



Jesse Martindale
Sr. Environmental Engineer

December 13, 2024

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

RECEIVED
DEC 13 2024
OKLAHOMA WATER RESOURCES BOARD

Re: Martin Marietta Davis Quarry 2024 Q3 Report

Dear Mr. Tutkowski:

Attached please find the Q3 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,

Jesse Martindale
Jesse Martindale
Sr. Environmental Engineer

North Texas/Oklahoma District
1503 LBJ Freeway Suite 400, Dallas, Texas 75234
t. (972) 647-3742 f. (972) 647-3363 m. (817) 307-9128 e. jesse.martindale@martinmarietta.com
www.martinmarietta.com

MM Davis Quarry 2024 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-24	24.35	13.23	13.23	37.58	N/A	24.35	0.00	5.48	0.00	0.00
February-24	5.55	7.55	7.55	13.11	N/A	5.55	0.00	3.80	0.00	0.00
March-24	2.11	7.93	7.93	10.03	N/A	2.11	0.00	3.06	0.00	0.00
1st QTR Totals	32.01	28.72	28.72	60.72	0.00	32.01	0.00	12.35	0.00	0.00
April-24	-61.56	92.98	92.98	31.42	N/A	-61.56	0.00	4.02	0.00	0.00
May-24	-20.91	34.15	34.15	13.24	N/A	-20.91	0.00	37.44	0.00	0.00
June-24	17.27	28.85	28.85	46.12	N/A	17.27	0.00	5.01	0.00	0.00
2nd QTR Totals	-65.20	155.98	155.98	90.78	0.00	-65.20	0.00	46.47	0.00	0.00
July-24	-7.25	12.89	12.89	5.64	N/A	-7.25	0.00	5.73	0.00	0.00
August-24	-2.28	3.42	3.42	1.14	N/A	-2.28	0.00	7.56	0.00	0.00
September-24	-7.63	7.39	7.39	-0.24	N/A	-7.63	0.00	6.57	0.00	0.00
3rd QTR Totals	-17.16	23.71	23.71	6.55	0.00	-17.16	0.00	19.86	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

Davis Water Balance

	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
Monitoring Period, Days		31	28	31	30	31	30	31	31	30
Monthly Production, tons	136,592	94,734	127,943	173,248	179,019	115,635	135,437	121,052	129,951	143,726
Product Moisture Content		3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%
Water Truck Loads		0	28	13	33	28	74	86	158	109
Month End Water Elevs.										
1) Freshwater pond, depth to water	15.16725	13.74254	17.05114	15.769906	21.440468	15.306578	15.845394	15.43204	16.861792	16.166412
2) Pit Sump, depth to water	46.13844	51.65115	52.3859	53.20305	56.280075	52.802555	59.25419	58.88673	57.051174	55.60832
Pond Surface Acres										
1) Freshwater pond		1.0	1.0	1.0	1.1	1.1	1.1	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
Total surface acres		6.794314	6.794314	6.794313535	6.85431354	6.8543135	6.854313535	6.794314	6.7943135	6.7943135
Pond Water Volume Change										
1) Freshwater pond		-1.425	3.309	-1.281	6.011	-6.502	0.571	-0.413	1.430	-0.695
2) Pit Sump		31.942	4.257	4.735	17.829	-20.150	37.383	-2.129	-10.636	-8.360
3) Change in settling pond storage		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Net Volume Change		30.518	7.566	3.454	23.840	-26.652	37.954	-2.543	-9.206	-9.056
Water Inputs, ac-ft										
Rural Water		0.044	0.037	0.028	0.024	0.074	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
Well Water		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Precipitation		13.234	7.553	7.928	92.981	34.146	28.853	12.892	3.422	7.393
Total Water Input		13.279	7.590	7.956	93.005	34.221	28.853	12.892	3.422	7.393
Water Usage, ac-ft										
Product moisture content		2.440	3.295	4.462	4.610	2.978	3.488	3.117	3.347	3.701
Haul road dust control		0.000	0.773	0.359	0.911	0.773	2.044	2.375	4.364	3.011
Evaporation losses		0.828	1.508	1.788	2.082	2.392	2.634	2.692	2.638	2.106
Misc usage		3.84	-	-	-	33.82	-	-	-	-
Total Water Usage, Ac-ft		7.111	5.576	6.609	7.604	39.967	8.166	8.185	10.348	8.818
Net Water Input		6.168	2.014	1.347	85.401	-5.746	20.687	4.707	-6.927	-1.425
emergency storage of precipitation and runoff, ac-ft										
Groundwater Inflow		24.350	5.552	2.106	-61.561	-20.906	17.267	-7.250	-2.279	-7.631
Groundwater Inflow, Avg Ac-ft/Day		0.785	0.198	0.068	-2.052	-0.674	0.576	-0.234	-0.074	-0.254
Groundwater Inflow, Avg Gallons/Day		255,951	64,608	22,138	-668,658	-219,747	187,547	-76,206	-23,958	-82,884

