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Jesse Martindale  
Sr. Environmental Engineer

Oklahoma Water Resources Board

June 20, 2023

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

Re: Martin Marietta Mill Creek Limestone Quarry Monitoring Report Q1 2023

Dear Mr. Cogburn:

Attached please find the Q1 2023 Quarterly Monitoring 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 2023

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Appendix C . Consumptive use of Pitwater

Q1 2023 Q2 2023 Q3 2023 Q4 2023

PIT GROUNDWATER VOLUME					
1	Total volume pumped from producing mine pit(s) (AC-FT)		432.7		
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)		0.1		
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)		121.6		
4	(WATER HELD IN PIT FROM PREVIOUS MONTHS) other non pit waters pumped from the producing mining pit (AC-FT)		0.5		
5	add lines 2 through 4		122.2		
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)		310.5		
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		
8	Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)		2.12		
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		
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)		9.27		
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)		11.39		
PIT GROUNDWATER BALANCE					
12	Lines 6 minus 11		299.15		
13	Groundwater Augmentation Volume of pit water returned to GW Basin or subbasin. (Troy Recharge AC-FT)	Credits	261.71		
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		
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)		38.57		
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)		259.95		
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)		5.68		
18	add lines 13 through 17		565.91		
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18		-266.76		
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)					
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19			-255.37		

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2023	PPT. Inches	Quarry Monthly Totals				FW Pond Monthly Totals		Re-cycle Recharge (Troy) Monthly Totals		MM-Mill Creek Limestone Totals	
		Sump Direct ppt	In-Quarry Runoff	Runoff from beyond Quarry	Quarry Totals	Direct ppt	Runoff	Direct ppt	Runoff	Direct ppt	Runoff
		ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
January	0.36	0.016	26.076	6.452	32.54	2.77	5.11	5.60	3.50	8.38	41.13
February	0.89	0.029	31.543	5.188	36.76	5.07	2.76	10.25	2.65	15.35	42.14
March	4.39	0.037	45.010	7.370	52.42	6.39	2.63	12.93	3.64	19.36	58.65
<b>Q1 Subtotal</b>	<b>5.64</b>	<b>0.08</b>	<b>102.63</b>	<b>19.01</b>	<b>121.72</b>	<b>14.23</b>	<b>10.50</b>	<b>28.78</b>	<b>9.79</b>	<b>43.09</b>	<b>141.93</b>

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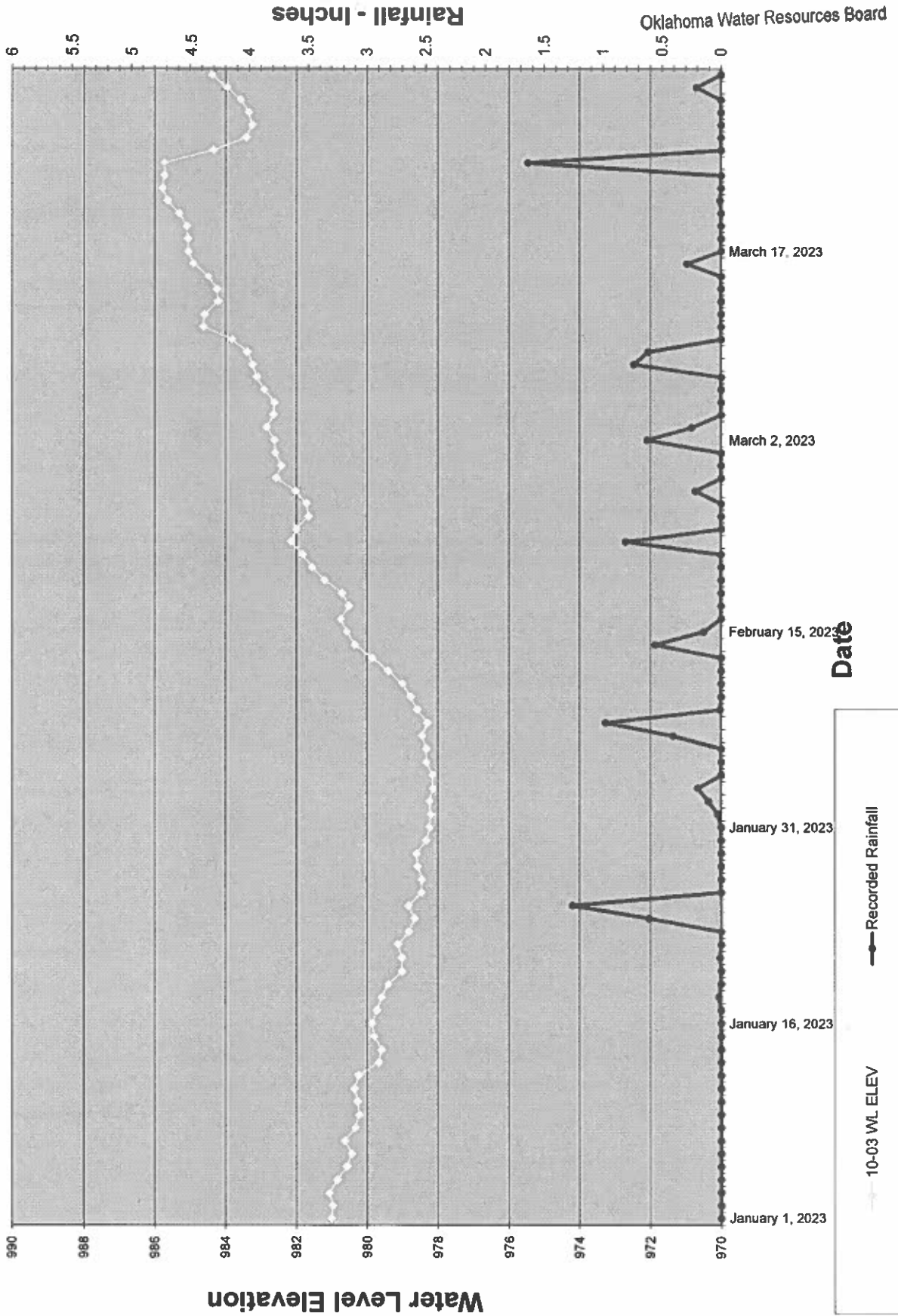
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Water Volume Movements	January	February	March
Pumped from Pit	110.8	132.0	190.0
Groundwater Component of Pitwater	79.0	96.0	138.3
Quarry dust suppression	7.4	1.9	3.6
Q- freshwater pond	103.4	130.0	186.4
To Secondary FM7	508.2	422.6	608.3
To sand Plant FM8	151.9	132.6	168.2
to loadout FM6	317.9	272.5	374.4
to dust control FM9	0.000	0.000	0.000
to Plant FM7+FM8+FM6	978.1	827.7	1150.8
bypass discharge	0.000	0.000	0.000
To Troy FM3	1.1097219	0.52843784	2.34219935
To Booster FM2	994.1	864.3	1175.8
From Troy to Freshwater Pond FM4	988.3	887.3	1206.8
	969.8	837.5	1158.2

