



Jesse Martindale
Sr. Environmental Engineer

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MAR 18 2025

OKLAHOMA WATER RESOURCES BOARD

March 18, 2024

Oklahoma Water Resources Board
3800 N. Classen Boulevard
Oklahoma City, OK 73118
Attn: Mr. Jason Tutkowski

Re: Martin Marietta Mill Creek Limestone Quarry Monitoring Report Q4 and Annual 2024

Dear Mr. Tutkowski:

Attached please find the Q4 2024 Quarterly Monitoring Report and Annual Report for Martin Marietta's Mill Creek Limestone quarry. The report is summarized on the table labeled Appendix C. Supporting data is also included.

MEPS for this facility is 128 acre-feet of groundwater per calendar year per permit 2000-533.

Please call if you have any questions or comments.

Sincerely,

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

Jesse Martindale
Sr. Environmental Engineer

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ATTACHMENT 1 (Appendix C)
Martin Marietta Mill Creek Limestone 2024

Appendix C . Consumptive use of Pitwater

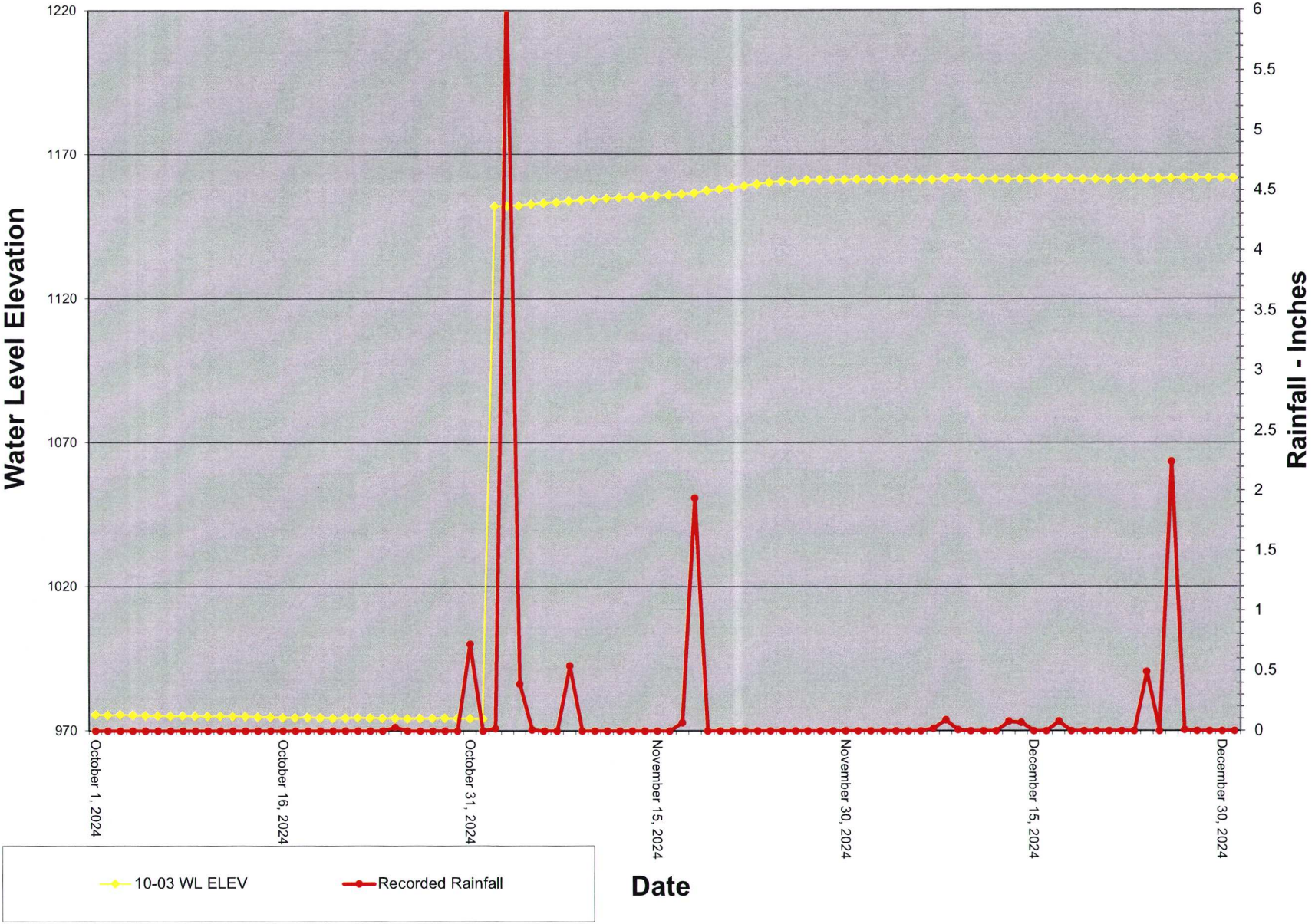
Q1 2024 Q2 2024 Q3 2024 Q4 2024 2024 Totals

