

**RECEIVED**

OCT 10 2019



**MILL CREEK DOLOMITE, LLC.**

Oklahoma Water Resources Board

9915 West Amos Conley Road  
P O Box 239  
Mill Creek, OK 74856  
(580)384-5271

09/26/19

Kent Wilkens, Assistant Chief  
Planning and Management Division  
State of Oklahoma  
Water Resources Board  
3800 N. Classen Boulevard  
Oklahoma City, OK 73118

Re: Consumptive Use of Pit Water, 2nd Quarter Report 2019

Dear Mr. Wilkins,

As required under **Oklahoma Statute 82-1020.2 (E) (1)** and **Oklahoma Administrative Code 785:30-15**, Mill Creek Dolomite is submitting the following water report for the Second quarter of calendar year 2019.

Please note that our Pit Water Pumped during the resumed during the 2<sup>nd</sup> qtr. The pump had been out of service from week of 08/17/18 in our Sump A area until the Second Quarter 2019. All rain/pit water had been retained within the Sump A area. Mining activity in that area continues to be halted until the water is removed.

If you have any questions or require additional information, please do not hesitate to contact me

Sincerely,

Ken Baker  
Quality, Environmental Manager  
Mill Creek Dolomite, LLC  
kenb@min-ad.com.com

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**CONSUMPTIVE USE REPORT**

**2nd Quarter 2019**

**MILL CREEK DOLOMITE, LLC  
MILL CREEK MINE & MILL**

**OCT 10 2019**

Oklahoma Water Resources Board

**TABLE 1: Estimated Consumptive Use of Pit Water**

<b>PIT GROUNDWATER VOLUME</b>		<b>VALUES (Gal)</b>
1	Total volume of water pumped from the producing mine pit (s)	16,212,859
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	38,076,065
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water	0
4	Other non-pit waters pumped from the producing mine pit	0
5	Add lines 2 through 4	38,076,065
6	<b>Pit Ground Water Volume</b> (Line 1 minus Line 5)	-21,863,206
<b>DEFINED ELEMENTS OF CONSUMPTIVE USE</b>		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	41,575
8	Volume of pit groundwater that is carried away with the mined material transported off the mining site (shipped)	0
9	Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (Excluding structures used for augmentation)	8,259,149
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	1,303,250
11	<b>Defined Elements of Consumptive Use of Pit Groundwater</b> ( Add Lines 7 through 10)	9,603,974
<b>PIT GROUNDWATER BALANCE</b>		
12	Line 6 minus Line 11	-31,467,180
13	<b>Groundwater Augmentation</b> Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
14	<b>Stream Augmentation:</b> Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance, pursuant to a Management Plan	
15	<b>Precipitation &amp; Run-off</b> Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	<b>Recycled Pit Groundwater</b> Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
17	<b>Other Non-Consumptive Losses</b> Including pit groundwater returned to the land surface from which runoff flows into a mine pit and other losses (not included in lines 7 through 10)	
18	Add lines 13 through 17	0
19	<b>Other Consumptive Use (adjusted) (Line 12 minus Line 18)</b>	-31,467,180
<b>TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER</b>		
20	Total Net Reported Consumptive Use (Line 11 plus Line 19)	-21,863,206

**MILL CREEK DOLOMITE, LLC**

**PIT WATER MONITORING DATA**

**SUMP SURFACE AREA DATA:**

SUMP A (sq ft)      **2,163,342**  
 PUMP A (GPM)        **500**

SUMP B (sq ft)                      **1,051,207**  
 PUMP B (GPM)                      **750**

New Pump Field Checked 03/01/19

DATE	WK	PU-19 QA		PU-18 QB		PIT WATER PUMPED			PIT RAIN WATER					
		Meter Reading	HRS RAN	Meter Reading	HRS. RAN	QA GPD	QB GPD	Grand Total	RAIN FALL	VOLUME QA	GALLONS QA	VOLUME QB	GALLONS QB	TOTAL GALLONS
4/5/19	14	9145 0	0 0		28 0	0	180000	180000	0 3	54084	404599	26280	196602	601201
4/12/19	15	9145 0	0 0		42 0	0	270000	270000	2 0	360557	2697327	175201	1310680	4008007
4/19/19	16	9145 0	0 0		60 0	0	385714	385714	0 1	18028	134866	8760	65534	200400
4/26/19	17	9145 0	0 0		41 0	0	263571	263571	0 1	18028	134866	8760	65534	200400
<b>Monthly Totals</b>			0 0		171 0	0	2198571	2198571	2 50	450696	3371659	219001	1638350	5010009
5/3/19	18	9145 0	0 0		78 0	0	501429	501429	5 5	991532	7417649	481803	3604370	11022019
5/10/19	19	9145 0	0 0		63 0	0	405000	405000	1 9	342529	2562461	166441	1245146	3807607
5/17/19	20	9145 0	0 0		45 0	0	289286	289286	1 7	306473	2292728	148921	1114078	3406806
5/24/19	21	9145 0	0 0		45 0	0	289286	289286	1 2	216334	1618396	105121	786408	2404804
5/31/19	22	9145 0	0 0		55 0	0	353571	353571	1 0	180279	1348663	87601	655340	2004003
<b>Monthly Totals</b>			0 0		286 0	0	3,039,771	3,870,001	11 30	1,856,869	13,891,234	902,286	6,750,002	20,641,235
6/7/19	23	9145 0	92 0		95 0	394286	610714	1005000	2 7	486752	3641391	236522	1769418	5410809
6/14/19	24	9145 0	85 0		49 0	364286	315000	679286	1 9	342529	2562461	166441	1245146	3807607
6/21/19	25	9145 0	98 0		49 0	420000	315000	735000	1 6	288446	2157862	140161	1048544	3206405
6/28/19	26	9145 0	89 0		50 0	381429	321429	702857	0 0	0	0	0	0	0
<b>Monthly Totals</b>			364 0		243 0	7020000	3124286	10144286	6 2	1117727	8361713	543124	4063108	12424821
<b>2nd QUARTER TOTALS</b>			<b>364.0</b>		<b>700.0</b>	<b>7,020,000</b>	<b>8,362,629</b>	<b>16,212,859</b>	<b>20.00</b>	<b>3425292</b>	<b>25624606</b>	<b>1664411</b>	<b>12451459</b>	<b>38,076,065</b>

