	3.27	2.70	3.71	3.32	3.75	3.37	3.72	3.70	2.39	2.28
Misc on site use	-	-	-	-	-	-	-	-	-	-	-	-
Misc off site	6.51	-	-	-	-	-	-	-	-	-	-	-
Total	9.26	3.05	6.47	4.50	5.81	5.20	5.88	5.77	5.43	5.53	2.53	2.28

	January	February	March	April	May	June	July	August	September	October	November	December
Shipped Tons												
Base	25,341	15,622	25,348	24,638	38,290	23,915	21,183	17,618	18,572	22,281	8,742	7,582
Coarse Aggregate	73,068	72,679	107,260	86,455	108,235	103,841	138,686	113,609	122,612	98,808	67,146	82,195
Fine Aggregate	18,396	15,983	31,086	23,946	33,978	35,083	35,062	37,031	42,794	49,603	34,761	26,229
Total	116,805	104,283	163,693	135,038	180,503	162,839	194,931	168,257	183,978	170,693	110,649	116,006
Moisture Shipped	2.34	2.00	3.27	2.70	3.71	3.32	3.75	3.37	3.72	3.70	2.39	2.28

Davis Water Balance

	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Monitoring Period, Days		31	28	31	30	31	30	31	31	30	31	30	31
Monthly Production, tons	133,509	100,201	91,974	154,591	141,792	137,433	142,841	160,811	132,834	154,534	108,184	142,613	138,139
Product Moisture Content		3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%
Water Truck Loads		15	38	116	65	76	68	77	87	62	66	5	0
Month End Water Elevs.													
1) Freshwater pond, depth to water	19.37432	20.74881	17.84724	14.8811245	23.704851	22.93614	19.66877	14.76989	16.455818	15.252364	14.568423	14.25842	14.013254
2) Pit Sump, depth to water	60.67374	58.43507	58.42458	59.433167	61.564064	58.338318	60.4331	60.61406	61.50095	59.67578	57.47792	56.22776	55.021568
Pond Surface Acres													
1) Freshwater pond		1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
2) Pit Sump		5.79	5.79	5.79	5.79	5.79	5.79	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	6.794314	6.7943135	6.7943135	6.79431354	6.794314	6.79431354
Pond Water Volume Change													
1) Freshwater pond		1.374	-2.902	-2.966	9.353	-0.815	-3.463	-4.899	1.686	-1.203	-0.684	-0.310	-0.245
2) Pit Sump		-12.972	-0.061	5.844	12.347	-18.691	12.138	1.049	5.139	-10.576	-12.735	-7.244	-6.989
3) Change in settling pond storage		0.000	0.000	0.000	0.000	0.000	0.000	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	-3.850	6.825	-11.779	-13.419	-7.554	-7.234
Water Inputs, ac-ft													
Rural Water		0.000	0.037	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lake Water		0.000	0.000	0.000	0.000	0.000	0.000	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	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	15.336	27.190	6.538	6.660	7.515	0.244
Total Water Input		3.558	1.535	13.762	59.225	30.401	47.225	15.336	27.190	6.538	6.660	7.515	0.244
Water Usage, ac-ft													
Product moisture content		2.580	2.369	3.981	3.652	3.539	3.679	4.141	3.421	3.980	2.786	3.673	3.557
Haul road dust control		0.414	1.050	3.204	1.795	2.099	1.878	2.127	2.403	1.712	1.823	0.138	0.000
Evaporation losses		0.866	0.834	4.371	0.849	0.879	4.261	4.954	4.116	3.273	3.006	2.186	1.795
Misc usage		6.51	-	-	-	-	-	-	-	-	-	-	-
Total Water Usage, Ac-ft		10.368	4.252	11.556	6.296	6.517	9.818	11.222	9.940	8.965	7.615	5.996	5.352
Net Water Input		-6.810	-2.717	2.206	52.929	23.883	37.408	4.114	17.250	-2.427	-0.955	1.519	-6.108
emergency storage of precipitation and runoff, ac-ft													
Groundwater Inflow		-4.787	-0.245	0.672	-31.229	-43.389	-28.733	-7.965	-10.425	-9.352	-12.464	-9.073	-2.126
Groundwater Inflow, Avg Ac-ft/Day		-0.154	-0.009	0.022	-1.041	-1.400	-0.958	-0.257	-0.336	-0.312	-0.402	-0.302	-0.069
Groundwater Inflow, Avg Gallons/Day		-50,321	-2,854	7,067	-339,201	-456,079	-312,092	-83,718	-109,583	-101,581	-131,009	-98,548	-22,350