PIT GROUNDWATER VOLUME						
1	Total volume pumped from producing mine pit(s) (AC-FT)	346.5	585.9	363.4	547.5	1843.2
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)	0.0	0.2	0.1	0.1	0.4
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)	44.8	423.4	102.6	261.4	832.2
4	(WATER HELD IN PIT FROM PREVIOUS MONTHS) other non pit waters pumped from the producing mining pit (AC-FT)	0.1	-310.4	531.1	-29.8	191.1
5	add lines 2 through 4	45.0	113.2	633.8	231.7	1023.7
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)	301.5	472.7	-270.5	315.8	819.5
DEFINED ELEMENTS OF CONSUMPTIVE USE						
7	Vol. of pit groundwater that is driven off (by drying) the mined material transp. off of the mine site (AC-FT)	0.00	0.00	0.00	0.00	0.0
8	Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)	2.52	-1.14	1.63	2.57	5.6
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	0.00	0.00	0.00	0.00	0.0
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)	5.49	3.04	10.75	5.10	24.4
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)	8.01	1.91	12.38	7.67	30.0
PIT GROUNDWATER BALANCE						
12	Lines 6 minus 11	293.50	470.77	-282.87	308.10	789.5
13	Groundwater Augmentation Volume of pit water returned to GW Basin or subbasin. (Troy Recharge AC-FT)	449.69	1147.60	-1579.93	24.36	41.7
14	Stream Augmentation volume of pit water discharged to a definite Stream, during flow conditions that are less than or equal to the accepted exceedance level (AC-FT)	0.00	0.00	160.53	0.00	160.5
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	19.62	120.54	31.96	72.33	244.5
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)	246.82	197.00	222.85	237.36	904.0
17	Other Non-Consumptive GW Losses Including pit GW returned to the land surface from which surface runoff flows into a mine pit and other losses (AC-FT)	9.28	-50.08	5.36	47.47	12.0
18	add lines 13 through 17	725.42	1415.07	-1159.22	381.52	1362.8
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18	-431.91	-944.30	876.35	-73.42	-573.3
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)						
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-423.90	-942.39	888.73	-65.74	-543.31

RESULTS FROM RUNOFF MODELLING

2024		Quarry Monthly Totals				FW Pond Monthly Totals		Re-cycle Recharge (Troy) Monthly Totals		MM-Mill Creek Limestone Totals	
	PPT.	Sump Direct ppt	In-Quarry Runoff	Runoff from beyond Quarry	Quarry Totals	Direct ppt	Runoff	Direct ppt	Runoff	Direct ppt	Runoff
	Inches	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
January	0.36	0.015	10.085	0.988	11.09	2.67	0.14	5.39	0.47	8.07	11.68
February	0.89	0.010	7.240	0.616	7.87	1.78	0.01	3.59	0.26	5.38	8.12
March	2.71	0.023	22.043	3.845	25.91	3.95	1.45	7.98	1.93	11.95	29.27
Q1 Subtotal	3.96	0.05	39.37	5.45	44.86	8.39	1.60	16.97	2.66	25.41	49.08
April	11.88	0.099	195.658	67.062	262.82	17.30	98.31	35.00	39.95	52.40	400.98
May	6.49	0.054	78.271	19.391	97.72	9.45	16.51	19.12	10.60	28.63	124.77
June	3.82	0.032	50.892	12.111	63.04	5.56	9.42	11.25	4.63	16.85	77.06
Q2 Subtotal	22.19	0.18	324.82	98.56	423.57	32.32	124.24	65.37	55.18	97.87	602.81
July	3.35	0.03	41.67	8.35	50.05	4.88	3.45	9.87	4.22	14.78	57.69
August	3.32	0.03	40.34	9.23	49.61	4.84	6.34	9.78	4.92	14.64	60.83
September	1.07	0.01	2.99	0.05	3.05	1.56	0.00	3.15	0.02	4.72	3.06
Q3 Subtotal	7.74	0.06	85.01	17.63	102.70	11.27	9.79	22.80	9.16	34.14	121.58
October	0.75	0.01	5.94	0.51	6.45	1.09	0.00	2.21	0.21	3.31	6.66
November	9.25	0.08	159.13	50.94	210.14	13.47	56.70	27.25	29.12	40.80	295.88
December	3.09	0.03	36.52	8.36	44.90	4.50	5.55	9.10	4.44	13.63	54.86
Q4 Subtotal	13.09	0.11	201.58	59.80	261.49	19.07	62.25	38.56	33.77	57.74	357.41
ANNUAL TOTALS	46.98	0.41	650.78	181.44	832.63	71.05	197.88	143.69	100.77	215.15	1130.87

Mill Creek Water Levels 4th Quarter 2024



Quarter Summary	4th Qtr
Total Tons Shipped	970,000
Total Acre Feet	18.60
Average Moisture %	2.61%

Water Volume Movements		January	February	March	April	May	June	July	August	September
Pumped from Pit		105.9	127.1	113.5	159.3	254.1	172.5	154.1	92.7	116.6
Groundwater Component of Pitwater		96.0	120.4	88.9	-102.3	157.6	110.7	105.3	44.3	114.8
Quarry dust suppression		0.2	2.0	1.3	2.5	3.1	6.1	4.8	3.8	3.9
Q- freshwater pond		105.6	125.1	112.3	156.7	251.0	166.4	149.3	-36.6	77.7
	To Secondary FM7	211.4	441.6	448.4	497.8	557.6	460.0	310.6	463.4	459.1
	To sand Plant FM8	65.4	155.3	154.7	155.0	186.9	141.2	97.9	140.2	134.7
	to loadout FM6	147.6	316.1	300.1	300.1	360.3	302.0	237.2	305.7	350.5
	to dust control FM9	0.674	9.672	10.612	9.162	8.438	9.290	7.770	10.085	10.846
to Plant FM7+FM8+FM6		424.4	913.0	903.2	952.9	1104.8	903.2	645.7	909.3	944.3
	to stream Augmentation	0	0	0	0	0	0	0	125.5632	34.97143745
bypass discharge		2.0238	1.9556	0	0	0	0	2.0504038	0	0
To Troy FM3		416.9	957.4	943.7	1000.2	1142.5	938.2	641.2	933.2	941.2
To Booster FM2		433.8	962.3	965.5	1048.0	1205.8	948.9	651.9	944.9	961.8
From Troy to Freshwater Pond FM4		302.9	871.0	706.8	42.4	1250.7	971.1	1101.9	982.6	1234.6