**MILL CREEK DOLOMITE, LLC  
PIT WATER MONITORING DATA  
2nd Quarter 2019**

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**SUMP DATA:**

SUMP A. 2,163,342 Sq Ft  
SUMP B 1,051,207 Sq Ft.

**SETTLING POND DATA:**

SETTLING POND A: 30,000 Sq. Ft. (F-02, MAP 3 – SSWMCP)  
SETTLING POND B: 35,000 Sq Ft (F-01, MAP 3 – SSWMCP)

**PRODUCTION DATA:**

Month	Tons	% Moisture
April	21,168	0.3
May	15,512	0.3
June	20,832	0.3
	57,512	

**Calculations for gallons of water shipped to plant:**

	Tons	Moisture	Tons H2O	Lbs H2O
April	21168	X 0.003 =	64	127,008
May	15512	X 0.003 =	47	93,072
June	20832	X 0.003 =	62	124,992
				345,072
Total Lbs	345,072			
Gallons	345,072	/ 8.3 =	41,575	Gallons of water

**Misc. Water Data:**

**List of Equivalents:**

**Volume Units**

One Gallon Conversion factors

= 231 cubic inches

= 0.13368 cubic foot weighs approximately 8.3 pounds

**One Cubic Foot**

= 1,728 cubic inches

= 7.481 gallons (7.5 for ordinary calculations) weighs 62.4 pounds (62.5 for ordinary calculations)

**PIT WATER MONITORING DATA  
MILL CREEK DOLOMITE, LLC  
EVAPORATION**

Sump A (sq ft)            633,885      Sump B (sq ft)            262,802 No Pumping Quarry A since August 2018  
Settling A (sq ft)        30,000        Settling B (sq ft)        35,000

Apr-19			Sump A	Sump A	Sump B	Sump B	Settling A	Settling A	Settling B	Settling B	Total
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation (Gallons)
04/01/19	0 15	0 105	5546 49	41493 32	2299 52	17202 69	262 50	1963 76	306 25	2291 06	62950 83
04/02/19	0 21	0 147	7765 09	58090 65	3219 32	24083 77	367 50	2749 27	428 75	3207 48	88131 16
04/03/19	0 2	0 14	7395 33	55324 43	3066 02	22936 92	350 00	2618 35	408 33	3054 74	83934 44
04/04/19	0 12	0 084	4437 20	33194 66	1839 61	13762 15	210 00	1571 01	245 00	1832 85	50360 66
04/05/19	0 18	0 126	6655 79	49791 98	2759 42	20643 23	315 00	2356 52	367 50	2749 27	75540 99
04/06/19	0 08	0 056	2958 13	22129 77	1226 41	9174 77	140 00	1047 34	163 33	1221 90	33573 78
04/07/19	0 09	0 063	3327 90	24895 99	1379 71	10321 61	157 50	1178 26	183 75	1374 63	37770 50
04/08/19	0 28	0 196	10353 46	77454 20	4292 43	32111 69	490 00	3665 69	571 67	4276 64	117508 21
04/09/19	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
04/10/19	0 49	0 343	18118 55	135544 84	7511 76	56195 46	857 50	6414 96	1000 42	7484 12	205639 37
04/11/19	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
04/12/19	0 24	0 168	8874 39	66389 31	3679 23	27524 30	420 00	3142 02	490 00	3665 69	100721 33
04/13/19	0 09	0 063	3327 90	24895 99	1379 71	10321 61	157 50	1178 26	183 75	1374 63	37770 50
04/14/19	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
04/15/19	0 32	0 224	11832 52	88519 08	4905 64	36699 07	560 00	4189 36	653 33	4887 59	134295 10
04/16/19	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
04/17/19	0 11	0 077	4067 43	30428 43	1686 31	12615 31	192 50	1440 09	224 58	1680 11	46163 94
04/18/19	0 24	0 168	8874 39	66389 31	3679 23	27524 30	420 00	3142 02	490 00	3665 69	100721 33
04/19/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
04/20/19	0 25	0 175	9244 16	69155 53	3832 53	28671 15	437 50	3272 94	510 42	3818 43	104918 05
04/21/19	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
04/22/19	0 18	0 126	6655 79	49791 98	2759 42	20643 23	315 00	2356 52	367 50	2749 27	75540 99
04/23/19	0 14	0 098	5176 73	38727 10	2146 22	16055 84	245 00	1832 85	285 83	2138 32	58754 11
04/24/19	0 07	0 049	2588 36	19363 55	1073 11	8027 92	122 50	916 42	142 92	1069 16	29377 05
04/25/19	0 27	0 189	9983 69	74687 98	4139 13	30964 84	472 50	3534 77	551 25	4123 90	113311 49
04/26/19	0 24	0 168	8874 39	66389 31	3679 23	27524 30	420 00	3142 02	490 00	3665 69	100721 33
04/27/19	0 19	0 133	7025 56	52558 21	2912 72	21790 07	332 50	2487 43	387 92	2902 00	79737 72
04/28/19	0 32	0 224	11832 52	88519 08	4905 64	36699 07	560 00	4189 36	653 33	4887 59	134295 10
04/29/19	0 2	0 14	7395 33	55324 43	3066 02	22936 92	350 00	2618 35	408 33	3054 74	83934 44
04/30/19	0 08	0 056	2958 13	22129 77	1226 41	9174 77	140 00	1047 34	163 33	1221 90	33573 78
		0	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
<b>Monthly Total</b>			<b>235,171 34</b>	<b>1,759,316 76</b>	<b>97,499.54</b>	<b>729,394.07</b>	<b>11,130.00</b>	<b>83,263.53</b>	<b>12,985.00</b>	<b>97,140.79</b>	<b>2,669,115.15</b>