MARTIN MARIETTA DAVIS WEATHER – DAILY TOTAL RAIN

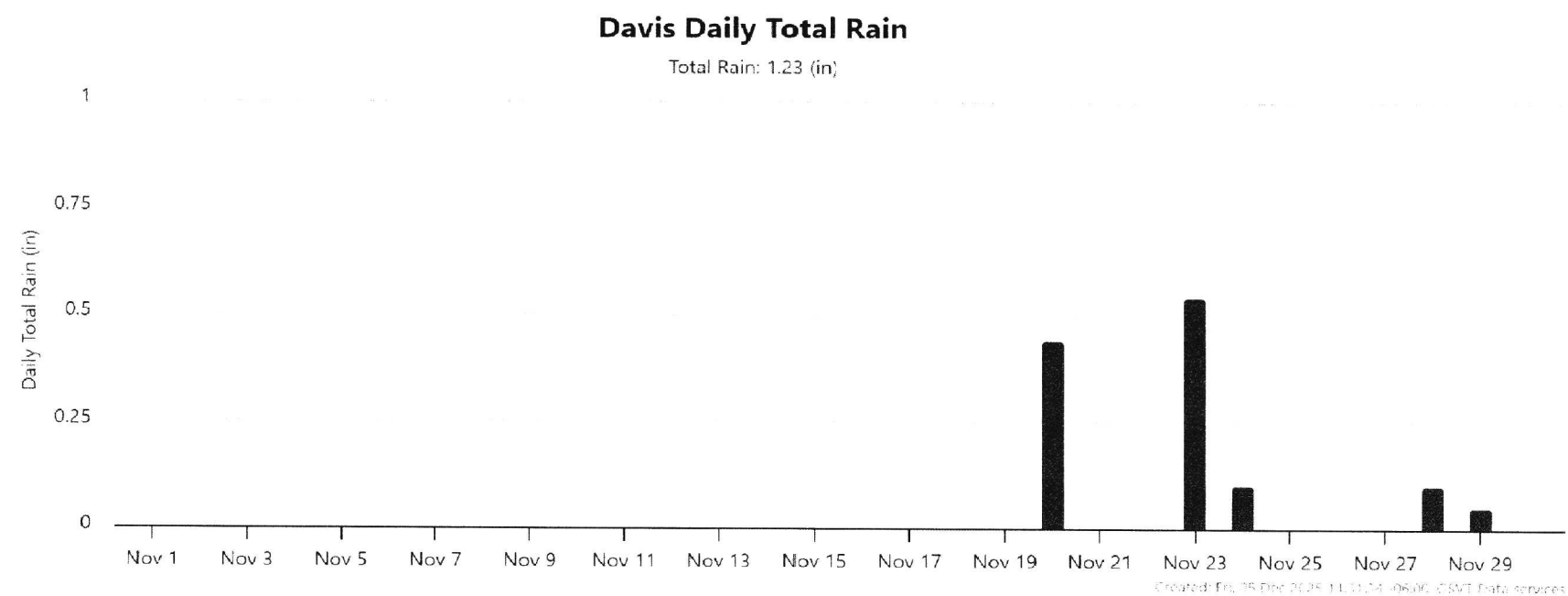


Date	Daily Total Rain (in)
12/1/2025	0.01
12/2/2025	0
12/3/2025	0
12/4/2025	0.02
12/5/2025	0
12/6/2025	0
12/7/2025	0.01
12/8/2025	0
12/9/2025	0
12/10/2025	0