Water Volume Movements		October	November	December
Pumped from Pit		138.1	205.3	204.1
Groundwater Component of Pitwater		132.9	-3.6	160.4
Quarry dust suppression		1.6	2.7	1.1
Q- freshwater pond		136.5	202.6	203.0
	To Secondary FM7	526.6	555.8	765.1
	To sand Plant FM8	158.0	147.3	153.8
	to loadout FM6	452.4	407.9	352.6
	to dust control FM9	11.664	9.658	12.372
to Plant FM7+FM8+FM6		1137.0	1110.9	1271.4
	to stream Augmentation	0	0	0
bypass discharge		0.52843715	0.14958658	1.2861383
To Troy FM3		1125.1	1078.0	1071.0
To Booster FM2		1147.5	1074.6	1096.8
From Troy to Freshwater Pond FM4		1362.3	1128.2	878.7

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Monthly data generated on Sunday, December 08, 2024 at 18:52 UTC

MESONET CLIMATOLOGICAL DATA SUMMARY										November 2024				Time Zone: Midnight-Midnight CST						
(TISH) Tishomingo										Nearest City: 6.0 N Tishomingo				County: Johnston						
Latitude: 34-19-57										Longitude: 96-40-44				Elevation: 879 feet						
DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	70	48	59.6	52.9	6	0	93	63	79	0.00	29.20	30.14	ESE	5.4	14.0	6.94	65.0	62.6	68	57
2	71	63	66.5	64.8	0	2	99	86	95	0.27	29.08	30.02	SE	7.2	22.9	2.75	67.3	66.8	69	64
3	69	62	64.8	63.9	0	0	99	88	97	6.69	28.83	29.77	SSE	8.6	38.6	1.01	66.1	66.5	69	65
4	78	63	68.3	65.9	0	5	99	74	92	0.72	28.77	29.70	SSE	9.0	35.1	2.83	67.0	68.0	70	66
5	66	46	57.9	52.2	9	0	99	54	83	0.04	28.89	29.83	WSW	6.6	21.1	10.89	66.4	65.0	69	59
6	71	45	56.6	46.7	7	0	95	36	73	0.00	29.04	29.98	NE	6.0	13.2	14.53	63.2	60.0	68	54
7	72	52	61.5	55.1	3	0	94	59	81	0.00	29.14	30.09	ENE	9.0	20.7	8.62	63.5	60.7	66	56
8	65	54	62.1	60.4	6	0	99	88	94	0.61	29.05	29.99	E	8.0	20.0	2.01	64.9	64.0	66	63
9	70	41	54.8	44.6	9	0	99	32	73	0.01	29.05	29.99	WSW	3.9	17.5	14.23	63.2	60.9	67	55
10	76	41	57.0	43.5	6	0	98	28	67	0.00	29.07	30.01	NNW	4.6	14.8	13.84	61.4	58.5	67	52
11	76	45	58.2	45.1	5	0	94	30	67	0.00	29.12	30.06	N	3.6	13.3	13.45	61.2	59.1	68	52
12	72	44	57.7	47.5	7	0	98	44	72	0.00	29.06	30.00	SE	5.7	21.2	13.35	60.9	58.6	66	53
13	73	48	59.6	46.8	5	0	89	31	66	0.00	29.02	29.96	NW	8.6	29.9	12.05	61.4	58.7	65	55
14	70	39	52.3	35.2	10	0	93	20	60	0.00	29.17	30.11	NW	3.8	12.4	13.80	59.3	55.4	64	48
15	70	35	52.6	36.9	13	0	97	28	61	0.00	29.09	30.04	ESE	5.4	18.9	13.71	57.6	53.7	62	47
16	70	46	57.6	48.9	7	0	90	56	74	0.00	28.96	29.89	SE	9.7	26.7	12.34	58.4	55.2	62	49
17	73	56	64.5	61.6	1	0	99	73	91	0.17	28.92	29.85	ESE	6.4	16.1	4.56	61.1	61.2	66	56
18	69	50	63.0	57.2	6	0	99	43	83	0.87	28.62	29.55	SSE	13.2	38.8	4.31	63.0	63.3	65	58
19	72	40	56.2	45.3	9	0	99	39	70	0.00	28.86	29.79	NNW	5.9	26.8	12.98	60.1	58.7	67	52
20	61	35	48.2	23.9	17	0	80	15	44	0.00	29.32	30.27	NW	8.5	28.6	13.30	57.9	51.7	57	47
21	64	31	47.3	29.4	17	0	91	26	55	0.00	29.29	30.23	NNW	5.5	20.2	12.83	54.9	49.5	58	43
22	64	35	46.7	31.3	16	0	93	25	59	0.00	29.24	30.19	N	4.4	14.8	12.79	54.2	49.9	59	43
23	72	34	53.1	38.6	12	0	96	31	63	0.00	29.08	30.02	SSE	7.9	23.6	12.25	53.8	50.6	58	44
24	76	49	63.6	54.9	3	0	91	54	74	0.00	28.88	29.82	S	12.8	32.6	10.53	56.9	56.4	63	50
25	62	37	48.6	40.3	15	0	98	56	74	0.00	29.17	30.11	NNW	10.7	27.3	4.93	56.9	52.9	58	46
26	58	29	44.2	29.6	22	0	82	37	58	0.00	29.21	30.15	SSE	6.9	17.8	12.16	53.5	47.0	54	40
27	76	40	53.7	42.2	7	0	99	27	69	0.00	28.85	29.78	N	9.7	30.6	10.21	54.4	50.9	59	45
28	49	27	39.4	26.8	27	0	88	35	62	0.00	29.28	30.22	N	9.4	28.4	9.53	53.1	46.4	51	41
29	53	24	37.6	25.1	26	0	93	32	65	0.00	29.40	30.35	N	4.1	14.0	12.12	49.8	43.8	53	38
30	61	27	43.4	30.0	21	0	95	30	64	0.00	29.26	30.21	SSW	7.7	28.1	12.01	49.1	44.6	52	40
	68	43	55.2	44.9	<- Monthly Averages ->						29.06	30.00	N	7.3	38.8	10.03	59.5	56.7	63	51
Temperature - Highest: 78 Lowest: 24							Degree Days - Total HDD: 290 Total CDD: 7					Number of Days With:								
Rainfall: Monthly Total: 9.38 in. Greatest 24 Hr: 6.69 in.							Humidity - Highest: 99 Lowest: 15					Tmax > 90: 0 Rainfall > 0.01 inch: 8								
												Tmax < 32: 0 Rainfall > 0.10 inch: 6								
												Tmin < 32: 5 Avg Wind Speed > 10 mph: 3								
									Tmin < 0: 0 Max Wind Speed > 30 mph: 5											