**PIT WATER MONITORING DATA  
MILL CREEK DOLOMITE, LLC  
EVAPORATION**

Sump A (sq ft)            633,885            Sump B (sq ft)            262,802 No Pumping Quarry A since August 2018  
Settling A (sq ft)        30,000            Settling B (sq ft)        35,000

May-19											
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)
05/01/19	0 07	0 049	2588 36	19363 55	1073 11	8027 92	122 50	916 42	142 92	1069 16	29377 05
05/02/19	0 15	0 105	5546 49	41493 32	2299 52	17202 69	262 50	1963 76	306 25	2291 06	62950 83
05/03/19	0 19	0 133	7025 56	52558 21	2912 72	21790 07	332 50	2487 43	387 92	2902 00	79737 72
05/04/19	0 13	0 091	4806 96	35960 88	1992 92	14909 00	227 50	1701 93	265 42	1985 58	54557 39
05/05/19	0 19	0 133	7025 56	52558 21	2912 72	21790 07	332 50	2487 43	387 92	2902 00	79737 72
05/06/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
05/07/19	0 21	0 147	7765 09	58090 65	3219 32	24083 77	367 50	2749 27	428 75	3207 48	88131 16
05/08/19	0 08	0 056	2958 13	22129 77	1226 41	9174 77	140 00	1047 34	163 33	1221 90	33573 78
05/09/19	0 08	0 056	2958 13	22129 77	1226 41	9174 77	140 00	1047 34	163 33	1221 90	33573 78
05/10/19	0 14	0 098	5176 73	38727 10	2146 22	16055 84	245 00	1832 85	285 83	2138 32	58754 11
05/11/19	0 07	0 049	2588 36	19363 55	1073 11	8027 92	122 50	916 42	142 92	1069 16	29377 05
05/12/19	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
05/13/19	0 22	0 154	8134 86	60856 87	3372 63	25230 61	385 00	2880 19	449 17	3360 22	92327 88
05/14/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
05/15/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
05/16/19	0 27	0 189	9983 69	74687 98	4139 13	30964 84	472 50	3534 77	551 25	4123 90	113311 49
05/17/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
05/18/19	0 05	0 035	1848 83	13831 11	766 51	5734 23	87 50	654 59	102 08	763 69	20983 61
05/19/19	0 25	0 175	9244 16	69155 53	3832 53	28671 15	437 50	3272 94	510 42	3818 43	104918 05
05/20/19	0 15	0 105	5546 49	41493 32	2299 52	17202 69	262 50	1963 76	306 25	2291 06	62950 83
05/21/19	0 22	0 154	8134 86	60856 87	3372 63	25230 61	385 00	2880 19	449 17	3360 22	92327 88
05/22/19	0 19	0 133	7025 56	52558 21	2912 72	21790 07	332 50	2487 43	387 92	2902 00	79737 72
05/23/19	0 27	0 189	9983 69	74687 98	4139 13	30964 84	472 50	3534 77	551 25	4123 90	113311 49
05/24/19	0 29	0 203	10723 22	80220 42	4445 73	33258 53	507 50	3796 61	592 08	4429 38	121704 94
05/25/19	0 28	0 196	10353 46	77454 20	4292 43	32111 69	490 00	3665 69	571 67	4276 64	117508 21
05/26/19	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
05/27/19	0 31	0 217	11462 75	85752 86	4752 34	35552 23	542 50	4058 44	632 92	4734 85	130098 38
05/28/19	0 2	0 14	7395 33	55324 43	3066 02	22936 92	350 00	2618 35	408 33	3054 74	83934 44
05/29/19	0 05	0 035	1848 83	13831 11	766 51	5734 23	87 50	654 59	102 08	763 69	20983 61
05/30/19	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
05/31/19	0 25	0 175	9244 16	69155 53	3832 53	28671 15	437 50	3272 94	510 42	3818 43	104918 05
<b>Monthly Total</b>			<b>224,448.11</b>	<b>1,679,096.34</b>	<b>93,053.81</b>	<b>696,135.54</b>	<b>10,622.50</b>	<b>79,466.92</b>	<b>12,392.92</b>	<b>92,711.41</b>	<b>2,547,410.21</b>