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### Mill Creek Water Levels 1st Quarter 2023



# ----- 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://help.waterdata.usgs.gov/policies/provisional-data-statement>  
 # File-format description: <https://help.waterdata.usgs.gov/faq/about-tab-delimited-output>  
 # Automated-retrieval info: <https://help.waterdata.usgs.gov/faq/automated-retrievals>

# Contact: [gs-w\\_waterdata\\_support@usgs.gov](mailto:gs-w_waterdata_support@usgs.gov)  
 # retrieved: 2023-02-17 18:26:40 EST (caww01)

# 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  
 # 111780 00060 00003 Discharge, cubic feet per second (Mean)

# Data-value qualification codes included in this output:  
 # P Provisional data subject to revision.  
 # 4 Statistic computed from less than expected number of instantaneous values for the period

agency_cd	site_no	datetime	111780_00060_00003	111780_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200		2023-01-01	1.04 P
USGS	07331200		2023-01-02	1.05 P
USGS	07331200		2023-01-03	1.01 P
USGS	07331200		2023-01-04	1.81 P
USGS	07331200		2023-01-05	2.11 P
USGS	07331200		2023-01-06	1.58 P
USGS	07331200		2023-01-07	1.27 P
USGS	07331200		2023-01-08	0.99 P
USGS	07331200		2023-01-09	0.88 P
USGS	07331200		2023-01-10	0.81 P
USGS	07331200		2023-01-11	0.88 P
USGS	07331200		2023-01-12	0.89 P
USGS	07331200		2023-01-13	0.78 P
USGS	07331200		2023-01-14	0.92 P
USGS	07331200		2023-01-15	0.95 P
USGS	07331200		2023-01-16	0.89 P
USGS	07331200		2023-01-17	0.79 P
USGS	07331200		2023-01-18	0.79 P
USGS	07331200		2023-01-19	0.73 P
USGS	07331200		2023-01-20	0.68 P
USGS	07331200		2023-01-21	0.76 P
USGS	07331200		2023-01-22	0.72 P
USGS	07331200		2023-01-23	0.65 P
USGS	07331200		2023-01-24	1.50 P:[4]
USGS	07331200		2023-01-25	2.63 P
USGS	07331200		2023-01-26	1.93 P
USGS	07331200		2023-01-27	1.33 P
USGS	07331200		2023-01-28	1.26 P
USGS	07331200		2023-01-29	1.08 P
USGS	07331200		2023-01-30	0.95 P
USGS	07331200		2023-01-31	0.97 P

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#
# File-format description: https://help.waterdata.usgs.gov/faq/about-tab-delimited-output
# Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact: gs-w_waterdata_support@usgs.gov
# retrieved: 2023-06-20 10:19:28 EDT (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:
# 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	2023-02-01	0.96	P
USGS	07331200	2023-02-02	0.96	P
USGS	07331200	2023-02-03	0.99	P
USGS	07331200	2023-02-04	0.90	P
USGS	07331200	2023-02-05	0.94	P
USGS	07331200	2023-02-06	0.91	P
USGS	07331200	2023-02-07	1.02	P
USGS	07331200	2023-02-08	13.8	P
USGS	07331200	2023-02-09	10.5	P
USGS	07331200	2023-02-10	5.10	P
USGS	07331200	2023-02-11	3.75	P
USGS	07331200	2023-02-12	2.96	P
USGS	07331200	2023-02-13	2.70	P
USGS	07331200	2023-02-14	8.82	P
USGS	07331200	2023-02-15	3.82	P
USGS	07331200	2023-02-16	10.1	P
USGS	07331200	2023-02-17	4.31	P
USGS	07331200	2023-02-18	3.95	P
USGS	07331200	2023-02-19	3.80	P
USGS	07331200	2023-02-20	3.54	P
USGS	07331200	2023-02-21	3.40	P
USGS	07331200	2023-02-22	30.6	P
USGS	07331200	2023-02-23	18.5	P
USGS	07331200	2023-02-24	7.86	P
USGS	07331200	2023-02-25	6.23	P
USGS	07331200	2023-02-26	7.07	P
USGS	07331200	2023-02-27	10.3	P
USGS	07331200	2023-02-28	8.60	P