Consumptive Use

	January	February	March	April	May	June	July	August	September
Water Truck Usage	-	0.77	0.36	0.91	0.77	2.04	2.38	4.36	3.01
Moisture Content of Product Shipped	1.64	3.03	2.71	3.11	2.85	2.96	3.35	3.20	3.56
Misc on site use	-	-	-	-	-	-	-	-	-
Misc off site	3.84	-	-	-	33.82	-	-	-	-
Total	5.48	3.80	3.06	4.02	37.44	5.01	5.73	7.56	6.57

	January	February	March	April	May	June	July	August	September
Shipped Tons									
Base	24,368	43,442	37,707	42,608	28,408	21,143	19,526	18,669	27,569
Coarse Aggregate	40,165	71,882	80,801	84,289	81,519	98,929	90,340	87,594	106,025
Fine Aggregate	12,687	25,500	16,713	23,296	27,389	28,853	44,971	42,248	38,464
Total	77,220	140,824	135,222	150,193	137,316	148,925	154,838	148,510	172,058
Moisture Shipped	1.64	3.03	2.71	3.11	2.85	2.96	3.35	3.20	3.56

July 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-Jul	0.00	0.00	0.00	0.18
2-Jul	0.00	0.00	0.00	0.21
3-Jul	0.00	0.00	0.00	0.19
4-Jul	0.42	0.42	0.00	0.18
5-Jul	0.13	0.13	0.00	0.05
6-Jul	0.00	0.00	0.00	0.16
7-Jul	1.01	1.01	0.00	0.14
8-Jul	0.41	0.41	0.00	0.12
9-Jul	0.00	0.00	0.00	0.15
10-Jul	0.00	0.00	0.00	0.18
11-Jul	0.00	0.00	0.00	0.17
12-Jul	0.00	0.00	0.00	0.18
13-Jul	0.00	0.00	0.00	0.17
14-Jul	0.00	0.00	0.00	0.19
15-Jul	0.00	0.00	0.00	0.20
16-Jul	0.00	0.00	0.00	0.14
17-Jul	0.00	0.00	0.00	0.12
18-Jul	0.00	0.00	0.00	0.16
19-Jul	0.00	0.00	0.00	0.16
20-Jul	0.04	0.04	0.00	0.11
21-Jul	0.10	0.10	0.00	0.10
22-Jul	0.00	0.00	0.00	0.10
23-Jul	0.00	0.00	0.00	0.14
24-Jul	0.00	0.00	0.00	0.15
25-Jul	0.00	0.00	0.00	0.15
26-Jul	0.00	0.00	0.00	0.14
27-Jul	0.00	0.00	0.00	0.13
28-Jul	0.00	0.00	0.00	0.17
29-Jul	0.00	0.00	0.00	0.18
30-Jul	0.00	0.00	0.00	0.18
31-Jul	0.00	0.00	0.00	0.16
		2.11	0.00	
Volume, ac-ft		12.89	0.00	4.755
Total Vol, ac-ft		12.89		