**PIT WATER MONITORING DATA  
MILL CREEK DOLOMITE, LLC  
EVAPORATION**

Sump A (sq ft)      633,885      Sump B (sq ft)      262,802      No Pumping Quarry A since August 2018  
Settling A (sq ft)      30,000      Settling B (sq ft)      35,000

Jun-19											
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)
6/1/2019	0 22	0 154	8134 86	60856 87	3372 63	25230 61	385 00	2880 19	449 17	3360 22	92327 88
6/2/2019	0 17	0 119	6286 03	47025 76	2606 12	19496 38	297 50	2225 60	347 08	2596 53	71344 27
6/3/2019	0 17	0 119	6286 03	47025 76	2606 12	19496 38	297 50	2225 60	347 08	2596 53	71344 27
6/4/2019	0 11	0 077	4067 43	30428 43	1686 31	12615 31	192 50	1440 09	224 58	1680 11	46163 94
6/5/2019	0 1	0 07	3697 66	27662 21	1533 01	11468 46	175 00	1309 18	204 17	1527 37	41967 22
6/6/2019	0 15	0 105	5546 49	41493 32	2299 52	17202 69	262 50	1963 76	306 25	2291 06	62950 83
6/7/2019	0 2	0 14	7395 33	55324 43	3066 02	22936 92	350 00	2618 35	408 33	3054 74	83934 44
6/8/2019	0 28	0 196	10353 46	77454 20	4292 43	32111 69	490 00	3665 69	571 67	4276 64	117508 21
6/9/2019	0 18	0 126	6655 79	49791 98	2759 42	20643 23	315 00	2356 52	367 50	2749 27	75540 99
6/10/2019	0 33	0 231	12202 29	91285 30	5058 94	37845 92	577 50	4320 28	673 75	5040 32	138491 82
6/11/2019	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
6/12/2019	0 29	0 203	10723 22	80220 42	4445 73	33258 53	507 50	3796 61	592 08	4429 38	121704 94
6/13/2019	0 27	0 189	9983 69	74687 98	4139 13	30964 84	472 50	3534 77	551 25	4123 90	113311 49
6/14/2019	0 28	0 196	10353 46	77454 20	4292 43	32111 69	490 00	3665 69	571 67	4276 64	117508 21
6/15/2019	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
6/16/2019	0 09	0 063	3327 90	24895 99	1379 71	10321 61	157 50	1178.26	183 75	1374 63	37770 50
6/17/2019	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
6/18/2019	0 25	0 175	9244 16	69155 53	3832 53	28671 15	437 50	3272 94	510 42	3818 43	104918 05
6/19/2019	0 26	0 182	9613 92	71921 75	3985 83	29818 00	455 00	3403 86	530 83	3971 16	109114 77
6/20/2019	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
6/21/2019	0 39	0 273	14420 88	107882 63	5978 75	44727 00	682 50	5105 78	796 25	5956 75	163672 16
6/22/2019	0 31	0 217	11462 75	85752 86	4752 34	35552 23	542 50	4058 44	632 92	4734 85	130098 38
6/23/2019	0 21	0 147	7765 09	58090 65	3219 32	24083 77	367 50	2749 27	428 75	3207 48	88131 16
6/24/2019	0 25	0 175	9244 16	69155 53	3832 53	28671 15	437 50	3272 94	510 42	3818 43	104918 05
6/25/2019	0 29	0 203	10723 22	80220 42	4445 73	33258 53	507 50	3796 61	592 08	4429 38	121704 94
6/26/2019	0 29	0 203	10723 22	80220 42	4445 73	33258 53	507 50	3796 61	592 08	4429 38	121704 94
6/27/2019	0 27	0 189	9983.69	74687 98	4139 13	30964 84	472 50	3534 77	551 25	4123 90	113311 49
6/28/2019	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
6/29/2019	0 3	0 21	11092 99	82986 64	4599 04	34405 38	525 00	3927 53	612 50	4582 11	125901 66
6/30/2019	0 23	0 161	8504 62	63623 09	3525 93	26377 46	402 50	3011 10	469 58	3512 95	96524 60
		0	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
<b>Monthly Total</b>			<b>268,080.53</b>	<b>2,005,510.45</b>	<b>111,143.35</b>	<b>831,463 37</b>	<b>12,687.50</b>	<b>94,915.19</b>	<b>14,802.08</b>	<b>110,734.39</b>	<b>3,042,623.40</b>
<b>Quarterly Total</b>			<b>727,699 98</b>	<b>5,443,923 55</b>	<b>301,696.70</b>	<b>2,256,992 98</b>	<b>34,440.00</b>	<b>257,645.64</b>	<b>40,180 00</b>	<b>300,586.58</b>	<b>8,259,148 75</b>