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# Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact: gs-w_waterdata_support@usgs.gov
# retrieved: 2023-06-20 10:19:50 EDT (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:
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#

```

agency_cd	site_no	datetime	325587_00060_00003	325587_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200	2023-03-01	7.11	P
USGS	07331200	2023-03-02	6.94	P
USGS	07331200	2023-03-03	16.8	P
USGS	07331200	2023-03-04	13.3	P
USGS	07331200	2023-03-05	10.2	P
USGS	07331200	2023-03-06	7.74	P
USGS	07331200	2023-03-07	6.78	P
USGS	07331200	2023-03-08	20.2	P
USGS	07331200	2023-03-09	35.5	P
USGS	07331200	2023-03-10	28.6	P
USGS	07331200	2023-03-11	18.5	P
USGS	07331200	2023-03-12	13.7	P
USGS	07331200	2023-03-13	11.3	P
USGS	07331200	2023-03-14	10.5	P
USGS	07331200	2023-03-15	10.2	P
USGS	07331200	2023-03-16	14.5	P
USGS	07331200	2023-03-17	16.4	P
USGS	07331200	2023-03-18	11.7	P
USGS	07331200	2023-03-19	10.1	P
USGS	07331200	2023-03-20	9.55	P
USGS	07331200	2023-03-21	9.22	P
USGS	07331200	2023-03-22	9.79	P
USGS	07331200	2023-03-23	9.60	P
USGS	07331200	2023-03-24	322	P
USGS	07331200	2023-03-25	76.1	P
USGS	07331200	2023-03-26	41.7	P
USGS	07331200	2023-03-27	26.1	P
USGS	07331200	2023-03-28	19.6	P
USGS	07331200	2023-03-29	16.4	P
USGS	07331200	2023-03-30	16.5	P
USGS	07331200	2023-03-31	17.0	P

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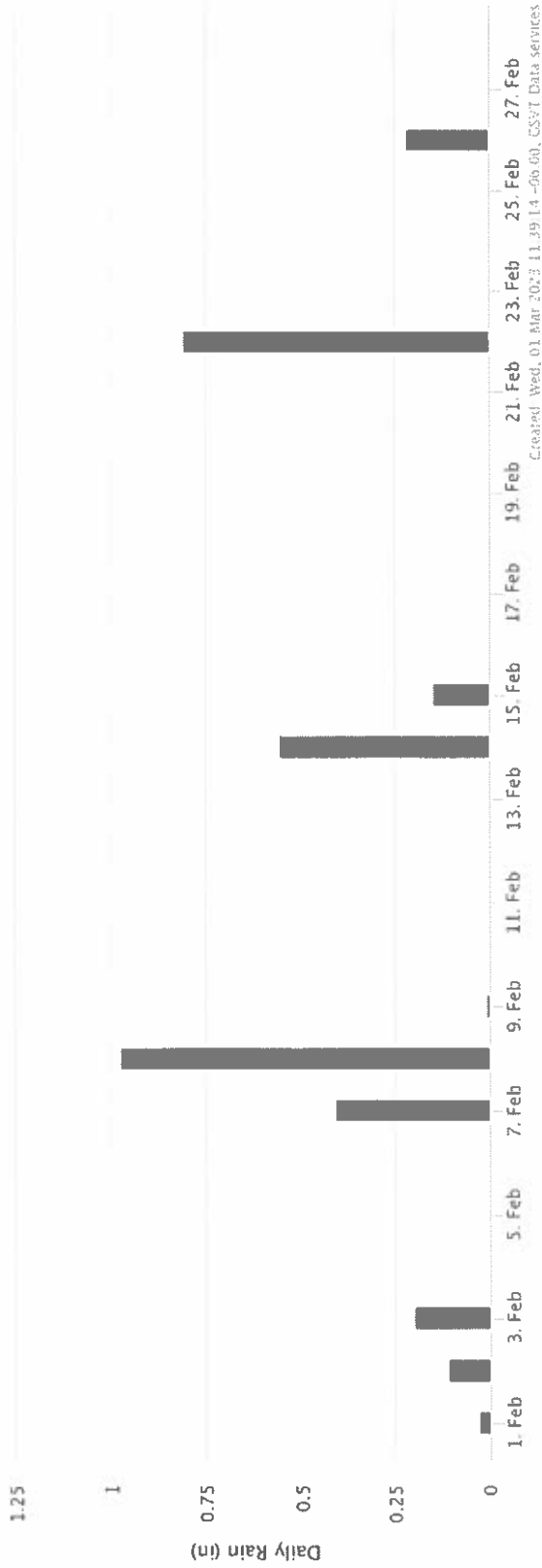
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# Martin Marietta Mill Creek Limestone Weather - Daily Total Rain

Total Rain: 3.48 (in)



Created: Wed, 01 Mar 2023 11:39:14 -0600, CSST Data services

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Date	Daily Rain (in)
2/1/2023	0.03
2/2/2023	0.11
2/3/2023	0.2
2/4/2023	0
2/5/2023	0
2/6/2023	0
2/7/2023	0.41
2/8/2023	0.98
2/9/2023	0.01

2/10/2023	0
2/11/2023	0
2/12/2023	0
2/13/2023	0
2/14/2023	0.56
2/15/2023	0.15
2/16/2023	0
2/17/2023	0
2/18/2023	0
2/19/2023	0
2/20/2023	0

2/21/2023	0
2/22/2023	0.81
2/23/2023	0
2/24/2023	0
2/25/2023	0
2/26/2023	0.22
2/27/2023	0
2/28/2023	0

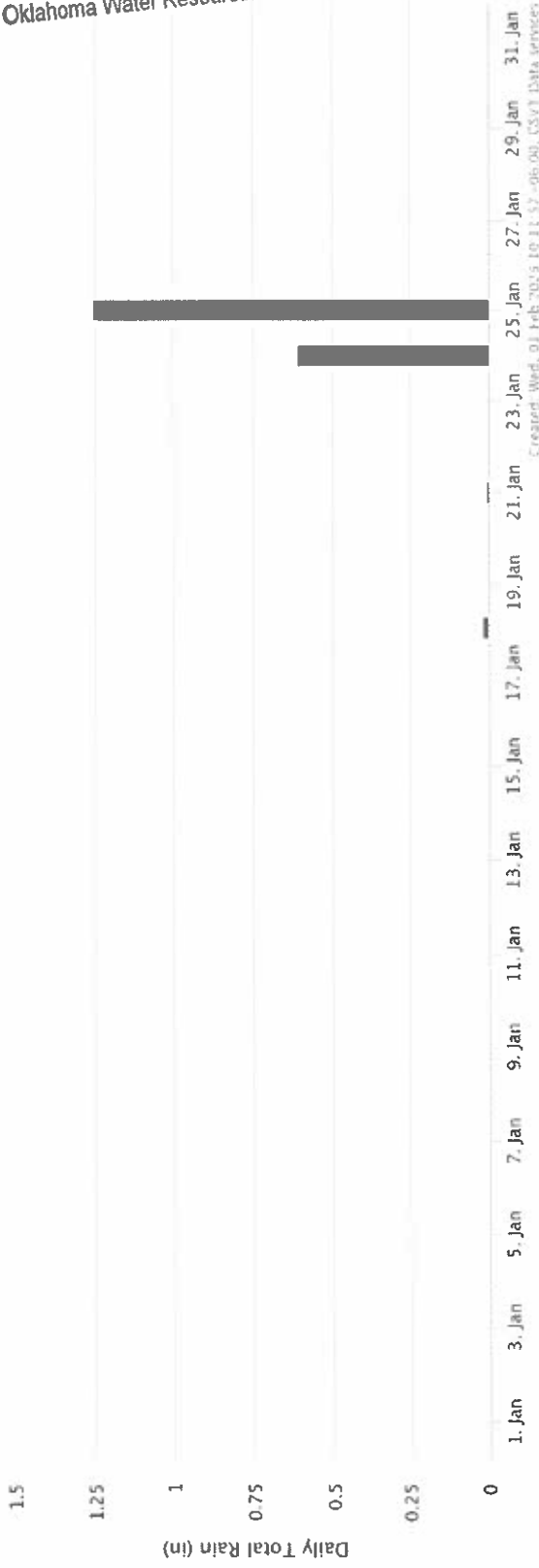
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### Mill Creek Weather Station - Daily Total Rain

Total Rain: 1.90 (in)



Created: Wed, 01 Feb 2023 10:11:57 -06:00, CSV Data Services

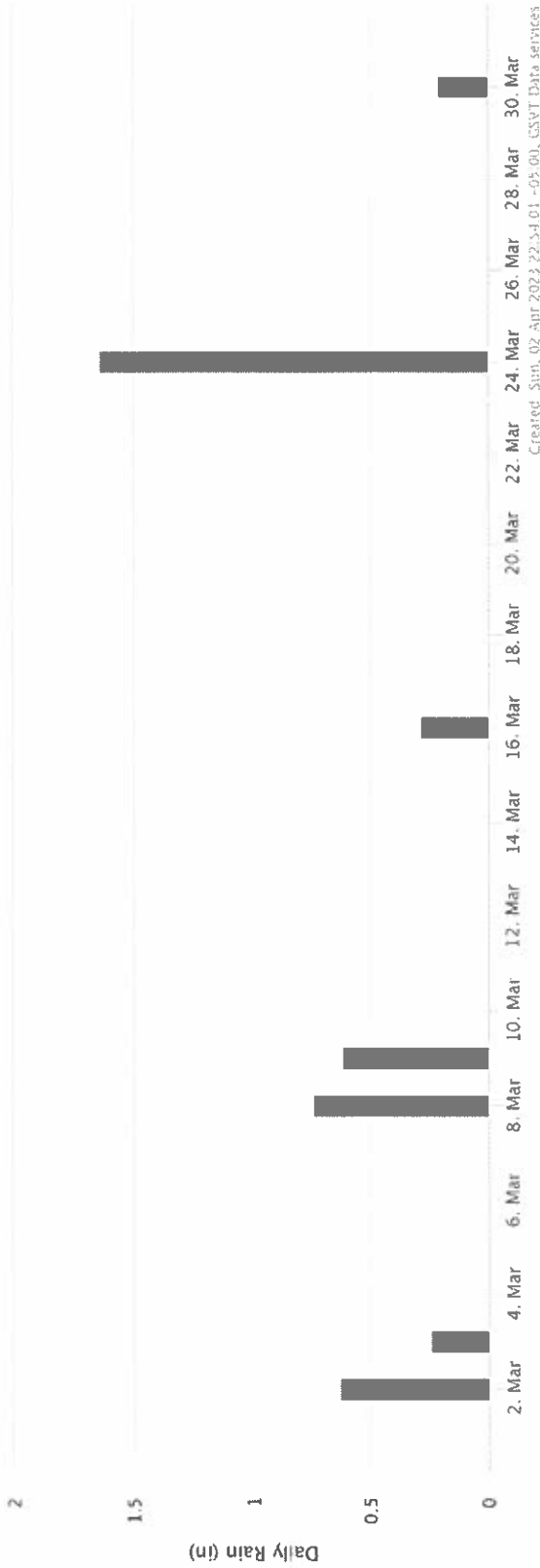
Date	Daily Total Rain (in)
1/1/2023	0
1/2/2023	0
1/3/2023	0
1/4/2023	0
1/5/2023	0
1/6/2023	0
1/7/2023	0
1/8/2023	0
1/9/2023	0
1/10/2023	0

1/11/2023	0
1/12/2023	0
1/13/2023	0
1/14/2023	0
1/15/2023	0
1/16/2023	0
1/17/2023	0
1/18/2023	0.02
1/19/2023	0
1/20/2023	0
1/21/2023	0.01

1/22/2023	0
1/23/2023	0
1/24/2023	0.61
1/25/2023	1.26
1/26/2023	0
1/27/2023	0
1/28/2023	0
1/29/2023	0
1/30/2023	0
1/31/2023	0

# Martin Marietta Mill Creek Limestone Weather - Daily Total Rain

Total Rain: 4.39 (in)



Created: Sun, 02 Apr 2023 22:54:01 -05:00, GSVT Data services

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Date	Daily Rain (in)
3/1/2023	0
3/2/2023	0.63
3/3/2023	0.25
3/4/2023	0
3/5/2023	0
3/6/2023	0
3/7/2023	0
3/8/2023	0.74
3/9/2023	0.62
3/10/2023	0
3/11/2023	0
3/12/2023	0

3/13/2023	0
3/14/2023	0
3/15/2023	0
3/16/2023	0.29
3/17/2023	0
3/18/2023	0
3/19/2023	0