August 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-Aug	0.00	0.00	0.00	0.18
2-Aug	0.00	0.00	0.00	0.15
3-Aug	0.00	0.00	0.00	0.17
4-Aug	0.00	0.00	0.00	0.15
5-Aug	0.00	0.00	0.00	0.15
6-Aug	0.00	0.00	0.00	0.18
7-Aug	0.00	0.00	0.00	0.17
8-Aug	0.00	0.00	0.00	0.17
9-Aug	0.05	0.05	0.00	0.14
10-Aug	0.02	0.02	0.00	0.08
11-Aug	0.45	0.45	0.00	0.10
12-Aug	0.04	0.04	0.00	0.11
13-Aug	0.00	0.00	0.00	0.15
14-Aug	0.00	0.00	0.00	0.18
15-Aug	0.00	0.00	0.00	0.16
16-Aug	0.00	0.00	0.00	0.16
17-Aug	0.00	0.00	0.00	0.18
18-Aug	0.00	0.00	0.00	0.22
19-Aug	0.00	0.00	0.00	0.19
20-Aug	0.00	0.00	0.00	0.15
21-Aug	0.00	0.00	0.00	0.15
22-Aug	0.00	0.00	0.00	0.15
23-Aug	0.00	0.00	0.00	0.17
24-Aug	0.00	0.00	0.00	0.17
25-Aug	0.00	0.00	0.00	0.17
26-Aug	0.00	0.00	0.00	0.14
27-Aug	0.00	0.00	0.00	0.13
28-Aug	0.00	0.00	0.00	0.16
29-Aug	0.00	0.00	0.00	0.14
30-Aug	0.00	0.00	0.00	0.07
31-Aug	0.00	0.00	0.00	0.11
		0.56	0.00	
Volume, ac-ft		3.42	0.00	4.659
Total Vol, ac-ft		3.42		

September 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-Sep	0.02	0.02	0.00	0.10
2-Sep	0.00	0.00	0.00	0.09
3-Sep	0.00	0.00	0.00	0.07
4-Sep	0.00	0.00	0.00	0.09
5-Sep	0.00	0.00	0.00	0.13
6-Sep	0.00	0.00	0.00	0.13
7-Sep	0.00	0.00	0.00	0.13
8-Sep	0.00	0.00	0.00	0.14
9-Sep	0.00	0.00	0.00	0.15
10-Sep	0.00	0.00	0.00	0.16
11-Sep	0.00	0.00	0.00	0.11
12-Sep	0.00	0.00	0.00	0.13
13-Sep	0.00	0.00	0.00	0.14
14-Sep	0.00	0.00	0.00	0.13
15-Sep	0.00	0.00	0.00	0.13
16-Sep	0.00	0.00	0.00	0.14
17-Sep	0.00	0.00	0.00	0.10
18-Sep	0.00	0.00	0.00	0.13
19-Sep	0.00	0.00	0.00	0.16
20-Sep	0.00	0.00	0.00	0.17
21-Sep	0.00	0.00	0.00	0.15
22-Sep	1.07	1.07	0.00	0.10
23-Sep	0.11	0.11	0.00	0.03
24-Sep	0.01	0.01	0.00	0.12
25-Sep	0.00	0.00	0.00	0.12
26-Sep	0.00	0.00	0.00	0.13
27-Sep	0.00	0.00	0.00	0.13
28-Sep	0.00	0.00	0.00	0.13
29-Sep	0.00	0.00	0.00	0.14
30-Sep	0.00	0.00	0.00	0.14
		0.00	0.00	
		1.21	0.00	
Volume, ac-ft		7.39	0.00	3.72
Total Vol, ac-ft		7.39		

