



MILL CREEK DOLOMITE, LLC.

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

03/29/2021

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APR 01 2021

Oklahoma Water Resources Board

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

Re: 2020 Annual Consumptive Use of Pit Water

Dear Mr. Wilkins;

As required under **Oklahoma Statute 82-1020.2 (E) (1)** and **Oklahoma Administrative Code 785:30-15**, Mill Creek Dolomite is respectfully submitting the water report for the calendar year 2020.

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

Sincerely,

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

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CONSUMPTIVE USE REPORT

2020 Year End

MILL CREEK DOLOMITE, LLC
MILL CREEK MINE & MILL

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Oklahoma Water Resources Board

TABLE 1: Estimated Consumptive Use of Pit Water

PIT GROUNDWATER VOLUME		VALUES (Gal)
1	Total volume of water pumped from the producing mine pit (s)	95,976,815
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	94,969,722
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	94,969,722
6	Pit Ground Water Volume (Line 1 minus Line 5)	1,007,093
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	132,565
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)	9,684,207
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	1,542,001
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	11,358,773
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	-10,351,680
13	Groundwater Augmentation: Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
14	Stream Augmentation: 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	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
17	Other Non-Consumptive Losses 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	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	-10,351,680
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	1,007,093



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

Oklahoma Water Resources Board

Re: Consumptive Use of Pit Water 4th Quarter Report 2020

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 fourth quarter of calendar year 2020.

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

4th Quarter 2020

MILL CREEK DOLOMITE, LLC
MILL CREEK MINE & MILL

Oklahoma Water Resources Board

TABLE 1: Estimated Consumptive Use of Pit Water

PIT GROUNDWATER VOLUME		VALUES (Gal)
1	Total volume of water pumped from the producing mine pit (s)	21,816,857
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	8,116,214
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	8,116,214
6	Pit Ground Water Volume (Line 1 minus Line 5)	13,700,643
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	38,890
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)	1,629,647
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	57,313
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	1,725,850
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	11,974,793
13	Groundwater Augmentation: Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
14	Stream Augmentation: 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	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
17	Other Non-Consumptive Losses 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	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	11,974,793
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use. (Line 11 plus Line 19)	13,700,643

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MILL CREEK DOLOMITE, LLC														
PIT WATER MONITORING DATA														
SUMP SURFACE AREA DATA: SUMP A (sq ft) 2,163,342 SUMP B (sq ft) 1,051,207 PUMP A (GPM) 500 PUMP B (GPM) 500 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
10/11/20	40	1	163.0		24.0	698,571	102,857	801,429	0.0	1,803	13,487	876	6,553	20,040
10/18/20	41	1	150.0		32.0	642,857	137,143	780,000	0.0	0	0	0	0	0
10/25/20	42	1	83.0		33.0	355,714	141,429	497,143	0.1	19,831	148,353	9,636	72,087	220,440
11/1/20	43	1	123.0		34.0	527,143	145,714	672,857	1.4	243,376	1,820,696	118,261	884,709	2,705,405
Monthly Totals			519.0		123.0	10,342,929	1,634,143	11,977,071	1.47	265,009	1,982,535	128,773	963,350	2,945,885
11/8/20	44	1	85.0		30.0	364,286	128,571	492,857	0.0	0	0	0	0	0
11/15/20	45	1	75.0		36.0	321,429	154,286	475,714	0.1	18,028	134,866	8,760	65,534	200,400
11/22/20	46	1	68.0		30.0	291,429	128,571	420,000	0.2	36,056	269,733	17,520	131,068	400,801
11/29/20	47	1	19.0		19.0	81,429	81,429	162,857	1	174,870	1,308,204	84,973	635,680	1,943,883
12/6/20	48	1	13.0		17.0	55,714	72,857	128,571	0	12,619	94,406	6,132	45,874	140,280
Monthly Totals			260.0		132.0	4,011,429	1,357,714	5,369,143	1.3	241,573	1,807,209	117,385	878,156	2,685,365
12/13/20	49	1	34.0		32.0	145,714	137,143	282,857	0.97	174,870	1,308,204	84,973	635,680	1,943,883
12/20/20	50	1	33.0		61.0	141,429	261,429	402,857	0.14	25,239	188,813	12,264	91,748	280,560
12/27/20	51	1	23.0		13.0	98,571	55,714	154,286	0.00	0	0	0	0	0
1/3/21	52	1	31.0		49.0	132,857	210,000	342,857	0.13	23,436	175,326	11,388	85,194	260,520
Monthly Totals			121.0		155.0	2,411,357	2,059,286	4,470,643	1.24	223,545	1,672,343	108,625	812,622	2,484,964
4th QUARTER TOTALS			900.0		410.0	16,765,714	5,051,143	21,816,857	4.05	730,128	5,462,087	354,782	2,654,127	8,116,214