3/20/2023	0
3/21/2023	0.01
3/22/2023	0
3/23/2023	0
3/24/2023	1.64
3/25/2023	0

3/26/2023	0
3/27/2023	0
3/28/2023	0
3/29/2023	0
3/30/2023	0.21
3/31/2023	0

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Date	Reference ET, Short (in.)	Reference ET, Tall (in.)	Cool Season Grass ET (in.)	Warm Season Grass ET (in.)	Pan Evapotran spiration (in.)
12/31/2022	0.08	0.12	0.07	0.05	0.1
1/1/2023	0.1	0.15	0.09	0.06	0.12
1/2/2023	0.04	0.05	0.04	0.02	0.05
1/3/2023	0.07	0.11	0.07	0.04	0.1
1/4/2023	0.05	0.08	0.05	0.03	0.07
1/5/2023	0.07	0.12	0.07	0.05	0.1
1/6/2023	0.08	0.13	0.08	0.05	0.11
1/7/2023	0.07	0.1	0.06	0.04	0.09
1/8/2023	0.07	0.11	0.07	0.04	0.09
1/9/2023	0.08	0.13	0.08	0.05	0.11
1/10/2023	0.11	0.17	0.1	0.07	0.13
1/11/2023	0.15	0.24	0.14	0.09	0.21
1/12/2023	0.13	0.2	0.12	0.08	0.19
1/13/2023	0.07	0.1	0.06	0.04	0.08
1/14/2023	0.09	0.15	0.09	0.06	0.13
1/15/2023	0.1	0.15	0.09	0.06	0.13
1/16/2023	0.12	0.18	0.11	0.07	0.16
1/17/2023	0.06	0.08	0.05	0.04	0.07
1/18/2023	0.12	0.19	0.11	0.07	0.17
1/19/2023	0.08	0.13	0.08	0.05	0.11
1/20/2023	0.07	0.1	0.06	0.04	0.09
1/21/2023	0.05	0.08	0.05	0.03	0.07
1/22/2023	0.04	0.07	0.04	0.03	0.06
1/23/2023	0.05	0.07	0.05	0.03	0.06
1/24/2023	0.03	0.04	0.03	0.02	0.04
1/25/2023	0.03	0.04	0.03	0.02	0.03
1/26/2023	0.05	0.08	0.05	0.03	0.07
1/27/2023	0.1	0.16	0.1	0.07	0.14
1/28/2023	0.05	0.07	0.05	0.03	0.06
1/29/2023	0.06	0.09	0.05	0.03	0.08
1/30/2023	0.02	0.03	0.02	0.01	0.02
1/31/2023	0.03	0.04	0.03	0.02	0.04
2/1/2023	0.03	0.05	0.03	0.02	0.04
2/2/2023	0.02	0.03	0.02	0.01	0.03
2/3/2023	0.06	0.09	0.06	0.04	0.08
2/4/2023	0.07	0.11	0.07	0.05	0.09
2/5/2023	0.08	0.1	0.07	0.05	0.09
2/6/2023	0.08	0.12	0.08	0.05	0.11
2/7/2023	0.06	0.09	0.06	0.04	0.09
2/8/2023	0.01	0.01	0.01	0.01	0.01
2/9/2023	0.07	0.09	0.06	0.04	0.08
2/10/2023	0.05	0.08	0.05	0.03	0.07
2/11/2023	0.08	0.11	0.07	0.05	0.09

2/12/2023	0.11	0.16	0.1	0.07	0.14
2/13/2023	0.1	0.14	0.09	0.06	0.13
2/14/2023	0.14	0.21	0.13	0.09	0.2
2/15/2023	0.14	0.21	0.13	0.09	0.19
2/16/2023	0.09	0.13	0.08	0.05	0.13
2/17/2023	0.09	0.12	0.08	0.05	0.11
2/18/2023	0.07	0.1	0.06	0.04	0.09
2/19/2023	0.15	0.23	0.14	0.09	0.21
2/20/2023	0.17	0.26	0.16	0.1	0.24
2/21/2023	0.18	0.28	0.17	0.11	0.25
2/22/2023	0.16	0.23	0.15	0.1	0.22
2/23/2023	0.14	0.22	0.13	0.09	0.21
2/24/2023	0.05	0.08	0.05	0.03	0.08
2/25/2023	0.04	0.06	0.04	0.03	0.05
2/26/2023	0.08	0.12	0.07	0.05	0.1
2/27/2023	0.16	0.23	0.15	0.1	0.22
2/28/2023	0.16	0.23	0.15	0.1	0.21
3/1/2023	0.09	0.14	0.09	0.06	0.12
3/2/2023	0.09	0.13	0.08	0.05	0.11
3/3/2023	0.11	0.16	0.11	0.07	0.15
3/4/2023	0.12	0.17	0.11	0.08	0.16
3/5/2023	0.18	0.26	0.17	0.11	0.25
3/6/2023	0.18	0.27	0.17	0.11	0.25
3/7/2023	0.12	0.18	0.11	0.07	0.16
3/8/2023	0.03	0.04	0.03	0.02	0.04
3/9/2023	0.02	0.02	0.02	0.01	0.03
3/10/2023	0.1	0.13	0.09	0.06	0.13
3/11/2023	0.14	0.2	0.13	0.09	0.19
3/12/2023	0.12	0.17	0.11	0.07	0.17
3/13/2023	0.12	0.17	0.11	0.07	0.16
3/14/2023	0.08	0.12	0.08	0.05	0.11
3/15/2023	0.15	0.21	0.13	0.09	0.2
3/16/2023	0.08	0.12	0.07	0.05	0.11
3/17/2023	0.13	0.18	0.12	0.08	0.19
3/18/2023	0.12	0.16	0.11	0.07	0.17
3/19/2023	0.11	0.14	0.1	0.07	0.14
3/20/2023	0.12	0.18	0.11	0.07	0.17
3/21/2023	0.1	0.14	0.09	0.06	0.13
3/22/2023	0.17	0.24	0.16	0.1	0.23
3/23/2023	0.1	0.15	0.09	0.06	0.13
3/24/2023	0.06	0.07	0.05	0.04	0.07
3/25/2023	0.12	0.15	0.11	0.08	0.15