MESONET CLIMATOLOGICAL DATA SUMMARY										July 2024		Time Zone: Midnight-Midnight CST								
(SULP) Sulphur										Nearest City: 4.0 NNE Sulphur		County: Murray								
Latitude: 34-33-57										Longitude: 96-57-01		Elevation: 1050 feet								
DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN	PRESSURE (in)		WIND SPEED (mph)		SOLAR	4" SOIL TEMPERATURES				
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG	(in)	STN	MSL	DIR	AVG	MAX	(MJ/m2)	SOD	BARE	MAX	MIN
1	98	76	87.4	71.9	0	22	91	41	62	0.00	28.90	30.02	SSE	9.0	23.0	25.41	84.4	94.3	101	88
2	98	78	88.1	69.9	0	23	82	33	57	0.00	28.79	29.91	S	11.6	29.3	26.17	84.5	94.3	100	89
3	98	78	88.1	69.1	0	23	71	37	55	0.00	28.81	29.93	S	9.1	23.0	25.22	84.6	94.5	101	88
4	99	72	83.9	70.9	0	20	91	40	67	0.31	28.80	29.92	S	8.4	42.7	23.29	84.9	94.4	103	89
5	79	66	73.3	67.5	0	8	97	59	83	0.04	28.90	30.03	NNE	6.0	25.1	7.44	82.5	85.1	92	81
6	93	61	79.4	63.9	0	12	98	35	64	0.00	28.89	30.01	ESE	5.2	17.2	26.68	81.3	85.3	95	77
7	89	68	78.5	69.4	0	14	97	54	75	1.52	28.82	29.93	SE	10.4	25.9	18.36	81.1	85.2	89	82
8	89	68	74.5	68.9	0	14	98	51	84	0.67	28.82	29.94	NNE	5.9	24.5	16.62	80.7	80.8	86	77
9	89	67	76.7	67.8	0	13	99	44	78	0.00	28.85	29.96	NNW	4.2	17.3	23.92	81.1	80.6	86	76
10	93	67	81.0	67.4	0	15	98	37	68	0.01	28.90	30.02	NNE	3.1	12.2	25.72	81.6	83.8	93	76
11	95	73	84.2	68.6	0	19	86	36	62	0.00	28.90	30.02	S	7.5	19.1	24.99	82.3	87.9	97	80
12	93	74	84.0	67.8	0	19	80	40	60	0.00	28.94	30.06	S	8.6	18.6	25.14	82.7	89.8	97	83
13	92	73	82.8	69.0	0	18	87	44	65	0.00	29.00	30.12	S	8.4	20.5	25.82	82.9	90.4	98	83
14	94	75	84.4	71.9	0	19	91	46	68	0.00	28.94	30.06	S	8.2	20.3	25.31	83.4	91.5	99	85
15	96*	76*	85.9*	70.2*	0*	21*	78*	43*	61*	0.00*	28.83*	29.95*	S *	9.0*	21.4*	NA	83.8*	92.2*	99*	86*
16	94	78	85.6	70.3	0	21	77	49	61	0.00	28.77	29.89	S	8.4	23.2	17.15	83.5	90.9	95	86
17	83	70	77.7	69.7	0	12	97	59	77	0.03	28.90	30.02	NNW	4.8	18.0	12.33	82.5	87.2	90	84
18	90	69	78.4	66.1	0	14	97	39	69	0.01	28.97	30.09	NNE	7.7	21.4	25.77	81.8	87.9	96	81
19	89	62	76.1	62.3	0	11	93	39	65	0.00	28.96	30.08	NNE	3.6	10.7	24.04	81.3	89.1	97	82
20	87	65	77.3	65.1	0	11	92	50	67	0.00	28.93	30.05	SSE	5.2	16.3	15.90	80.7	87.5	92	83
21	86	70	76.5	69.7	0	13	95	61	80	0.16	28.91	30.03	SSE	5.7	18.6	16.01	81.0	86.3	91	82
22	83	68	74.0	68.7	0	11	99	58	85	0.00	28.90	30.02	NNE	4.8	12.0	14.23	80.6	84.5	89	81
23	90	64	77.0	67.0	0	12	99	42	74	0.00	28.93	30.05	NNE	3.7	14.0	22.67	80.1	86.2	94	79
24	91	66	78.6	68.3	0	13	99	43	74	0.00	29.01	30.13	ENE	3.1	14.2	21.65	80.4	88.1	95	82
25	92	66	79.5	68.0	0	14	98	40	71	0.00	29.00	30.13	ENE	4.2	16.4	24.29	80.8	89.8	97	83
26	89	67	77.6	68.4	0	13	99	50	76	0.00	28.92	30.04	SE	5.9	17.8	20.11	80.8	89.3	95	84
27	89	67	78.1	68.4	0	13	98	49	74	0.00	28.85	29.97	SE	6.2	20.6	18.37	80.6	88.5	94	83
28	93	72	82.0	70.2	0	17	93	47	70	0.00	28.83	29.95	S	11.2	24.9	23.02	81.1	89.2	95	83
29	95	75	84.7	72.1	0	20	90	50	68	0.00	28.84	29.96	S	11.2	27.9	23.26	82.1	90.5	97	85
30	97	77	86.0	71.6	0	22	87	42	64	0.00	28.81	29.93	S	11.4	24.9	24.74	82.9	91.8	98	86
31	96	77	86.2	72.4	0	22	85	47	65	0.00	28.83	29.95	S	11.6	25.1	23.88	83.4	92.5	99	87
	92*	71*	80.9*	68.8*	<- Monthly Averages ->						28.89*	30.01*	S *	7.2*	42.7*	21.58*	82.1*	88.7*	95*	83*
Temperature - Highest: 99*							Degree Days - Total HDD: 0*					Number of Days With: Tmax > 90: 20* Rainfall > 0.01 inch: 8* Tmax < 32: 0* Rainfall >= 0.10 inch: 4* Tmin < 32: 0* Avg Wind Speed > 10 mph: 6* Tmin <= 0: 0* Max Wind Speed >= 30 mph: 1*								
Lowest: 61*							Total CDD: 498*													
Rainfall: Monthly Total: 2.75* in.							Humidity - Highest: 99*													
Greatest 24 Hr: 1.52* in.							Lowest: 33*													