12/11/2025	0
12/12/2025	0
12/13/2025	0
12/14/2025	0
12/15/2025	0
12/16/2025	0
12/17/2025	0
12/18/2025	0
12/19/2025	0
12/20/2025	0
12/21/2025	0

12/22/2025	0
12/23/2025	0
12/24/2025	0
12/25/2025	0
12/26/2025	0
12/27/2025	0
12/28/2025	0
12/29/2025	0
12/30/2025	0
12/31/2025	0

MARTIN MARIETTA DAVIS WEATHER – DAILY TOTAL RAIN

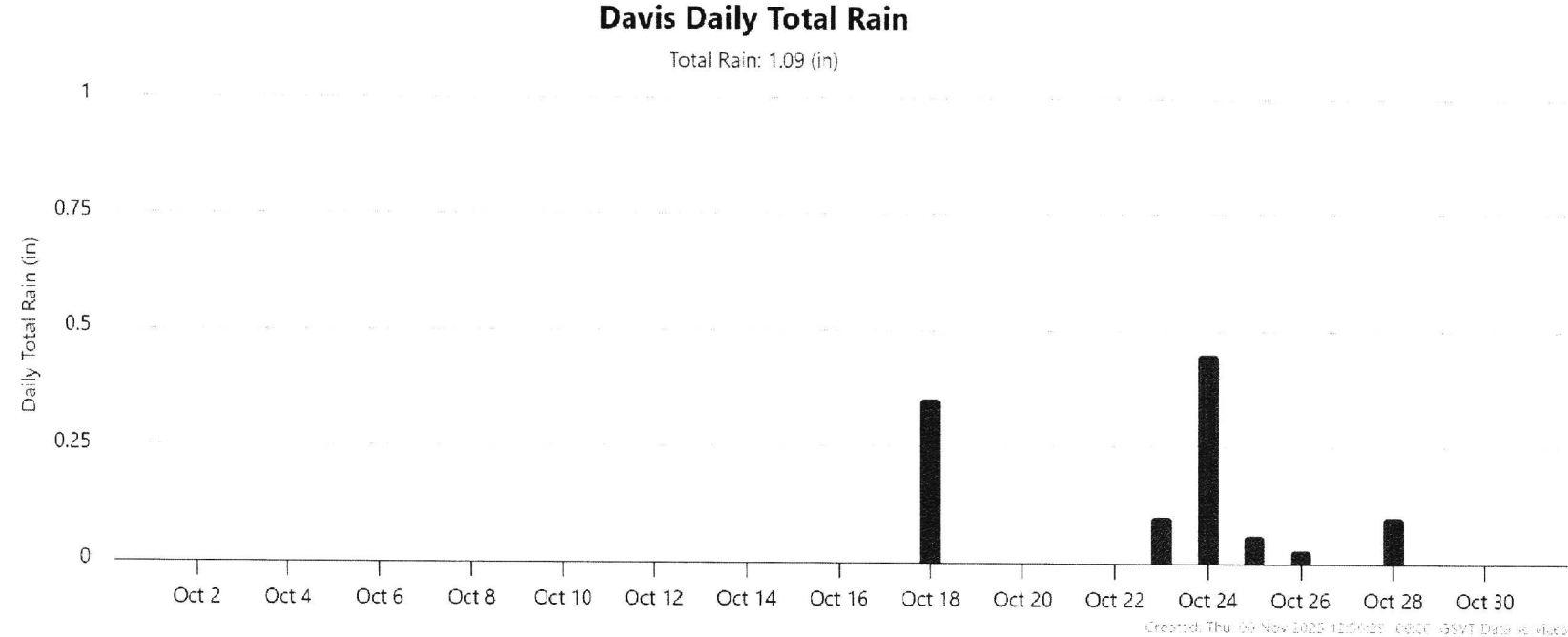


Date	Daily Total Rain (in)
11/1/2025	0
11/2/2025	0
11/3/2025	0
11/4/2025	0
11/5/2025	0
11/6/2025	0
11/7/2025	0
11/8/2025	0
11/9/2025	0
11/10/2025	0