MESONET CLIMATOLOGICAL DATA SUMMARY
(TISH) Tishomingo
Latitude: 34-19-57

December 2024
Nearest City: 6.0 N Tishomingo
Longitude: 96-40-44

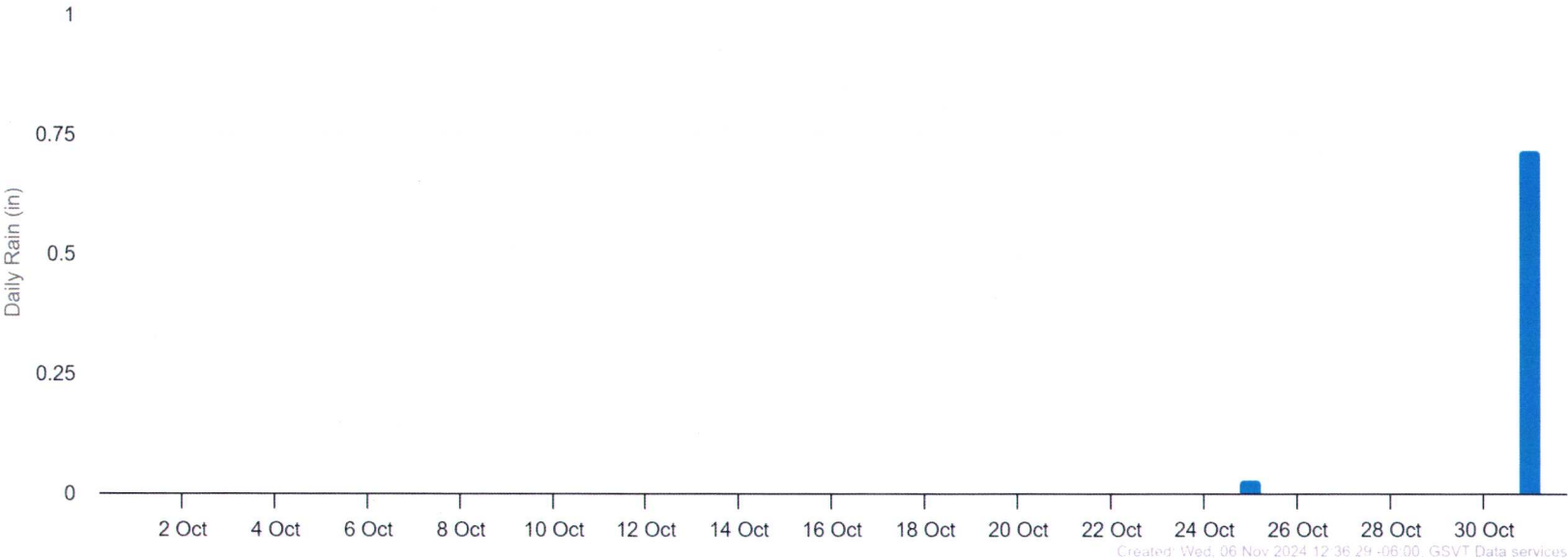
Time Zone: Midnight-Midnight CST
County: Johnston
Elevation: 879 feet