Mesonet  
 Seasonal Single Site ET Table  
 Tishomingo  
 3rd Quarter 2019

Date	Reference ET, Short [in]	Reference ET Tall [in]	Cool Season Grass ET [in]	Warm Season Grass ET [in]	Pan Evaporation [in]
9/30/2019	0.12	0.15	0.11	0.07	0.15
9/29/2019	0.15	0.2	0.14	0.09	0.19
9/28/2019	0.16	0.21	0.15	0.1	0.2
9/27/2019	0.19	0.25	0.18	0.12	0.25
9/26/2019	0.17	0.22	0.16	0.11	0.22
9/25/2019	0.16	0.19	0.15	0.1	0.19
9/24/2019	0.11	0.13	0.1	0.07	0.13
9/23/2019	0.09	0.1	0.09	0.06	0.11
9/22/2019	0.13	0.18	0.12	0.08	0.17
9/21/2019	0.16	0.21	0.15	0.1	0.21
9/20/2019	0.03	0.03	0.02	0.02	0.03
9/19/2019	0.13	0.16	0.12	0.08	0.16
9/18/2019	0.17	0.19	0.15	0.1	0.2
9/17/2019	0.17	0.2	0.16	0.11	0.21
9/16/2019	0.17	0.2	0.16	0.11	0.21
9/15/2019	0.16	0.18	0.15	0.1	0.19
9/14/2019	0.18	0.2	0.17	0.11	0.21
9/13/2019	0.17	0.2	0.15	0.1	0.2
9/12/2019	0.19	0.23	0.17	0.12	0.23
9/11/2019	0.19	0.23	0.18	0.12	0.24
9/10/2019	0.19	0.23	0.17	0.12	0.23
9/9/2019	0.19	0.23	0.18	0.12	0.24
9/8/2019	0.2	0.23	0.18	0.12	0.24
9/7/2019	0.19	0.21	0.17	0.12	0.22
9/6/2019	0.19	0.21	0.17	0.12	0.22
9/5/2019	0.18	0.19	0.17	0.11	0.22
9/4/2019	0.18	0.19	0.17	0.11	0.22
9/3/2019	0.18	0.2	0.17	0.11	0.22
9/2/2019	0.18	0.19	0.17	0.11	0.22
9/1/2019	0.18	0.19	0.16	0.11	0.21
8/31/2019	0.17	0.18	0.16	0.1	0.2
8/30/2019	0.06	0.07	0.05	0.03	0.07
8/29/2019	0.2	0.23	0.19	0.12	0.24
8/28/2019	0.19	0.21	0.17	0.11	0.22
8/27/2019	0.13	0.16	0.12	0.08	0.16
8/26/2019	0.23	0.29	0.22	0.14	0.3
8/25/2019	0.14	0.16	0.13	0.09	0.17
8/24/2019	0.12	0.14	0.12	0.08	0.15
8/23/2019	0.05	0.06	0.05	0.03	0.06
8/22/2019	0.2	0.24	0.19	0.13	0.25
8/21/2019	0.22	0.26	0.21	0.14	0.28
8/20/2019	0.23	0.27	0.22	0.14	0.29
8/19/2019	0.24	0.28	0.22	0.15	0.3
8/18/2019	0.23	0.3	0.22	0.14	0.3
8/17/2019	0.25	0.31	0.23	0.15	0.32
8/16/2019	0.25	0.31	0.23	0.15	0.32
8/15/2019	0.23	0.26	0.21	0.14	0.28