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**MILL CREEK DOLOMITE, LLC
PIT WATER MONITORING DATA
4th Quarter 2020**

Oklahoma Water Resources Board

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
October	28,754	0.2
November	15,764	0.4
December	14,000	0.4
	<u>58,518</u>	

Calculations for gallons of water shipped to plant:

	Tons	Moisture	Tons H2O	Lbs H2O
October	21168	X 0.002 =	42	84,672
November	15764	X 0.004 =	63	126,112
December	14000	X 0.004 =	56	112,000
				<u>322,784</u>
Total Lbs	322,784			
Gallons	322,784	/ 8.3 =	38,890	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)

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Oklahoma Water Resources Research Center

PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC

EVAPORATION

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

Oct-20		Corrected Evaporation Rate (in)											
Pan Evaporation (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)			
10/1/2020	0.26	0.182	196.03	1466.49	3985.83	29818.00	455.00	3403.86	530.83	3971.16	38659.51		
10/2/2020	0.15	0.105	113.09	846.05	2299.52	17202.69	362.50	1963.76	306.25	2291.06	22303.56		
10/3/2020	0.19	0.133	143.25	1071.67	2912.72	21790.07	332.50	2487.43	387.92	2902.00	28251.18		
10/4/2020	0.21	0.147	158.33	1184.48	3219.32	24083.77	367.50	2749.27	428.75	3207.48	31224.99		
10/5/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47		
10/6/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47		
10/7/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47		
10/8/2020	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37		
10/9/2020	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76		
10/10/2020	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76		
10/11/2020	0.2	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08		
10/12/2020	0.26	0.182	196.03	1466.49	3985.83	29818.00	455.00	3403.86	530.83	3971.16	38659.51		
10/13/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47		
10/14/2020	0.22	0.154	165.87	1240.88	3372.63	25230.61	385.00	2880.19	449.17	3360.22	32711.89		
10/15/2020	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13		
10/16/2020	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37		
10/17/2020	0.19	0.133	143.25	1071.67	2912.72	21790.07	332.50	2487.43	387.92	2902.00	28251.18		
10/18/2020	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04		
10/19/2020	0.06	0.042	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43		
10/20/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47		
10/21/2020	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37		
10/22/2020	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37		
10/23/2020	0.2	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08		
10/24/2020	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04		
10/25/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71		
10/26/2020	0.04	0.028	30.16	225.61	613.20	4587.38	70.00	523.67	81.67	610.95	5947.62		
10/27/2020	0.02	0.014	15.08	112.81	306.60	2293.69	35.00	261.84	40.83	305.47	2973.81		
10/28/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71		
10/29/2020	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04		
10/30/2020	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04		
10/31/2020	0.12	0.084	90.48	676.84	1839.61	13762.15	210.00	1571.01	245.00	1832.85	17842.85		
Monthly Total			3,483.29	26,058.47	70,825.14	529,842.86	8,085.00	60,483.89	9,432.50	70,564.53	686,949.76		

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Oklahoma Water Resources Research Center

PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC
EVAPORATION

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

Date	Nov-20		Corrected Evaporation Rate (in)	Sump A		Sump B		Settling A		Settling B		Total Evaporation (Gallons)
	Pan Evaporation (in)	Evaporation Volume (cu ft)		Evaporation Volume (cu ft)	(Gallons)	Evaporation Volume (cu ft)	(Gallons)	Evaporation Volume (cu ft)	(Gallons)	Evaporation Volume (cu ft)	(Gallons)	
11/01/20	0.16	120.63	0.112	82.94	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47
11/02/20	0.11	82.94	0.077	113.09	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/03/20	0.15	113.09	0.105	120.63	846.05	2299.52	17202.69	262.50	1963.76	306.25	2291.06	22303.56
11/04/20	0.16	120.63	0.112	82.94	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47
11/05/20	0.11	82.94	0.077	113.09	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/06/20	0.11	82.94	0.077	113.09	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/07/20	0.12	90.48	0.084	82.94	676.84	1839.61	13762.15	210.00	1571.01	245.00	1832.85	17842.85
11/08/20	0.11	82.94	0.077	113.09	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/09/20	0.17	128.17	0.119	82.94	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37
11/10/20	0.11	82.94	0.077	113.09	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/11/20	0.12	90.48	0.084	82.94	676.84	1839.61	13762.15	210.00	1571.01	245.00	1832.85	17842.85
11/12/20	0.16	120.63	0.112	82.94	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47
11/13/20	0.09	67.86	0.063	135.71	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
11/14/20	0.18	135.71	0.126	143.25	1015.27	2759.42	20643.23	315.00	2356.52	367.50	2749.27	26764.28
11/15/20	0.19	143.25	0.133	67.86	1071.67	2912.72	21790.07	332.50	2487.43	387.92	2902.00	28251.18
11/16/20	0.09	67.86	0.063	90.48	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
11/17/20	0.12	90.48	0.084	158.33	1184.48	3219.32	24083.77	367.50	2749.27	428.75	3207.48	31224.99
11/18/20	0.21	158.33	0.147	143.25	1071.67	2912.72	21790.07	332.50	2487.43	387.92	2902.00	28251.18
11/19/20	0.19	143.25	0.133	90.48	676.84	1839.61	13762.15	210.00	1571.01	245.00	1832.85	17842.85
11/20/20	0.12	90.48	0.084	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
11/21/20	0.06	45.24	0.042	30.16	225.61	613.20	4587.38	70.00	523.67	81.67	610.95	5947.62
11/22/20	0.04	30.16	0.028	52.78	394.83	1073.11	8027.92	122.50	916.42	142.92	1069.16	10408.33
11/23/20	0.07	52.78	0.049	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
11/24/20	0.06	45.24	0.042	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04
11/25/20	0.1	75.40	0.07	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/26/20	0.11	82.94	0.077	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76
11/27/20	0.13	98.01	0.091	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
11/28/20	0.11	82.94	0.077	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
11/29/20	0.09	67.86	0.063	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04
11/30/20	0.1	75.40	0.07									
Monthly Total			0	2,751.95	20,587.32	55,954.93	418,598.80	6,387.50	47,784.89	7,452.08	55,749.04	542,720.05

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PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC
EVAPORATION

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

Alabama Water Resources Inc.