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	59	31	42.8	31.1	20	0	91	29	67	0.00	29.34	30.29	NNE	4.8	15.0	11.99	49.4	45.6	55	38
2	63	28	43.5	31.0	20	0	96	30	66	0.00	29.45	30.41	NNW	5.9	19.4	11.78	49.0	45.8	55	39
3	54	28	40.4	28.8	24	0	80	45	64	0.00	29.49	30.44	NNE	6.5	14.5	11.40	49.1	44.0	52	38
4	54	38	46.7	43.8	19	0	99	78	90	0.00	29.24	30.18	S	4.3	14.3	2.31	49.8	46.8	51	43
5	48	30	40.2	20.2	26	0	100	21	50	0.01	29.42	30.37	NNE	9.8	24.8	11.03	49.4	44.4	49	39
6	50	24	37.2	19.5	28	0	74	29	50	0.00	29.46	30.41	SSE	4.7	15.0	11.25	47.1	41.6	49	37
7	56	36	45.1	35.0	19	0	99	35	70	0.05	29.32	30.27	S	6.1	18.2	5.69	48.5	45.5	50	42
8	52	43	46.6	45.8	17	0	99	93	97	0.07	28.99	29.93	S	7.9	18.7	2.03	49.7	47.7	49	46
9	58	48	51.8	49.0	12	0	99	70	91	0.00	28.89	29.83	ESE	5.7	18.3	3.36	51.5	51.0	55	48
10	49	31	40.2	29.2	25	0	92	42	66	0.00	29.20	30.14	N	10.0	25.4	5.41	50.2	45.3	51	40
11	56	27	39.7	23.1	23	0	88	23	56	0.00	29.35	30.30	NW	5.0	17.9	11.61	46.9	42.1	50	37
12	63	28	46.3	25.0	20	0	90	19	48	0.00	29.29	30.24	S	10.1	34.6	11.24	46.2	42.3	49	37
13	56	48	51.7	44.2	13	0	98	52	77	0.16	29.24	30.19	SE	10.2	23.2	2.41	48.9	47.1	51	43
14	69	35	55.3	44.6	13	0	99	25	74	0.14	29.19	30.13	WNW	6.8	20.1	11.30	52.3	53.9	60	48
15	64	33	50.6	48.7	17	0	99	82	93	0.00	29.13	30.07	SSE	5.8	15.2	3.62	50.5	49.6	56	43
16	73	49	63.8	50.7	4	0	99	27	68	0.00	29.15	30.09	NNE	9.2	22.6	5.32	55.3	58.0	64	51
17	69	45	56.9	48.6	8	0	97	54	74	0.34	29.18	30.12	SSE	5.5	17.9	7.49	54.5	54.0	61	48
18	62	31	46.0	33.9	18	0	97	46	64	0.00	29.39	30.33	N	10.1	28.2	11.35	54.0	51.4	57	44
19	59	27	40.8	32.4	22	0	97	40	75	0.00	29.33	30.28	NW	4.7	18.3	10.83	49.7	45.6	54	39
20	48	28	39.3	23.9	27	0	81	31	56	0.00	29.46	30.41	N	8.8	27.9	11.50	48.4	43.4	49	40
21	50	25	36.3	24.9	28	0	86	43	65	0.00	29.40	30.35	ESE	5.5	18.7	11.20	46.0	41.3	49	37
22	56	32	44.5	32.7	21	0	85	49	65	0.00	29.26	30.21	SSE	9.0	23.2	9.81	46.5	43.2	50	37
23	62	50	55.6	47.4	9	0	86	55	74	0.00	29.15	30.09	SSE	9.7	20.4	3.12	49.7	49.5	53	45
24	58	48	52.3	51.1	12	0	98	85	95	0.94	29.12	30.06	NNE	7.7	17.8	1.00	52.0	52.3	53	51
25	49	47	48.0	47.4	17	0	99	96	98	0.01	29.07	30.01	NNE	5.3	14.1	1.83	51.9	50.8	52	50
26	54	48	50.4	49.8	14	0	100	92	98	1.35	28.95	29.89	NW	7.1	40.1	1.05	52.0	51.0	52	50
27	62	46	50.5	47.7	11	0	100	62	91	0.01	28.85	29.79	S	5.5	17.0	5.93	52.3	52.3	56	50
28	57	48	53.3	50.9	12	0	99	84	92	0.00	28.88	29.81	NE	6.5	17.7	2.17	52.5	52.3	54	51
29	64	38	50.3	46.3	14	0	99	56	88	0.01	28.97	29.90	SW	4.4	11.3	9.47	52.2	51.8	59	47
30	74	50	59.1	41.3	3	0	99	24	59	0.00	28.75	29.69	NW	10.0	27.0	11.55	53.1	53.5	59	50
31	54	37	46.2	32.2	19	0	79	39	59	0.00	29.14	30.08	N	9.9	27.8	11.55	51.4	48.0	54	44
	58	37	47.5	38.1	<- Monthly Averages ->						29.20	30.14	SSE	7.2	40.1	7.47	50.3	48.1	53	44
Temperature - Highest: 74 Lowest: 24							Degree Days - Total HDD: 533 Total CDD: 0					Number of Days With:								
Rainfall: Monthly Total: 3.09 in. Greatest 24 Hr: 1.35 in.							Humidity - Highest: 100 Lowest: 19					Tmax > 90: 0 Rainfall > 0.01 inch: 11 Tmax < 32: 0 Rainfall > 0.10 inch: 5 Tmin < 32: 13 Avg Wind Speed > 10 mph: 5 Tmin < 0: 0 Max Wind Speed > 30 mph: 2								

MARTIN MARIETTA MILL CREEK LIMESTONE WEATHER – DAILY TOTAL RAIN

Mill Creek Limestone Daily Total Rain

Total Rain: 0.75 (in)



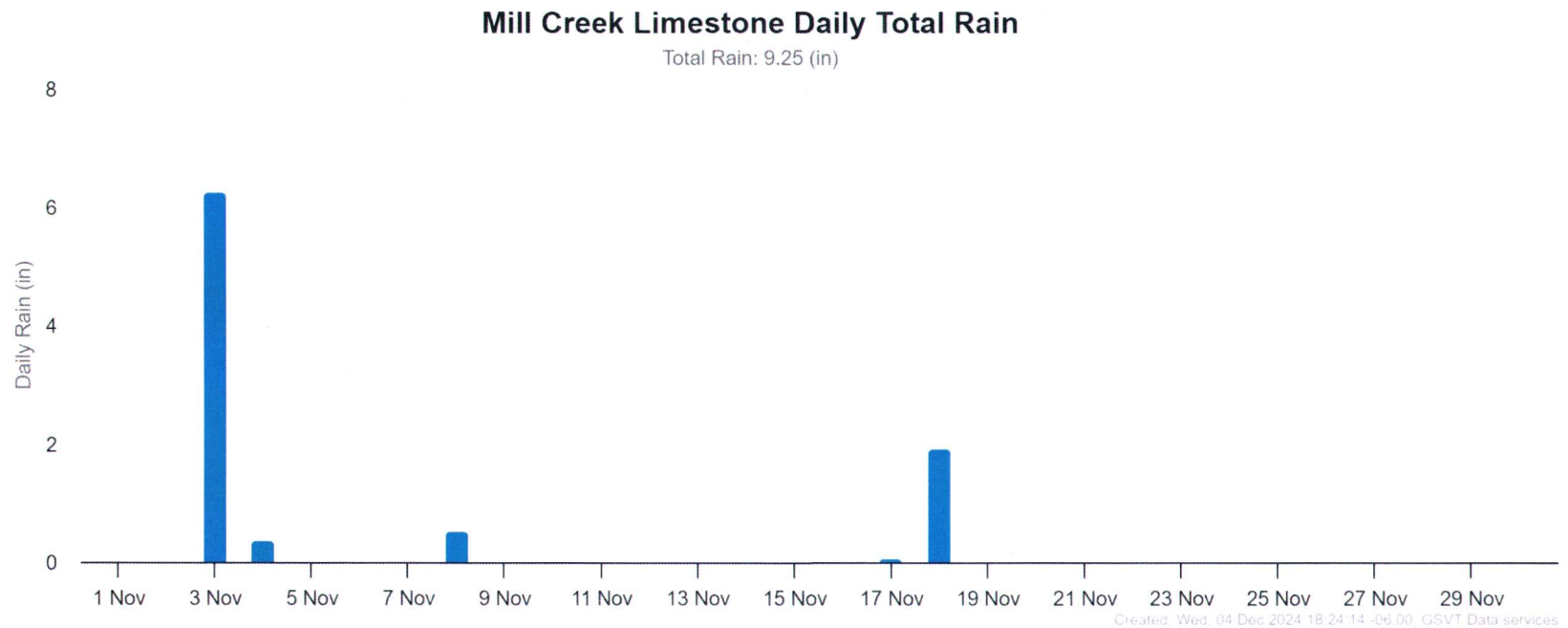
Created: Wed, 06 Nov 2024 12:36:29 -06:00, GSVT Data services