8/14/2019	0.21	0.24	0.19	0.13	0.25
8/13/2019	0.2	0.24	0.18	0.12	0.25
8/12/2019	0.25	0.29	0.23	0.15	0.3
8/11/2019	0.24	0.28	0.22	0.15	0.3
8/10/2019	0.23	0.27	0.22	0.14	0.29
8/9/2019	0.17	0.2	0.16	0.11	0.21
8/8/2019	0.19	0.23	0.18	0.12	0.23
8/7/2019	0.24	0.28	0.23	0.15	0.3
8/6/2019	0.21	0.23	0.19	0.13	0.25
8/5/2019	0.15	0.16	0.14	0.09	0.17
8/4/2019	0.15	0.17	0.14	0.09	0.18
8/3/2019	0.09	0.11	0.08	0.06	0.11
8/2/2019	0.17	0.21	0.16	0.11	0.21
8/1/2019	0.21	0.26	0.2	0.13	0.25
7/31/2019	0.25	0.3	0.24	0.16	0.32
7/30/2019	0.21	0.24	0.2	0.13	0.25
7/29/2019	0.14	0.17	0.13	0.09	0.18
7/28/2019	0.26	0.33	0.24	0.16	0.34
7/27/2019	0.24	0.3	0.23	0.15	0.31
7/26/2019	0.23	0.27	0.21	0.14	0.28
7/25/2019	0.22	0.27	0.21	0.14	0.28
7/24/2019	0.21	0.25	0.2	0.13	0.27
7/23/2019	0.27	0.35	0.25	0.17	0.35
7/22/2019	0.21	0.26	0.19	0.13	0.27
7/21/2019	0.26	0.32	0.24	0.16	0.33
7/20/2019	0.29	0.37	0.27	0.18	0.39
7/19/2019	0.29	0.37	0.27	0.18	0.39
7/18/2019	0.31	0.41	0.29	0.19	0.42
7/17/2019	0.28	0.35	0.26	0.18	0.37
7/16/2019	0.25	0.29	0.23	0.15	0.31
7/15/2019	0.21	0.24	0.19	0.13	0.25
7/14/2019	0.19	0.23	0.17	0.11	0.24
7/13/2019	0.24	0.3	0.23	0.15	0.31
7/12/2019	0.24	0.29	0.22	0.15	0.3
7/11/2019	0.25	0.3	0.23	0.15	0.31
7/10/2019	0.17	0.19	0.16	0.1	0.2
7/9/2019	0.25	0.29	0.23	0.15	0.31
7/8/2019	0.17	0.2	0.16	0.11	0.21
7/7/2019	0.2	0.22	0.19	0.13	0.24
7/6/2019	0.14	0.16	0.13	0.09	0.17
7/5/2019	0.18	0.21	0.16	0.11	0.22
7/4/2019	0.21	0.26	0.19	0.13	0.27
7/3/2019	0.22	0.26	0.21	0.14	0.28
7/2/2019	0.24	0.27	0.22	0.15	0.29
7/1/2019	0.2	0.23	0.19	0.12	0.24

**RECEIVED**

**OCT 10 2019**

Oklahoma Water Resources Board

**MILL CREEK DOLOMITE WATER USAGE LOG**  
2nd QUARTER 2019

Water Truck											
	International					Western Star					
DATE	RAINFALL	START	END	MILES	Loads	START	END	MILES	Loads		
Tuesday	4/1/2019	0	76664	76686	22	11	387361	387361	0	0	
Wednesday	4/2/2019	0	76686	76701	15	8	387361	387361	0	0	
Thursday	4/3/2019	0	76701	76732	31	16	387361	387361	0	0	
Friday	4/4/2019	0 07	76732	76732	0	0	387361	387361	0	0	
Saturday	4/5/2019	0	76732	76732	0	0	387361	387361	0	0	
Sunday	4/6/2019	0 21	76732	76732	0	0	387361	387361	0	0	
Monday	4/7/2019	0 01	76732	76732	0	0	387361	387361	0	0	
Tuesday	4/8/2019	0	76732	76732	0	0	387361	387361	0	0	
Wednesday	4/9/2019	0	76732	76732	0	0	387361	387361	0	0	
Thursday	4/10/2019	0	76732	76732	0	0	387361	387525	164	82	
Friday	4/11/2019	0	76732	76732	0	0	387525	387644	119	60	
Saturday	4/12/2019	0	76732	76732	0	0	387644	387684	40	20	
Sunday	4/13/2019	2 02	76732	76732	0	0	387684	387684	0	0	
Monday	4/14/2019	0 02	76732	76732	0	0	387684	387684	0	0	
Tuesday	4/15/2019	0	76732	76732	0	0	387684	387684	0	0	
Wednesday	4/16/2019	0	76732	76732	0	0	387684	387781	97	49	
Thursday	4/17/2019	0 03	76732	76732	0	0	387781	387865	84	42	
Friday	4/18/2019	0 04	76732	76796	64	32	387865	387888	23	12	
Saturday	4/19/2019	0	76796	76796	0	0	387888	387910	22	11	
Sunday	4/20/2019	0	76796	76796	0	0	387910	387910	0	0	
Monday	4/21/2019	0	76796	76796	0	0	387910	387910	0	0	
Tuesday	4/22/2019	0	76796	76796	0	0	387910	387925	15	8	
Wednesday	4/23/2019	0 07	76796	76796	0	0	387925	388020	95	48	
Thursday	4/24/2019	0	76796	76796	0	0	388020	388020	0	0	
Friday	4/25/2019	0	76796	76796	0	0	388020	388020	0	0	
Saturday	4/26/2019	0	76796	76796	0	0	388020	388020	0	0	
Sunday	4/27/2019	0	76796	76796	0	0	388020	388020	0	0	
Monday	4/28/2019	0	76796	76796	0	0	388020	388020	0	0	
Tuesday	4/29/2019	0	76796	76796	0	0	388020	388049	29	15	
Wednesday	4/30/2019	3 33	76796	76796	0	0	388049	388049	0	0	
Thursday	5/1/2019	1 97	76796	76796	0	0	388049	388049	0	0	
Friday	5/2/2019	0 16	76796	76796	0	0	388049	388049	0	0	
Saturday	5/3/2019	0 1	76796	76796	0	0	388049	388049	0	0	
Sunday	5/4/2019	0	76796	76796	0	0	388049	388049	0	0	
Monday	5/5/2019	0	76796	76796	0	0	388049	388049	0	0	
Tuesday	5/6/2019	0	76796	76796	0	0	388049	388100	51	26	
Wednesday	5/7/2019	0	76796	76796	0	0	388100	388100	0	0	
Thursday	5/8/2019	1 51	76796	76796	0	0	388100	388100	0	0	
Friday	5/9/2019	0	76796	76796	0	0	388100	388100	0	0	
Saturday	5/10/2019	0 25	76796	76796	0	0	388100	388100	0	0	
Sunday	5/11/2019	0 17	76796	76796	0	0	388100	388100	0	0	
Monday	5/12/2019	0	76796	76796	0	0	388100	388100	0	0	
Tuesday	5/13/2019	0	76796	76796	0	0	388100	388100	0	0	