3/26/2023	0.19	0.28	0.18	0.12	0.28
3/27/2023	0.16	0.23	0.15	0.1	0.23
3/28/2023	0.15	0.21	0.14	0.09	0.22
3/29/2023	0.13	0.18	0.13	0.08	0.18
3/30/2023	0.07	0.1	0.07	0.05	0.09

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3/31/2023	0.26	0.38	0.24	0.16	0.39
4/1/2023	0.18	0.25	0.17	0.11	0.25
4/2/2023	0.16	0.22	0.15	0.1	0.2
4/3/2023	0.23	0.32	0.22	0.14	0.31
4/4/2023	0.1	0.14	0.1	0.06	0.14
4/5/2023	0.21	0.31	0.2	0.13	0.31
4/6/2023	0.15	0.22	0.14	0.09	0.22
4/7/2023	0.15	0.2	0.14	0.09	0.2
4/8/2023	0.16	0.19	0.14	0.1	0.2
4/9/2023	0.12	0.15	0.12	0.08	0.15
4/10/2023	0.12	0.14	0.11	0.08	0.15
4/11/2023	0.14	0.17	0.13	0.09	0.17
4/12/2023	0.16	0.2	0.15	0.1	0.2
4/13/2023	0.17	0.21	0.16	0.11	0.22
4/14/2023	0.18	0.23	0.16	0.11	0.24
4/15/2023	0.16	0.21	0.15	0.1	0.22
4/16/2023	0.17	0.23	0.16	0.11	0.23
4/17/2023	0.2	0.28	0.19	0.13	0.27
4/18/2023	0.14	0.2	0.13	0.09	0.19
4/19/2023	0.16	0.23	0.15	0.1	0.23
4/20/2023	0.13	0.18	0.12	0.08	0.18
4/21/2023	0.18	0.25	0.17	0.11	0.25
4/22/2023	0.12	0.18	0.12	0.08	0.17
4/23/2023	0.08	0.1	0.07	0.05	0.1
4/24/2023	0.12	0.15	0.11	0.08	0.15
4/25/2023	0.08	0.11	0.07	0.05	0.1
4/26/2023	0.05	0.06	0.04	0.03	0.06
4/27/2023	0.06	0.07	0.06	0.04	0.07
4/28/2023	0.08	0.1	0.08	0.05	0.1
4/29/2023	0.19	0.26	0.18	0.12	0.26
4/30/2023	0.19	0.25	0.18	0.12	0.26
5/1/2023	0.16	0.19	0.15	0.1	0.2
5/2/2023	0.16	0.19	0.15	0.1	0.2
5/3/2023	0.1	0.12	0.09	0.06	0.12
5/4/2023	0.11	0.14	0.1	0.07	0.13
5/5/2023	0.18	0.22	0.17	0.11	0.23
5/6/2023	0.2	0.25	0.19	0.13	0.27
5/7/2023	0.13	0.16	0.12	0.08	0.17
5/8/2023	0.18	0.22	0.17	0.11	0.23
5/9/2023	0.18	0.21	0.17	0.11	0.22
5/10/2023	0.13	0.15	0.12	0.08	0.16
5/11/2023	0.14	0.17	0.13	0.09	0.17
5/12/2023	0.15	0.2	0.14	0.09	0.2
5/13/2023	0.2	0.24	0.19	0.13	0.25
5/14/2023	0.07	0.08	0.07	0.05	0.09
5/15/2023	0.17	0.19	0.15	0.1	0.2
5/16/2023	0.12	0.14	0.11	0.07	0.15

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Quarter Summary	1st Qtr
Total Tons Shipped	1,130,000
Total Acre Feet	24.09
Average Moisture %	2.90%

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Oklahoma Water Resources Board  
January Report 2023

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

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 HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in)		WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES						
	MAX	MIN	AVG		MAX	MIN		STN	MSL	DIR	AVG	MAX	SOD	BARE	MAX	MIN				
1	77	43	58.2	46.2	5	0	94	32	68	0.00	28.87	29.81	SSE	7.0	20.5	10.52	48.9	49.4	57	44
2	71	53	63.9	60.1	3	0	99	48	88	0.01	28.81	29.74	S	8.3	23.2	2.49	52.3	55.9	60	50
3	59	36	51.7	34.1	17	0	79	37	52	0.00	28.87	29.80	WSW	7.0	18.8	10.21	51.7	51.0	56	45
4	54	28	40.4	27.4	24	0	93	33	63	0.00	29.09	30.03	NW	4.5	14.3	12.02	48.2	44.5	52	38
5	58	30	41.8	24.6	21	0	82	23	55	0.00	29.29	30.23	NNW	5.5	17.2	12.11	46.7	42.8	50	37
6	67	30	50.4	40.1	17	0	98	47	69	0.00	29.14	30.09	S	8.8	30.9	10.21	47.3	45.5	54	39
7	60	38	49.6	38.2	16	0	99	39	67	0.00	29.22	30.17	NNW	7.0	18.1	10.02	48.9	47.6	52	43
8	58	30	42.1	29.6	21	0	90	33	64	0.00	29.33	30.27	N	5.4	17.0	12.36	47.9	45.1	54	38
9	65	27	45.3	34.0	19	0	95	36	69	0.00	29.18	30.13	S	6.5	24.9	12.00	46.9	44.1	52	38
10	77	32	53.6	38.0	10	0	98	22	63	0.00	28.94	29.88	SSW	6.4	26.5	11.34	47.9	46.6	55	39
11	78	39	60.6	31.9	6	0	82	16	37	0.00	28.81	29.75	WSW	8.2	27.9	9.86	49.1	48.5	55	43