Date	Daily Rain (in)
10/1/2024	0
10/2/2024	0
10/3/2024	0
10/4/2024	0
10/5/2024	0
10/6/2024	0
10/7/2024	0
10/8/2024	0
10/9/2024	0
10/10/2024	0
10/11/2024	0

10/12/2024	0
10/13/2024	0
10/14/2024	0
10/15/2024	0
10/16/2024	0
10/17/2024	0
10/18/2024	0
10/19/2024	0
10/20/2024	0
10/21/2024	0
10/22/2024	0
10/23/2024	0
10/24/2024	0

10/25/2024	0.03
10/26/2024	0
10/27/2024	0
10/28/2024	0
10/29/2024	0
10/30/2024	0
10/31/2024	0.72

MARTIN MARIETTA MILL CREEK LIMESTONE WEATHER – DAILY TOTAL RAIN



Date	Daily Rain (in)
11/1/2024	0
11/2/2024	0.02
11/3/2024	6.28
11/4/2024	0.39
11/5/2024	0.01
11/6/2024	0
11/7/2024	0
11/8/2024	0.54
11/9/2024	0
11/10/2024	0

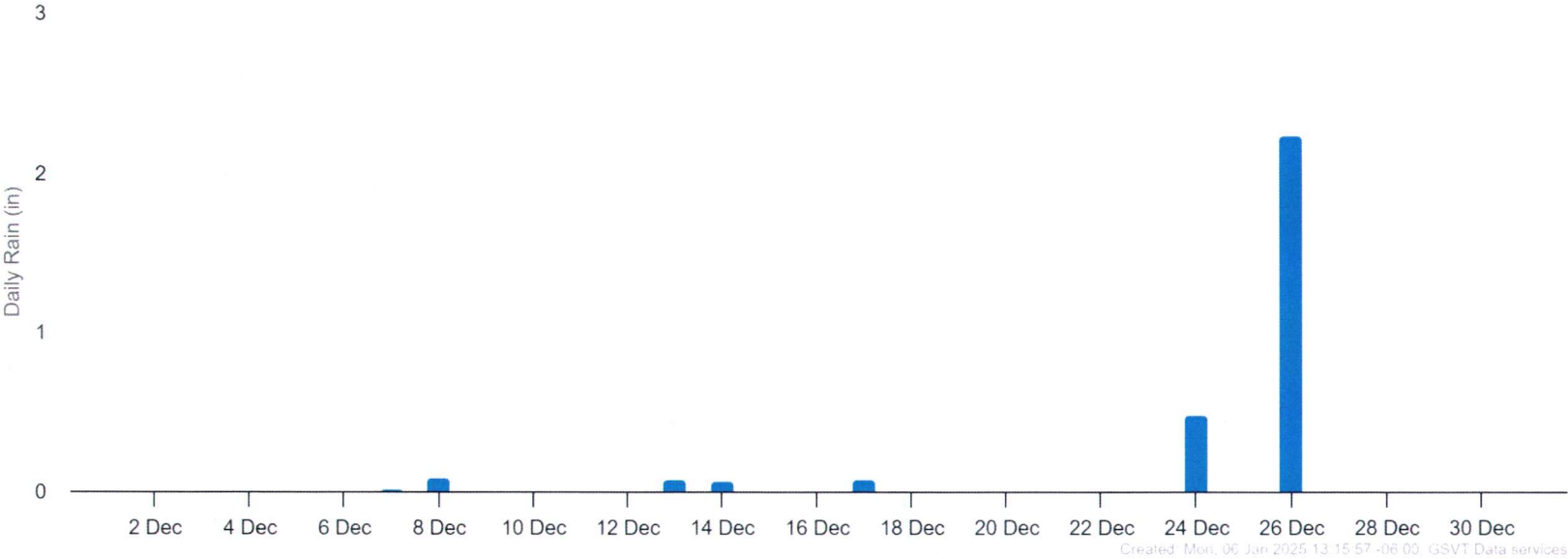
11/11/2024	0
11/12/2024	0
11/13/2024	0
11/14/2024	0
11/15/2024	0
11/16/2024	0
11/17/2024	0.07
11/18/2024	1.94
11/19/2024	0
11/20/2024	0
11/21/2024	0