WELL			
DATE	WK	PU - 21	Ag Lime
		Meter Reading	Hours RAN
1/1/19	1	11062	0 0
1/8/19	2	11062	0 0
1/15/19	3	11062	0 0
1/22/19	4	11062	0 0
1/29/19	5	11062	0 0
2/5/19	6	11062	0 0
2/12/19	7	11062	0 0
2/19/19	8	11062	0 0
2/26/19	9	11062	0 0
3/5/19	10	11062	0 0
3/12/19	11	11062	0 0
3/19/19	12	11062	0 0
3/26/19	13	11062	0 0
<b>Total</b>		<b>0</b>	<b>0 0</b>
<b>Total gallons (@ 476 47/hr)</b>			<b>0</b>

Water Truck Summary		
	Load	Gallons
International	1 =	4,500
Western Star	1 =	3,500
International	66	297,000
Western Star	288	1,006,250
<b>2nd QUARTER TOTAL</b>		<b>1,303,250</b>

Wednesday	5/14/2019	0	76796	76796	0	0	388100	388115	15	8
Thursday	5/15/2019	0	76796	76796	0	0	388115	388173	58	29
Friday	5/16/2019	0	76796	76796	0	0	388173	388200	27	14
Saturday	5/17/2019	0	76796	76796	0	0	388200	388248	48	24
Sunday	5/18/2019	1 73	76796	76796	0	0	388248	388248	0	0
Monday	5/19/2019	0 01	76796	76796	0	0	388248	388248	0	0
Tuesday	5/20/2019	0 00	76796	76796	0	0	388248	388248	0	0
Wednesday	5/21/2019	1 14	76796	76796	0	0	388248	388248	0	0
Thursday	5/22/2019	0 00	76796	76796	0	0	388248	388248	0	0
Friday	5/23/2019	0 00	76796	76796	0	0	388248	388248	0	0
Saturday	5/24/2019	0 04	76796	76796	0	0	388248	388267	19	10
Sunday	5/25/2019	0 01	76796	76796	0	0	388267	388267	0	0
Monday	5/26/2019	0 00	76796	76796	0	0	388267	388267	0	0
Tuesday	5/27/2019	0 00	76796	76796	0	0	388267	388267	0	0
Wednesday	5/28/2019	0 00	76796	76796	0	0	388267	388318	51	26
Thursday	5/29/2019	0 81	76796	76796	0	0	388318	388318	0	0
Friday	5/30/2019	0 01	76796	76796	0	0	388318	388318	0	0
Saturday	5/31/2019	0 00	76796	76796	0	0	388318	388318	0	0
Sunday	6/1/2019	0 20	76796	76796	0	0	388318	388318	0	0
Monday	6/2/2019	0 00	76796	76796	0	0	388318	388318	0	0
Tuesday	6/3/2019	0 56	76796	76796	0	0	388318	388318	0	0
Wednesday	6/4/2019	0 36	76796	76796	0	0	388318	388318	0	0
Thursday	6/5/2019	0 60	76796	76796	0	0	388318	388318	0	0
Friday	6/6/2019	1 94	76796	76796	0	0	388318	388318	0	0
Saturday	6/7/2019	0 03	76796	76796	0	0	388318	388318	0	0
Sunday	6/8/2019	0 01	76796	76796	0	0	388318	388318	0	0
Monday	6/9/2019	0 74	76796	76796	0	0	388318	388318	0	0
Tuesday	6/10/2019	0 00	76796	76796	0	0	388318	388318	0	0
Wednesday	6/11/2019	0 00	76796	76796	0	0	388318	388318	0	0
Thursday	6/12/2019	0 17	76796	76796	0	0	388318	388318	0	0
Friday	6/13/2019	0 00	76796	76796	0	0	388318	388318	0	0
Saturday	6/14/2019	0 24	76796	76796	0	0	388318	388318	0	0
Sunday	6/15/2019	0 37	76796	76796	0	0	388318	388318	0	0
Monday	6/16/2019	1 12	76796	76796	0	0	388318	388318	0	0
Tuesday	6/17/2019	0 00	76796	76796	0	0	388318	388318	0	0
Wednesday	6/18/2019	0 00	76796	76796			388318	388318	191	96
Thursday	6/19/2019	0 82	76796	76796	0	0	388318	388318	0	0
Friday	6/20/2019	0 00	76796	76796	0	0	388318	388318	51	26
Saturday	6/21/2019	0 00	76796	76796	0	0	388318	388318	10	5
Sunday	6/22/2019	0 00	76796	76796	0	0	388318	388318	0	0
Monday	6/23/2019	0 80	76796	76796	0	0	388318	388318	0	0
Tuesday	6/24/2019	0 00	76796	76796	0	0	388318	388318	0	0
Wednesday	6/25/2019	0 00	76796	76796	0	0	388318	388318	0	0
Thursday	6/26/2019	0 00	76796	76796	0	0	388318	388318	0	0
Friday	6/27/2019	0 00	76796	76796	0	0	388318	388318	0	0
Saturday	6/28/2019	0 00	76796	76796	0	0	388318	388318	25	13
Sunday	6/29/2019	0 00	76796	76796	0	0	388318	388318	0	0
	6/30/2019	0 00	76796	76796			388318	388417		
<b>Totals</b>		<b>21.7</b>			<b>132 0</b>	<b>66 0</b>			<b>575 0</b>	<b>287.5</b>