12	58	36	44.3	29.5	18	0	71	31	57	0.00	29.25	30.19	NNW	15.2	42.6	11.71	48.6	45.7	50	41
13	54	26	38.7	25.6	25	0	88	32	63	0.00	29.43	30.38	NNW	5.2	15.6	12.71	46.1	42.3	51	37
14	58	26	42.3	25.9	23	0	90	31	55	0.00	29.23	30.17	SSE	9.2	26.2	11.76	45.2	42.0	50	36
15	66	39	53.7	44.4	13	0	92	55	71	0.00	28.89	29.82	SSE	14.3	32.1	9.45	47.2	47.0	54	41
16	71	41	60.4	44.1	9	0	82	26	59	0.00	28.75	29.69	SSW	10.8	29.5	9.82	51.6	54.8	62	50
17	68	36	52.0	40.0	13	0	90	35	66	0.00	28.80	29.73	SSE	3.6	12.6	7.90	50.4	50.8	58	44
18	66	48	57.1	37.6	8	0	93	19	53	0.03	28.77	29.70	SW	10.0	46.4	9.31	51.8	53.3	59	48
19	53	33	43.1	26.3	22	0	84	36	53	0.00	29.10	30.05	WNW	7.8	24.9	13.04	48.8	47.9	56	42
20	59	30	45.5	29.1	21	0	93	30	57	0.00	29.26	30.20	E	4.6	17.5	13.35	48.2	48.1	58	41
21	53	35	45.2	35.8	21	0	98	50	70	0.04	29.04	29.98	SE	6.8	21.1	6.81	48.5	47.3	52	43
22	46	27	38.5	29.6	29	0	89	49	71	0.00	29.05	29.99	NW	8.7	22.6	6.27	46.8	43.4	48	39
23	49	20	35.7	25.0	30	0	94	37	68	0.00	29.29	30.24	ENE	4.7	14.9	13.93	44.8	42.1	52	35
24	41	32	36.2	32.4	28	0	99	58	87	0.87	29.07	30.01	E	10.0	25.1	1.06	44.5	40.2	43	36
25	41	29	34.9	31.9	30	0	97	73	89	0.29	29.13	30.08	NW	7.3	19.6	5.97	43.0	37.9	42	36
26	50	23	36.7	28.1	29	0	96	44	73	0.01	29.35	30.29	WSW	6.3	21.6	14.32	42.7	39.2	47	35
27	60	29	44.0	27.8	21	0	84	28	56	0.00	29.21	30.16	SW	10.2	29.7	14.31	43.4	40.7	49	35
28	56	41	48.1	42.9	17	0	99	58	83	0.00	29.03	29.97	S	9.2	27.7	4.24	45.4	44.1	49	39
29	50	23	31.3	30.1	29	0	99	90	95	0.00	29.18	30.12	N	12.7	27.5	2.23	44.9	40.4	46	36
30	24	21	22.4	19.2	43	0	95	74	87	0.00	29.36	30.31	N	14.6	26.0	1.85	40.6	34.6	36	34
31	25	22	23.1	16.2	42	0	87	63	75	0.00	29.41	30.36	N	12.1	25.4	2.88	38.5	33.0	34	32
	57	32	44.9	33.1	<- Monthly Averages ->		29.10	30.04	29.10	30.04	N	8.3	46.4	9.23	47.0	45.0	51	40		

Temperature - Highest: 78 Lowest: 20	Degree Days - Total HDD: 629 Total CDD: 0	Number of Days With: Tmax ≥ 90: 0 Tmax ≤ 32: 2 Tmin ≤ 32: 18 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 6 Rainfall ≥ 0.10 inch: 2 Avg Wind Speed ≥ 10 mph: 9 Max Wind Speed ≥ 30 mph: 4
Rainfall: Monthly Total: 1.25 in. Greatest 24 Hr: 0.87 in.	Humidity - Highest: 99 Lowest: 16		

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Monthly data generated on Friday, February 17, 2023 at 10:49 UTC  
\* Denotes incomplete record



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Oklahoma Water Resources Board

MESONET CLIMATOLOGICAL DATA SUMMARY										February 2023				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 )		DEWPT		DEG DAYS		HDD CDD		HUMIDITY (%)		RAIN (in)		PRESSURE (in)		WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES				
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG	(in)	STN	MSL	DIR	AVG	MAX	SOD	BARE	MAX	MIN				
1	30	23	26.1	17.5	39	0	85	61	70	0.00	29.39	30.34	NNE	5.7	15.1	37.5	32.0	32	32				
2	34	25	29.9	25.2	36	0	97	66	83	0.01	29.37	30.32	N	4.6	12.3	38.3	32.4	33	32				
3	50	21	35.0	25.8	29	0	96	40	71	0.19	29.55	30.50	N	5.9	19.2	39.3	32.6	33	32				
4	57	31	42.5	35.8	21	0	93	55	78	0.08	29.31	30.26	S	9.4	28.0	41.1	38.0	46	33				
5	67	28	47.9	40.3	17	0	99	45	78	0.00	29.17	30.12	SE	4.3	15.2	44.0	44.1	54	35				
6	69	45	56.5	51.0	8	0	99	62	83	0.01	28.98	29.92	S	11.0	35.3	46.7	48.5	55	42				