11/22/2024	0
11/23/2024	0
11/24/2024	0
11/25/2024	0
11/26/2024	0
11/27/2024	0
11/28/2024	0
11/29/2024	0
11/30/2024	0

MARTIN MARIETTA MILL CREEK LIMESTONE WEATHER – DAILY TOTAL RAIN

Mill Creek Limestone Daily Total Rain

Total Rain: 3.09 (in)



Date	Daily Rain (in)
12/1/2024	0
12/2/2024	0
12/3/2024	0
12/4/2024	0
12/5/2024	0
12/6/2024	0
12/7/2024	0.02
12/8/2024	0.09
12/9/2024	0.01
12/10/2024	0
12/11/2024	0
12/12/2024	0

12/13/2024	0.08
12/14/2024	0.07
12/15/2024	0
12/16/2024	0
12/17/2024	0.08
12/18/2024	0
12/19/2024	0
12/20/2024	0
12/21/2024	0
12/22/2024	0
12/23/2024	0
12/24/2024	0.49
12/25/2024	0

12/26/2024	2.24
12/27/2024	0.01
12/28/2024	0
12/29/2024	0
12/30/2024	0
12/31/2024	0

```
# ----- WARNING -----
# Some of the data that you have obtained from this U.S. Geological Survey database
# may not have received Director's approval. Any such data values are qualified
# as provisional and are subject to revision. Provisional data are released on the
# condition that neither the USGS nor the United States Government may be held liable
# for any damages resulting from its use.
#
# Additional info: https://waterdata.usgs.gov/provisional-data-statement/
#
# Contact: gs-w_waterdata_support@usgs.gov
# retrieved: 2025-02-17 15:37:37 EST (sdww02)
#
# Data for the following 1 site(s) are contained in this file
# USGS 07331200 Mill Creek near Mill Creek, OK
# -----
#
# Data provided for site 07331200
# TS parameter statistic Description
# 325587 00060 00003 Discharge, cubic feet per second (Mean)
#
# Data-value qualification codes included in this output:
# A Approved for publication -- Processing and review completed.
# P Provisional data subject to revision.
#
agency_cd site_no datetime 325587_00060_00003 325587_00060_00003_cd
5s 15s 20d 14n 10s
USGS 07331200 2024-10-01 5.35 A
USGS 07331200 2024-10-02 6.24 A
USGS 07331200 2024-10-03 8.91 A
USGS 07331200 2024-10-04 10.3 A
USGS 07331200 2024-10-05 10.3 A
USGS 07331200 2024-10-06 10.2 A
USGS 07331200 2024-10-07 8.50 A
USGS 07331200 2024-10-08 9.36 A
USGS 07331200 2024-10-09 7.69 A
USGS 07331200 2024-10-10 6.11 P
USGS 07331200 2024-10-11 6.44 P
USGS 07331200 2024-10-12 7.30 P
USGS 07331200 2024-10-13 9.56 P
USGS 07331200 2024-10-14 9.75 P
USGS 07331200 2024-10-15 7.14 P
USGS 07331200 2024-10-16 7.09 P
USGS 07331200 2024-10-17 8.81 P
USGS 07331200 2024-10-18 6.16 P
USGS 07331200 2024-10-19 9.85 P
USGS 07331200 2024-10-20 9.82 P
USGS 07331200 2024-10-21 7.19 P
USGS 07331200 2024-10-22 9.36 P
USGS 07331200 2024-10-23 7.79 P
USGS 07331200 2024-10-24 6.25 P
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USGS 07331200 2024-10-28 1.80 P
USGS 07331200 2024-10-29 10.3 P
USGS 07331200 2024-10-30 8.49 P
USGS 07331200 2024-10-31 10.1 P
USGS 07331200 2024-11-01 8.29 P
USGS 07331200 2024-11-02 9.91 P
USGS 07331200 2024-11-03 57.2 P
USGS 07331200 2024-11-04 20.8 P
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USGS	07331200	2024-11-05	8.54	P
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USGS	07331200	2024-11-07	6.65	P
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USGS	07331200	2024-11-11	11.3	P
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USGS	07331200	2024-12-10	4.37	P
USGS	07331200	2024-12-11	3.40	P
USGS	07331200	2024-12-12	3.08	P
USGS	07331200	2024-12-13	5.84	P
USGS	07331200	2024-12-14	5.68	P
USGS	07331200	2024-12-15	5.96	P
USGS	07331200	2024-12-16	5.10	P
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USGS	07331200	2024-12-18	4.21	P
USGS	07331200	2024-12-19	1.86	P
USGS	07331200	2024-12-20	1.74	P
USGS	07331200	2024-12-21	5.51	P
USGS	07331200	2024-12-22	6.02	P
USGS	07331200	2024-12-23	4.64	P