11/11/2025	0
11/12/2025	0
11/13/2025	0
11/14/2025	0
11/15/2025	0
11/16/2025	0
11/17/2025	0
11/18/2025	0
11/19/2025	0
11/20/2025	0.44
11/21/2025	0

11/22/2025	0
11/23/2025	0.54
11/24/2025	0.1
11/25/2025	0
11/26/2025	0
11/27/2025	0
11/28/2025	0.1
11/29/2025	0.05
11/30/2025	0

MARTIN MARIETTA DAVIS WEATHER – DAILY TOTAL RAIN



Date	Daily Total Rain (in)
10/1/2025	0
10/2/2025	0
10/3/2025	0
10/4/2025	0
10/5/2025	0
10/6/2025	0
10/7/2025	0
10/8/2025	0
10/9/2025	0
10/10/2025	0

10/11/2025	0
10/12/2025	0
10/13/2025	0
10/14/2025	0
10/15/2025	0
10/16/2025	0
10/17/2025	0
10/18/2025	0.35
10/19/2025	0
10/20/2025	0
10/21/2025	0

10/22/2025	0
10/23/2025	0.1
10/24/2025	0.45
10/25/2025	0.06
10/26/2025	0.03
10/27/2025	0
10/28/2025	0.1
10/29/2025	0
10/30/2025	0
10/31/2025	0

October 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)	91.38	subject to refinement
Drainage to Pit (total area)	164.70	subject to refinement

Quarry area Fringe area

Date	Precip, in.	Runoff, in.	Runoff, in.	Evapor, in/day
1-Oct	0.00	0.00	0.00	0.17
2-Oct	0.00	0.00	0.00	0.19
3-Oct	0.00	0.00	0.00	0.20
4-Oct	0.00	0.00	0.00	0.29
5-Oct	0.00	0.00	0.00	0.24
6-Oct	0.00	0.00	0.00	0.17
7-Oct	0.00	0.00	0.00	0.15
8-Oct	0.00	0.00	0.00	0.17
9-Oct	0.00	0.00	0.00	0.18
10-Oct	0.00	0.00	0.00	0.17
11-Oct	0.00	0.00	0.00	0.17
12-Oct	0.00	0.00	0.00	0.25
13-Oct	0.00	0.00	0.00	0.21
14-Oct	0.00	0.00	0.00	0.17
15-Oct	0.00	0.00	0.00	0.18
16-Oct	0.00	0.00	0.00	0.20
17-Oct	0.00	0.00	0.00	0.25
18-Oct	0.35	0.35	0.00	0.14
19-Oct	0.00	0.00	0.00	0.18
20-Oct	0.00	0.00	0.00	0.32
21-Oct	0.00	0.00	0.00	0.22
22-Oct	0.00	0.00	0.00	0.16
23-Oct	0.10	0.10	0.00	0.19
24-Oct	0.45	0.45	0.00	0.11
25-Oct	0.06	0.06	0.00	0.07
26-Oct	0.03	0.03	0.00	0.06
27-Oct	0.00	0.00	0.00	0.09
28-Oct	0.10	0.10	0.00	0.07
29-Oct	0.00	0.00	0.00	0.17
30-Oct	0.00	0.00	0.00	0.08
31-Oct	0.00	0.00	0.00	0.09
		1.09	0.00	
Volume, ac-ft		6.66	0.00	5.31
Total Vol, ac-ft		6.66		

November 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)	91.38	subject to refinement
Drainage to Pit (total area)	164.70	subject to refinement