7	58	43	47.2	44.9	14	0	97	83	92	0.23	29.13	30.07	NNE	14.6	32.9	47.9	48.1	51	46				
8	45	35	42.2	40.9	25	0	97	90	95	0.83	29.02	29.96	W	11.5	27.0	46.5	45.3	47	43				
9	56	30	41.8	35.9	22	0	99	52	82	0.01	29.15	30.09	WSW	6.0	21.1	46.1	45.6	55	39				
10	43	32	38.3	29.9	27	0	95	58	72	0.00	29.41	30.36	NNW	10.8	27.8	45.8	42.0	45	39				
11	55	30	38.6	30.7	23	0	94	40	75	0.00	29.36	30.31	N	5.8	16.2	45.1	42.4	52	36				
12	65	25	44.8	28.8	20	0	96	22	61	0.00	29.14	30.08	SSW	6.8	22.8	45.2	43.3	52	36				
13	63	34	50.5	33.2	16	0	88	31	54	0.00	29.00	29.94	SE	6.0	16.2	46.5	45.6	54	38				
14	67	49	56.6	43.1	7	0	98	31	65	0.58	28.65	29.58	SW	13.9	47.3	49.4	51.3	57	48				
15	75	38	58.7	44.0	9	0	92	31	61	0.00	28.79	29.73	SSE	9.8	35.5	50.0	51.6	59	43				
16	45	31	37.0	25.7	27	0	86	45	64	0.00	29.18	30.13	NNW	15.2	30.2	49.4	46.1	55	39				
17	49	27	35.6	19.5	27	0	83	23	56	0.00	29.50	30.45	NNW	6.1	26.5	45.8	41.2	51	36				
18	50	23	37.9	24.4	29	0	93	34	61	0.00	29.36	30.31	S	8.2	27.3	44.0	39.0	43	36				
19	71	37	52.9	33.5	11	0	74	27	50	0.00	29.09	30.03	S	10.1	22.5	45.8	44.3	53	37				
20	74	55	63.6	43.5	0	0	74	33	49	0.00	28.89	29.82	SW	11.4	30.6	50.1	51.7	58	48				
21	82	52	65.1	48.3	0	2	77	29	57	0.00	28.71	29.64	S	13.5	38.0	52.1	54.1	60	49				
22	74	54	64.4	50.6	1	0	98	30	65	0.81	28.63	29.56	S	11.1	35.2	56.2	59.8	65	55				
23	59	31	40.5	25.9	20	0	77	39	57	0.00	29.17	30.12	NNE	13.6	31.1	51.8	48.0	54	42				
24	38	32	35.3	25.4	30	0	79	53	67	0.00	29.37	30.32	NNE	11.6	23.1	47.5	40.8	43	39				
25	45	36	40.5	33.2	24	0	88	69	75	0.00	29.31	30.26	N	4.9	13.4	47.4	43.0	47	40				
26	70	44	51.7	50.3	8	0	100	64	95	0.23	28.92	29.86	SSE	9.5	44.9	49.2	48.6	55	45				
27	71	44	57.3	35.4	8	0	83	27	46	0.00	28.80	29.73	WSW	8.0	25.4	52.3	53.1	62	45				
28	79	35	57.9	34.3	8	0	95	15	50	0.00	28.81	29.75	WSW	6.7	23.2	52.3	52.0	61	44				
	59	35	46.3	34.9	<- Monthly Averages ->					29.11	30.06	S	9.1	47.3	11.11	46.9	45.2	51	40				
Temperature - Highest: 82		Lowest: 21		Degree Days - Total HDD: 508		Total CDD: 2		Number of Days With:															
Rainfall: Monthly Total: 2.98 in.		Greatest 24 Hr: 0.83 in.		Humidity - Highest: 100		Lowest: 15		Tmax >= 90: 0		Tmax <= 32: 1		Tmin <= 32: 14		Tmin <= 0: 0		Rainfall >= 0.01 inch: 10		Rainfall >= 0.10 inch: 6		Avg Wind Speed >= 10 mph: 12		Max Wind Speed >= 30 mph: 10	

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 Monthly data generated on Sunday, April 30, 2023 at 18:46 UTC  
 \* Denotes incomplete record

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

Oklahoma Water Resources Board  
 March  
 Nearest City: 6.0 N Tishomingo  
 Longitude: 96-40-44

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

DAY	TEMPERATURE ( F )		DEWPT	DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in)		WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES			
	MAX	MIN			AVG	MIN		MAX	STN	MSL	DIR	AVG	MAX	SOD	BARE	MAX	MIN
1	64	52	57.2	42.3	7	0	0.00	28.83	29.76	NNE	6.8	20.2	5.51	52.5	51.5	54	49
2	71	48	56.8	50.8	6	0	0.97	28.64	29.57	ENE	9.0	31.6	3.98	53.5	53.9	60	50
3	61	38	48.9	38.8	15	0	0.29	28.72	29.66	NW	9.3	31.3	18.33	53.3	54.1	62	49
4	70	37	53.7	43.3	12	0	0.00	28.98	29.92	SSE	7.1	24.0	19.24	53.0	53.0	62	45
5	75	46	61.7	46.2	4	0	0.00	29.02	29.96	S	12.7	31.6	18.71	54.6	54.7	62	48
6	82	55	65.7	49.5	0	3	0.00	29.00	29.94	S	8.8	20.9	17.88	57.3	58.8	68	53