MESONET CLIMATOLOGICAL DATA SUMMARY (SULP) Sulphur Latitude: 34-33-57										August 2024 Nearest City: 4.0 NNE Sulphur Longitude: 96-57-01					Time Zone: Midnight-Midnight CST County: Murray Elevation: 1050 feet					
DAY	TEMPERATURE (F) MAX MIN AVG DEWPT				DEG DAYS HDD CDD		HUMIDITY (%) MAX MIN AVG			RAIN (in)	PRESSURE (in) STN MSL		WIND SPEED (mph) DIR AVG MAX			SOLAR (MJ/m2)	4" SOIL TEMPERATURES SOD BARE MAX MIN			
1	100	77	87.4	66.7	0	24	79	24	54	0.00	28.92	30.05	SSW	8.0	20.0	24.10	83.8	93.0	100	87
2	95	71	83.4	66.7	0	18	92	32	59	0.00	28.97	30.09	NNE	5.6	22.6	19.93	83.3	92.7	99	88
3	95	67	81.0	62.8	0	16	93	28	60	0.00	28.90	30.03	NNE	5.0	21.6	24.91	82.5	92.0	99	85
4	97	68	82.7	65.1	0	17	90	31	59	0.00	28.88	30.01	NE	4.4	14.7	20.27	82.2	91.7	98	86
5	96	70	83.5	65.0	0	18	85	31	57	0.00	28.92	30.05	S	4.9	17.5	22.84	82.7	92.7	99	87
6	100	66	83.8	65.5	0	18	94	29	60	0.00	28.89	30.02	NNE	3.4	15.2	23.96	82.7	93.0	101	86
7	102	69	85.6	67.3	0	21	92	30	59	0.00	28.78	29.90	NNE	3.8	11.8	23.57	83.2	94.2	101	87
8	101	70	86.6	66.8	0	20	89	32	55	0.00	28.78	29.90	NE	6.3	22.7	23.55	83.7	95.0	102	88
9	88	69	78.4	65.3	0	13	92	49	65	0.23	28.98	30.10	NNE	9.5	24.6	18.47	83.7	92.2	96	88
10	85	66	74.6	61.4	0	10	91	49	64	0.14	29.03	30.16	NE	6.7	19.7	14.04	81.7	87.1	90	84
11	85	71	76.7	70.7	0	13	99	67	83	2.68	28.93	30.06	SE	9.5	23.8	9.60	79.4	82.4	86	79
12	92	71	80.7	72.6	0	16	95	53	77	0.00	28.89	30.01	SE	10.1	21.5	17.86	80.6	82.0	87	79
13	96	76	86.0	71.8	0	21	87	44	64	0.00	28.89	30.01	SSE	9.4	19.0	22.96	82.4	86.1	95	79
14	97*	77*	86.8*	70.9*	0*	22*	84*	38*	61*	0.00*	28.85*	29.97*	SSE*	9.6*	22.4*	NA	82.7*	89.9*	97*	83*
15	98	78	87.5	71.8	0	23	81	43	61	0.00	28.82	29.93	S	8.6	18.9	21.91	82.8	91.1	99	84
16	100	77	88.6	71.6	0	23	83	39	59	0.00	28.83	29.95	S	7.7	20.2	23.22	83.4	92.7	100	86