Dec-20											
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)
12/1/2020	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
12/2/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71
12/3/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71
12/4/2020	0.06	0.042	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
12/5/2020	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
12/6/2020	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
12/7/2020	0.08	0.056	60.32	451.23	1226.41	9174.77	140.00	1047.34	163.33	1221.90	11895.23
12/8/2020	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76
12/9/2020	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04
12/10/2020	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76
12/11/2020	0.04	0.028	30.16	225.61	613.20	4587.38	70.00	523.67	81.67	610.95	5947.62
12/12/2020	0.06	0.042	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
12/13/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71
12/14/2020	0.05	0.035	37.70	282.02	766.51	5734.23	87.50	654.59	102.08	763.69	7434.52
12/15/2020	0.02	0.014	15.08	112.81	306.60	2293.69	35.00	261.84	40.83	305.47	2973.81
12/16/2020	0.03	0.021	22.62	169.21	459.90	3440.54	52.50	392.75	61.25	458.21	4460.71
12/17/2020	0.07	0.049	52.78	394.83	1073.11	8027.92	122.50	916.42	142.92	1069.16	10408.33
12/18/2020	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
12/19/2020	0.05	0.035	37.70	282.02	766.51	5734.23	87.50	654.59	102.08	763.69	7434.52
12/20/2020	0.08	0.056	60.32	451.23	1226.41	9174.77	140.00	1047.34	163.33	1221.90	11895.23
12/21/2020	0.08	0.056	60.32	451.23	1226.41	9174.77	140.00	1047.34	163.33	1221.90	11895.23
12/22/2020	0.14	0.098	105.55	789.65	2146.22	16055.84	245.00	1832.85	285.83	2138.32	20816.66
12/23/2020	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47
12/24/2020	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76
12/25/2020	0.08	0.056	60.32	451.23	1226.41	9174.77	140.00	1047.34	163.33	1221.90	11895.23
12/26/2020	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37
12/27/2020	0.18	0.126	135.71	1015.27	2759.42	20643.23	315.00	2356.52	367.50	2749.27	26764.28
12/28/2020	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
12/29/2020	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
12/30/2020	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
12/31/2020	0.05	0.035	37.70	282.02	766.51	5734.23	87.50	654.59	102.08	763.69	7434.52
Monthly Total			2,028.15	15,172.57	41,238.01	308,501.58	4,707.50	35,216.81	5,492.08	41,086.28	399,977.24
Quarterly Total			8,263.38	61,818.37	168,018.08	1,256,943.25	19,180.00	143,485.58	22,376.67	167,399.84	1,629,647.04

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Mesonet
Seasonal Single Site ET Table
Tishomingo
4th Quarter 2020

Oklahoma Water Resources Board

Date	Reference ET, Short [in]	Reference ET, Tall [in]	Cool Season Grass ET [in]	Warm Season Grass ET [in]	Pan Evaporation [in]
12/31/2020	0.04	0.05	0.03	0.02	0.05
12/30/2020	0.08	0.13	0.07	0.05	0.11
12/29/20	0.07	0.1	0.06	0.04	0.09
12/28/20	0.08	0.13	0.08	0.05	0.11
12/27/20	0.13	0.2	0.12	0.08	0.18
12/26/20	0.13	0.2	0.12	0.08	0.17
12/25/20	0.06	0.09	0.06	0.04	0.08
12/24/20	0.09	0.15	0.08	0.06	0.13
12/23/20	0.11	0.17	0.1	0.07	0.16
12/22/20	0.1	0.16	0.1	0.06	0.14
12/21/20	0.07	0.1	0.06	0.04	0.08
12/20/20	0.07	0.1	0.06	0.04	0.08
12/19/20	0.04	0.06	0.04	0.03	0.05
12/18/20	0.07	0.11	0.06	0.04	0.09
12/17/20	0.05	0.08	0.05	0.03	0.07
12/16/20	0.03	0.03	0.02	0.02	0.03
12/15/20	0.01	0.01	0.01	0.01	0.02
12/14/20	0.04	0.05	0.04	0.02	0.05
12/13/20	0.02	0.03	0.02	0.01	0.03
12/12/20	0.05	0.06	0.04	0.03	0.06
12/11/20	0.03	0.04	0.03	0.02	0.04
12/10/20	0.1	0.17	0.1	0.06	0.13
12/9/20	0.08	0.12	0.07	0.05	0.1
12/8/20	0.09	0.15	0.09	0.06	0.13
12/7/20	0.07	0.1	0.06	0.04	0.08
12/6/20	0.08	0.13	0.08	0.05	0.11
12/5/20	0.07	0.11	0.07	0.04	0.09
12/4/20	0.05	0.07	0.04	0.03	0.06
12/3/20	0.03	0.04	0.03	0.02	0.03
12/2/20	0.03	0.04	0.03	0.02	0.03
12/1/20	0.09	0.13	0.08	0.05	0.11
11/30/20	0.07	0.12	0.07	0.05	0.1
11/29/20	0.07	0.1	0.06	0.04	0.09
11/28/20	0.08	0.12	0.08	0.05	0.11
11/27/20	0.1	0.15	0.09	0.06	0.13
11/26/20	0.08	0.13	0.08	0.05	0.11
11/25/20	0.08	0.12	0.07	0.05	0.1
11/24/20	0.05	0.07	0.04	0.03	0.06
11/23/20	0.05	0.08	0.05	0.03	0.07
11/22/20	0.03	0.04	0.03	0.02	0.04
11/21/20	0.05	0.06	0.04	0.03	0.06
11/20/20	0.09	0.13	0.09	0.06	0.12
11/19/20	0.13	0.21	0.12	0.08	0.19
11/18/20	0.15	0.23	0.14	0.09	0.21
11/17/20	0.09	0.14	0.09	0.06	0.12
11/16/20	0.07	0.1	0.07	0.04	0.09
11/15/20	0.13	0.2	0.12	0.08	0.19