7	75	50	60.0	51.3	3	0	0.00	29.08	30.02	NNE	9.0	20.4	8.24	57.6	57.8	64	53
8	54	46	50.6	47.9	15	0	0.73	29.17	30.12	N	8.0	25.9	3.98	55.8	54.2	57	52
9	55	48	52.8	51.5	13	0	0.56	29.13	30.07	N	6.5	22.3	2.27	55.2	54.4	56	53
10	59	39	48.9	40.7	16	0	0.00	29.16	30.10	NNE	7.0	21.4	19.39	55.0	54.4	64	47
11	80	51	62.0	56.9	0	0	0.01	28.76	29.69	SSE	12.3	30.5	10.64	57.1	58.1	66	52
12	57	43	49.9	39.0	15	0	0.00	29.03	29.97	NNE	13.9	28.3	18.39	57.3	55.0	61	50
13	51	37	42.6	25.9	21	0	0.00	29.31	30.26	NNE	10.5	22.9	15.53	54.0	48.3	56	43
14	54	36	45.8	30.7	20	0	0.00	29.34	30.29	ESE	5.5	15.9	10.65	52.6	47.8	53	42
15	66	39	52.7	38.0	13	0	0.69	29.14	30.08	SSE	12.5	31.0	15.43	52.4	48.9	56	42
16	67	39	54.7	48.6	12	0	0.00	28.88	29.82	S	17.0	39.1	2.32	53.9	53.1	59	48
17	50	32	40.8	25.0	24	0	0.00	29.23	30.18	N	13.2	33.1	21.80	50.7	48.4	57	42
18	47	30	38.0	20.9	26	0	0.00	29.41	30.36	N	11.7	29.2	22.28	49.8	44.3	52	39
19	50	24	36.8	15.3	28	0	0.00	29.50	30.45	SE	5.4	17.5	22.69	49.4	44.1	56	36
20	55	31	44.4	26.9	22	0	0.00	29.23	30.17	SSE	13.4	34.1	12.09	48.7	43.3	49	37
21	66	45	54.5	49.0	10	0	0.03	29.02	29.96	SSE	13.9	27.3	8.15	50.5	49.5	56	44
22	81	64	71.0	62.9	0	8	0.00	28.98	29.92	S	15.6	31.3	14.16	58.1	61.7	68	57
23	80	57	68.7	62.3	0	3	0.00	28.93	29.87	S	12.5	35.2	6.17	60.7	63.2	66	61
24	60	45	52.2	49.9	13	0	2.04	28.79	29.72	N	8.1	28.0	9.08	58.2	58.0	61	55
25	68	37	53.2	41.8	12	0	0.00	28.88	29.81	NW	4.6	20.8	22.34	57.5	57.3	68	49
26	68	45	54.5	36.5	9	0	0.00	28.99	29.93	NNE	12.0	27.1	22.47	58.0	55.2	65	47
27	65	38	51.8	34.7	14	0	0.00	29.15	30.09	NNE	10.1	24.9	22.50	57.4	53.8	64	45
28	58	41	49.4	34.3	15	0	0.00	29.36	30.31	N	11.8	30.6	22.92	57.3	52.7	61	46
29	66	36	52.8	40.4	14	0	0.00	29.22	30.17	SSE	8.8	25.6	20.37	56.6	53.0	62	45
30	68	55	60.6	55.1	4	0	0.24	28.99	29.93	SE	9.7	26.8	3.78	57.6	56.3	60	53
31	79	55	69.5	45.7	0	2	0.00	28.85	29.79	WSW	16.6	47.2	21.98	61.5	62.2	68	54
		65	43	53.6	42.0	<- Monthly Averages ->		29.06	30.00	N	10.4	47.2	14.30	55.1	53.6	60	48

Temperature - Highest: 82 Lowest: 24	Degree Days - Total HDD: 362 Total CDD: 17	Number of Days With: Tmax ≥ 90: 0 Tmax ≤ 32: 0 Tmin ≤ 32: 4 Tmin ≥ 0: 0	Rainfall ≥ 0.01 inch: 9 Rainfall ≥ 0.10 inch: 7 Avg Wind Speed ≥ 10 mph: 16 Max Wind Speed ≥ 30 mph: 12
Rainfall: Monthly Total: 5.56 in. Greatest 24 Hr: 2.04 in.	Humidity - Highest: 99 Lowest: 13		

© 1993, 2023 Oklahoma Climatological Survey  
 Monthly data generated on Wednesday, May 31, 2023 at 18:50 UTC  
 \* Denotes incomplete record



**CC Environmental, LLC**

**RECEIVED**

JUN 29 2023

Oklahoma Water Resources Board

June 29, 2023

**VIA EMAIL**

Mr. Matt Cogburn  
OWRB – Planning & Management Division  
3800 N Classen Blvd  
Oklahoma City, OK 73118

***Re: Arbuckle Aggregates' Mill Creek Quarry  
Quarterly Report – 1st Quarter 2023***

Mr. Cogburn:

Please let this letter serve as a status update for compliance purposes with 82 O.S. §1020.2(E)(1). Arbuckle Aggregates, LLC did not produce any mine products or encounter pit water during the first quarter of 2023.

Please feel free to contact me (405/761-1225) if you need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'G. Canty'.

Geoffrey A. Canty,  
Consultant for Arbuckle Aggregates

cc: Mr. Pete Dawson  
Ms. Elizabeth Nichols  
File