USGS	07331200	2024-12-24	6.82	P
USGS	07331200	2024-12-25	6.76	P
USGS	07331200	2024-12-26	91.4	P
USGS	07331200	2024-12-27	42.6	P
USGS	07331200	2024-12-28	10.9	P
USGS	07331200	2024-12-29	9.98	P
USGS	07331200	2024-12-30	6.96	P
USGS	07331200	2024-12-31	6.64	P

Date	Reference ET, Short (in.)	Reference ET, Tall (in.)	Cool Season Grass ET (in.)	Warm Season Grass ET (in.)	Pan Evapotran spiration (in.)
10/1/2024	0.19	0.27	0.18	0.12	0.26
10/2/2024	0.17	0.23	0.16	0.1	0.22
10/3/2024	0.21	0.3	0.2	0.13	0.28
10/4/2024	0.16	0.2	0.15	0.1	0.2
10/5/2024	0.17	0.23	0.16	0.11	0.22
10/6/2024	0.14	0.18	0.13	0.09	0.18
10/7/2024	0.16	0.23	0.15	0.1	0.22
10/8/2024	0.18	0.25	0.16	0.11	0.24
10/9/2024	0.17	0.24	0.16	0.11	0.23
10/10/2024	0.22	0.32	0.2	0.13	0.31
10/11/2024	0.26	0.4	0.24	0.16	0.39
10/12/2024	0.18	0.26	0.17	0.11	0.25
10/13/2024	0.21	0.32	0.2	0.13	0.3
10/14/2024	0.16	0.24	0.15	0.1	0.23
10/15/2024	0.19	0.29	0.18	0.12	0.28
10/16/2024	0.12	0.17	0.11	0.07	0.16
10/17/2024	0.16	0.24	0.15	0.1	0.23
10/18/2024	0.2	0.31	0.19	0.13	0.3
10/19/2024	0.16	0.24	0.15	0.1	0.22
10/20/2024	0.13	0.18	0.12	0.08	0.17
10/21/2024	0.19	0.3	0.18	0.12	0.28
10/22/2024	0.17	0.24	0.15	0.1	0.22
10/23/2024	0.14	0.2	0.13	0.09	0.18
10/24/2024	0.22	0.33	0.2	0.14	0.31
10/25/2024	0.17	0.25	0.16	0.1	0.23
10/26/2024	0.15	0.23	0.14	0.09	0.21
10/27/2024	0.12	0.16	0.11	0.07	0.15
10/28/2024	0.25	0.39	0.23	0.15	0.37
10/29/2024	0.22	0.34	0.2	0.13	0.33
10/30/2024	0.12	0.18	0.11	0.07	0.17
10/31/2024	0.1	0.13	0.09	0.06	0.12
11/1/2024	0.09	0.12	0.08	0.06	0.11
11/2/2024	0.05	0.08	0.05	0.03	0.07
11/3/2024	0.04	0.05	0.04	0.02	0.05
11/4/2024	0.04	0.04	0.03	0.02	0.04
11/5/2024	0.05	0.07	0.05	0.03	0.06
11/6/2024	0.09	0.13	0.09	0.06	0.11
11/7/2024	0.09	0.13	0.08	0.05	0.11
11/8/2024	0.02	0.02	0.02	0.01	0.02

11/9/2024	0.09	0.13	0.09	0.06	0.12
11/10/2024	0.07	0.09	0.06	0.04	0.08
11/11/2024	0.07	0.08	0.06	0.04	0.08
11/12/2024	0.1	0.14	0.09	0.06	0.12
11/13/2024	0.11	0.17	0.1	0.07	0.15
11/14/2024	0.07	0.1	0.07	0.05	0.09
11/15/2024	0.11	0.17	0.1	0.07	0.15
11/16/2024	0.11	0.18	0.11	0.07	0.16
11/17/2024	0.04	0.06	0.04	0.03	0.06
11/18/2024	0.04	0.06	0.04	0.03	0.06
11/19/2024	0.09	0.14	0.09	0.06	0.12
11/20/2024	0.09	0.14	0.09	0.06	0.12
11/21/2024	0.07	0.1	0.06	0.04	0.09
11/22/2024	0.05	0.07	0.05	0.03	0.07
11/23/2024	0.13	0.2	0.12	0.08	0.17
11/24/2024	0.15	0.23	0.14	0.09	0.21
11/25/2024	0.11	0.18	0.1	0.07	0.16
11/26/2024	0.07	0.11	0.07	0.04	0.09
11/27/2024	0.07	0.12	0.07	0.05	0.1
11/28/2024	0.06	0.09	0.06	0.04	0.08
11/29/2024	0.06	0.08	0.05	0.03	0.07
11/30/2024	0.09	0.14	0.08	0.06	0.12
12/1/2024	0.04	0.06	0.04	0.03	0.05
12/2/2024	0.06	0.09	0.05	0.04	0.07
12/3/2024	0.07	0.11	0.06	0.04	0.09
12/4/2024	0.08	0.12	0.07	0.05	0.1
12/5/2024	0.08	0.12	0.07	0.05	0.11
12/6/2024	0.07	0.11	0.07	0.04	0.1
12/7/2024	0.08	0.12	0.07	0.05	0.1
12/8/2024	0.02	0.03	0.02	0.01	0.03
12/9/2024	0.02	0.02	0.02	0.01	0.02
12/10/2024	0.07	0.11	0.06	0.04	0.1
12/11/2024	0.06	0.09	0.05	0.04	0.07
12/12/2024	0.11	0.17	0.1	0.07	0.15
12/13/2024	0.06	0.09	0.05	0.04	0.08
12/14/2024	0.07	0.1	0.06	0.04	0.09
12/15/2024	0.03	0.04	0.03	0.02	0.04
12/16/2024	0.09	0.14	0.08	0.06	0.12
12/17/2024	0.06	0.08	0.05	0.04	0.07
12/18/2024	0.09	0.14	0.08	0.06	0.12
12/19/2024	0.05	0.07	0.05	0.03	0.06
12/20/2024	0.06	0.1	0.06	0.04	0.08
12/21/2024	0.05	0.07	0.04	0.03	0.06
12/22/2024	0.07	0.11	0.07	0.04	0.09

12/23/2024	0.07	0.1	0.06	0.04	0.08
12/24/2024	0.03	0.04	0.03	0.02	0.03
12/25/2024	0.02	0.02	0.02	0.01	0.02
12/26/2024	0.02	0.03	0.02	0.01	0.03
12/27/2024	0.05	0.06	0.04	0.03	0.06
12/28/2024	0.03	0.03	0.02	0.02	0.03
12/29/2024	0.04	0.06	0.04	0.03	0.05
12/30/2024	0.13	0.21	0.12	0.08	0.18
12/31/2024	0.08	0.12	0.07	0.05	0.1