Day/Date	MCD Rainfall Measurement
Monday, April 01, 2019	0 0
Tuesday, April 02, 2019	0 0
Wednesday, April 03, 2019	0 0
Thursday, April 04, 2019	0 1
Friday, April 05, 2019	0 0
Saturday, April 06, 2019	0 2
Sunday, April 07, 2019	0 0
<b>14</b>	<b>0.3</b>
Monday, April 08, 2019	0 0
Tuesday, April 09, 2019	0 0
Wednesday, April 10, 2019	0 0
Thursday, April 11, 2019	0 0
Friday, April 12, 2019	0 0
Saturday, April 13, 2019	2 0
Sunday, April 14, 2019	0 0
<b>15</b>	<b>2.0</b>
Monday, April 15, 2019	0 0
Tuesday, April 16, 2019	0 0
Wednesday, April 17, 2019	0 0
Thursday, April 18, 2019	0.0
Friday, April 19, 2019	0.0
Saturday, April 20, 2019	0.0
Sunday, April 21, 2019	0 0
<b>16</b>	<b>0.1</b>
Monday, April 22, 2019	0 0
Tuesday, April 23, 2019	0 1
Wednesday, April 24, 2019	0 0
Thursday, April 25, 2019	0 0
Friday, April 26, 2019	0 0
Saturday, April 27, 2019	0 0
Sunday, April 28, 2019	0 0
<b>17</b>	<b>0.1</b>
Monday, April 29, 2019	0 0
Tuesday, April 30, 2019	3 3
Wednesday, May 01, 2019	2 0
Thursday, May 02, 2019	0.2
Friday, May 03, 2019	0 1
Saturday, May 04, 2019	0 0
Sunday, May 05, 2019	0 0
<b>18</b>	<b>5.6</b>
Monday, May 06, 2019	0 0
Tuesday, May 07, 2019	0 0
Wednesday, May 08, 2019	1 5
Thursday, May 09, 2019	0 0
Friday, May 10, 2019	0 3
Saturday, May 11, 2019	0 2
Sunday, May 12, 2019	0 0
<b>19</b>	<b>1.9</b>
Monday, May 13, 2019	0 0
Tuesday, May 14, 2019	0 0
Wednesday, May 15, 2019	0 0
Thursday, May 16, 2019	0 0

Day/Date	MCD Rainfall Measurement
Friday, May 17, 2019	0.0
Saturday, May 18, 2019	1.7
Sunday, May 19, 2019	0.0
20	1.7
Monday, May 20, 2019	0.0
Tuesday, May 21, 2019	1.1
Wednesday, May 22, 2019	0.0
Thursday, May 23, 2019	0.0
Friday, May 24, 2019	0.0
Saturday, May 25, 2019	0.0
Sunday, May 26, 2019	0.0
21	1.2
Monday, May 27, 2019	0.0
Tuesday, May 28, 2019	0.0
Wednesday, May 29, 2019	0.8
Thursday, May 30, 2019	0.0
Friday, May 31, 2019	0.0
Saturday, June 01, 2019	0.2
Sunday, June 02, 2019	0.0
22	1.0
Monday, June 03, 2019	0.6
Tuesday, June 04, 2019	0.4
Wednesday, June 05, 2019	0.6
Thursday, June 06, 2019	1.9
Friday, June 07, 2019	0.0
Saturday, June 08, 2019	0.0
Sunday, June 09, 2019	0.7
23	4.2
Monday, June 10, 2019	0.0
Tuesday, June 11, 2019	0.0
Wednesday, June 12, 2019	0.2
Thursday, June 13, 2019	0.0
Friday, June 14, 2019	0.2
Saturday, June 15, 2019	0.4
Sunday, June 16, 2019	1.1
24	1.9
Monday, June 17, 2019	0.0
Tuesday, June 18, 2019	0.0
Wednesday, June 19, 2019	0.8
Thursday, June 20, 2019	0.0
Friday, June 21, 2019	0.0
Saturday, June 22, 2019	0.0
Sunday, June 23, 2019	0.8
25	1.6
Monday, June 24, 2019	0.0
Tuesday, June 25, 2019	0.0
Wednesday, June 26, 2019	0.0
Thursday, June 27, 2019	0.0
Friday, June 28, 2019	0.0
Saturday, June 29, 2019	0.0
Sunday, June 30, 2019	0.0
26	0.0

**RECEIVED**

OCT 10 2019