17	97	75	85.5	72.5	0	21	93	49	66	0.01	28.85	29.97	S	9.3	33.5	19.42	83.4	92.1	98	87
18	102	72	87.9	70.5	0	22	94	35	59	0.00	28.85	29.97	S	5.1	15.3	23.59	83.4	93.0	101	86
19	101	70	86.0	69.6	0	21	89	28	61	0.00	28.87	29.99	ENE	6.0	18.9	23.20	83.3	93.7	101	87
20	92	74	82.4	70.7	0	18	85	50	69	0.00	28.92	30.04	E	9.3	23.0	22.56	83.4	93.3	99	88
21	89	72	80.0	65.6	0	16	79	48	62	0.00	28.93	30.05	ESE	10.7	22.4	21.68	82.8	91.7	97	86
22	91	71	80.4	62.7	0	16	65	45	55	0.00	28.90	30.02	ESE	12.4	27.1	20.51	81.9	90.2	96	85
23	99	74	85.9	67.8	0	22	72	42	55	0.00	28.88	30.01	SE	13.6	25.1	22.20	82.1	91.2	98	85
24	97	77	86.5	70.6	0	22	83	39	61	0.00	28.92	30.04	S	10.9	26.0	21.63	83.0	92.6	99	87
25	96	74	85.1	67.3	0	20	85	36	57	0.00	28.99	30.11	S	6.9	18.0	21.96	83.1	93.0	99	87
26	94	69	82.3	66.5	0	17	86	32	61	0.00	29.01	30.13	SSE	4.3	18.6	19.10	82.7	92.3	98	87
27	95	67	81.2	66.9	0	16	95	38	65	0.00	28.97	30.10	SE	3.7	15.0	18.86	81.9	91.0	97	85
28	96	69	83.4	66.9	0	18	95	37	61	0.00	28.93	30.06	S	5.2	18.9	21.53	82.0	91.7	98	85
29	95	72	82.3	67.6	0	18	89	40	63	0.00	28.91	30.03	SSE	7.2	36.0	19.13	82.1	91.5	97	86
30	90	72	77.4	70.9	0	16	97	53	82	0.18	28.93	30.05	SSE	4.5	23.7	14.87	81.9	89.6	95	86
31	88	70	77.5	71.2	0	14	99	49	83	0.00	28.92	30.04	NNE	5.2	18.0	18.60	81.7	87.8	94	83
	95*	72*	83.1*	68.0*	<- Monthly Averages ->					28.90* 30.03*		S * 7.3* 36.0*			20.67*	82.6* 91.0* 97* 85*				
Temperature - Highest: 102* Lowest: 66*							Degree Days - Total HDD: 0* Total CDD: 571*				Number of Days With: Tmax > 90: 26* Rainfall > 0.01 inch: 5* Tmax < 32: 0* Rainfall >= 0.10 inch: 4* Tmin < 32: 0* Avg Wind Speed > 10 mph: 5* Tmin <= 0: 0* Max Wind Speed >= 30 mph: 2*									
Rainfall: Monthly Total: 3.24* in. Greatest 24 Hr: 2.68* in.							Humidity - Highest: 99* Lowest: 24*													