		Quarry area	Fringe area	Evapor, in/day
Date	Precip, in.	Runoff, in.	Runoff, in.	
1-Nov	0.00	0.00	0.00	0.11
2-Nov	0.00	0.00	0.00	0.12
3-Nov	0.00	0.00	0.00	0.21
4-Nov	0.00	0.00	0.00	0.20
5-Nov	0.00	0.00	0.00	0.16
6-Nov	0.00	0.00	0.00	0.15
7-Nov	0.00	0.00	0.00	0.15
8-Nov	0.00	0.00	0.00	0.19
9-Nov	0.00	0.00	0.00	0.16
10-Nov	0.00	0.00	0.00	0.07
11-Nov	0.00	0.00	0.00	0.27
12-Nov	0.00	0.00	0.00	0.13
13-Nov	0.00	0.00	0.00	0.15
14-Nov	0.00	0.00	0.00	0.18
15-Nov	0.00	0.00	0.00	0.22
16-Nov	0.00	0.00	0.00	0.13
17-Nov	0.00	0.00	0.00	0.19
18-Nov	0.00	0.00	0.00	0.16
19-Nov	0.00	0.00	0.00	0.12
20-Nov	0.44	0.44	0.00	0.04
21-Nov	0.00	0.00	0.00	0.13
22-Nov	0.00	0.00	0.00	0.05
23-Nov	0.54	0.54	0.00	0.06
24-Nov	0.10	0.10	0.00	0.03
25-Nov	0.00	0.00	0.00	0.09
26-Nov	0.00	0.00	0.00	0.11
27-Nov	0.00	0.00	0.00	0.07
28-Nov	0.10	0.10	0.00	0.08
29-Nov	0.05	0.05	0.00	0.06
30-Nov	0.00	0.00	0.00	0.07
		0.00	0.00	
		1.23	0.00	
Volume, ac-ft		7.52	0.00	3.86
Total Vol, ac-ft		7.52		

December 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)	91.38	subject to refinement
Drainage to Pit (total area)	164.70	subject to refinement

Quarry areaFringe area

Date	Precip, in	Runoff, in	Runoff, in	Evapor, in/day
1-Dec	0.01	0.01	0.00	0.02
2-Dec	0.00	0.00	0.00	0.06
3-Dec	0.00	0.00	0.00	0.10
4-Dec	0.02	0.02	0.00	0.03
5-Dec	0.00	0.00	0.00	0.05
6-Dec	0.00	0.00	0.00	0.02
7-Dec	0.01	0.01	0.00	0.03
8-Dec	0.00	0.00	0.00	0.06
9-Dec	0.00	0.00	0.00	0.13
10-Dec	0.00	0.00	0.00	0.13
11-Dec	0.00	0.00	0.00	0.15
12-Dec	0.00	0.00	0.00	0.12
13-Dec	0.00	0.00	0.00	0.10
14-Dec	0.00	0.00	0.00	0.07
15-Dec	0.00	0.00	0.00	0.09
16-Dec	0.00	0.00	0.00	0.14
17-Dec	0.00	0.00	0.00	0.04
18-Dec	0.00	0.00	0.00	0.14
19-Dec	0.00	0.00	0.00	0.14
20-Dec	0.00	0.00	0.00	0.25
21-Dec	0.00	0.00	0.00	0.11
22-Dec	0.00	0.00	0.00	0.15
23-Dec	0.00	0.00	0.00	0.12
24-Dec	0.00	0.00	0.00	0.12
25-Dec	0.00	0.00	0.00	0.13
26-Dec	0.00	0.00	0.00	0.11
27-Dec	0.00	0.00	0.00	0.14
28-Dec	0.00	0.00	0.00	0.19
29-Dec	0.00	0.00	0.00	0.08
30-Dec	0.00	0.00	0.00	0.08
31-Dec	0.00	0.00	0.00	0.07
		0.04	0.00	
Volume, ac-ft		0.24	0.00	3.17
Total Vol, ac-ft		0.24		