MESONET CLIMATOLOGICAL DATA SUMMARY (SULP) Sulphur Latitude: 34-33-57										September 2024 Nearest City: 4.0 NNE Sulphur Longitude: 96-57-01					Time Zone: Midnight-Midnight CST County: Murray Elevation: 1050 feet					
DAY	TEMPERATURE (F) MAX MIN AVG DEWPT				DEG DAYS HDD CDD		HUMIDITY (%) MAX MIN AVG			RAIN (in)	PRESSURE (in) STN MSL		WIND SPEED (mph) DIR AVG MAX			SOLAR (MJ/m2)	4" SOIL TEMPERATURES SOD BARE MAX MIN			
1	87	70	77.1	70.5	0	14	99	57	82	0.00	28.93	30.05	NE	7.5	25.8	14.93	81.2	87.5	92	84
2	87	68	76.7	67.4	0	12	98	50	75	0.00	28.98	30.10	NNE	7.8	19.2	17.53	80.6	87.1	92	82
3	81	71	75.0	66.0	0	11	89	59	74	0.00	28.99	30.12	NE	4.5	13.8	9.12	80.0	85.0	87	83
4	84	65	74.2	66.2	0	10	96	53	77	0.00	29.02	30.15	SSW	2.7	10.8	10.72	79.4	83.9	88	81
5	90*	64*	76.0*	64.5*	0*	12*	97*	39*	71*	0.00*	29.01*	30.13*	NNE*	5.0*	18.0*	NA	79.0*	85.0*	92*	79*
6	90	65	76.0	63.4	0	12	95	43	68	0.00	28.99	30.11	NNE	8.2	23.6	21.07	79.1	86.1	92	81
7	82	56	69.7	50.0	0	4	83	31	52	0.00	29.02	30.15	NNE	8.9	23.4	21.22	78.0	84.2	89	79
8	84	51	67.1	48.5	0	2	93	28	56	0.00	29.01	30.14	NE	4.9	18.9	21.58	76.4	82.5	89	76
9	86	52	69.0	44.6	0	4	86	18	47	0.00	29.00	30.12	E	4.5	18.9	22.05	75.6	81.9	88	76
10	88	49	69.3	46.8	0	3	91	18	51	0.00	28.89	30.01	SE	4.7	16.5	21.93	75.0	81.4	88	75
11	89	60	74.2	60.8	0	9	93	42	65	0.00	28.80	29.92	ESE	7.0	24.7	15.05	75.6	81.8	86	77
12	88	61	73.9	59.0	0	10	95	35	63	0.00	28.75	29.87	NE	4.2	18.2	20.62	76.2	82.8	89	77
13	92	55	74.4	57.4	0	9	97	31	61	0.00	28.76	29.88	NNE	3.6	11.7	20.15	76.2	83.4	90	77
14	93	68	77.8	62.9	0	15	91	38	62	0.04	28.80	29.92	E	6.9	23.8	15.49	76.8	83.3	87	79
15	92	68	78.7	64.4	0	15	91	37	64	0.00	28.85	29.97	E	5.8	16.0	16.19	77.1	83.8	89	79
16	91	62	76.6	63.5	0	11	98	38	67	0.00	28.87	29.99	ENE	5.3	16.2	20.16	77.3	84.6	91	79
17	90	66	77.0	65.7	0	13	96	43	71	0.00	28.84	29.96	SE	6.5	18.0	16.13	77.8	84.8	89	80
18	95	69	80.5	67.8	0	17	95	41	68	0.00	28.77	29.89	SE	9.7	23.8	17.35	78.2	84.7	90	80
19	99	74	85.3	68.1	0	22	83	35	59	0.00	28.75	29.87	S	10.3	23.3	19.26	79.2	86.3	92	82
20	101	74	86.3	66.9	0	22	80	30	55	0.00	28.75	29.86	S	7.5	19.3	18.86	79.9	87.4	93	82
21	97	74	85.0	66.4	0	20	79	32	56	0.00	28.76	29.88	S	8.8	21.6	18.87	80.0	87.5	92	83
22	95	66	78.4	65.5	0	15	98	32	68	0.79	28.80	29.91	S	7.9	29.3	16.15	79.9	86.8	92	83
23	73	59	64.8	62.4	0	1	98	74	92	0.04	28.84	29.96	NNW	5.1	17.2	7.17	77.5	78.3	84	75
24	86	55	71.0	61.8	0	6	99	45	76	0.04	28.78	29.90	SSW	5.5	35.2	16.43	75.8	75.4	81	70
25	82	57	67.8	58.1	0	5	99	37	75	0.00	28.86	29.98	NNE	6.4	27.2	18.97	76.0	77.3	84	71
26	84	52	66.8	54.8	0	3	99	35	71	0.01	28.83	29.95	NNE	4.2	16.7	19.45	74.3	77.3	84	70
27	84	52	67.2	54.2	0	3	99	34	69	0.00	28.77	29.89	N	5.4	22.0	19.16	73.3	77.3	84	71
28	86	53	67.6	53.8	0	5	96	27	67	0.00	28.84	29.96	N	5.5	25.1	14.28	72.6	76.0	81	71
29	88	53	69.1	55.3	0	6	98	29	68	0.00	28.87	29.99	NNE	3.7	16.6	17.81	72.3	76.7	84	70
30	91	52	70.2	54.3	0	6	97	25	65	0.00	28.85	29.97	NNE	2.7	10.6	18.77	72.3	77.9	85	71
	88* 61* 74.1* 60.4*				<- Monthly Averages ->					28.87* 29.99*		NNE* 6.0* 35.2*			17.46*	77.1* 82.6* 88* 77*				
Temperature - Highest: 101* Lowest: 49*							Degree Days - Total HDD: 0* Total CDD: 296*				Number of Days With: Tmax > 90: 13* Rainfall > 0.01 inch: 5* Tmax < 32: 0* Rainfall >= 0.10 inch: 1* Tmin < 32: 0* Avg Wind Speed > 10 mph: 1* Tmin <= 0: 0* Max Wind Speed >= 30 mph: 1*									
Rainfall: Monthly Total: 0.92* in. Greatest 24 Hr: 0.79* in.							Humidity - Highest: 99* Lowest: 18*													