11/14/20	0 13	0 21	0 12	0 08	0 16
11/13/20	0 07	0 11	0 07	0 05	0 09
11/12/20	0 12	0 19	0 12	0 08	0 16
11/11/20	0 1	0 14	0 09	0 06	0 12
11/10/20	0 09	0 12	0 08	0 05	0 11
11/9/20	0 12	0 18	0 11	0 08	0 17
11/8/20	0 08	0 12	0 08	0 05	0 11
11/7/20	0 1	0 13	0 09	0 06	0 12
11/6/20	0 09	0 12	0 08	0 06	0 11
11/5/20	0 09	0 12	0 08	0 06	0 11
11/4/20	0 12	0 18	0 11	0 08	0 16
11/3/20	0 12	0 17	0 11	0 07	0 15
11/2/20	0 09	0 13	0 08	0 06	0 11
11/1/20	0 12	0 18	0 11	0 07	0 16
10/31/20	0 1	0 14	0 09	0 06	0 12
10/30/20	0 08	0 1	0 07	0 05	0 1
10/29/20	0 08	0 12	0 08	0 05	0 1
10/28/20	0 02	0 03	0 02	0 01	0 03
10/27/20	0 02	0 02	0 02	0 01	0 02
10/26/20	0 03	0 04	0 03	0 02	0 04
10/25/20	0 02	0 03	0 02	0 01	0 03
10/24/20	0 08	0 11	0 08	0 05	0 1
10/23/20	0 14	0 22	0 13	0 09	0 2
10/22/20	0 13	0 18	0 12	0 08	0 17
10/21/20	0 13	0 18	0 12	0 08	0 17
10/20/20	0 13	0 18	0 12	0 08	0 16
10/19/20	0 05	0 07	0 05	0 03	0 06
10/18/20	0 08	0 11	0 07	0 05	0 1
10/17/20	0 14	0 2	0 13	0 09	0 19
10/16/20	0 13	0 18	0 12	0 08	0 17
10/15/20	0 2	0 31	0 19	0 13	0 3
10/14/20	0 17	0 24	0 16	0 1	0 22
10/13/20	0 13	0 17	0 12	0 08	0 16
10/12/20	0 18	0 27	0 17	0 11	0 26
10/11/20	0 16	0 21	0 15	0 1	0 2
10/10/20	0 11	0 12	0 1	0 07	0 13
10/9/20	0 11	0 13	0 1	0 07	0 13
10/8/20	0 14	0 17	0 13	0 09	0 17
10/7/20	0 13	0 16	0 12	0 08	0 16
10/6/20	0 13	0 17	0 12	0 08	0 16
10/5/20	0 13	0 16	0 12	0 08	0 16
10/4/20	0 15	0 21	0 14	0 09	0 21
10/3/20	0 15	0 2	0 14	0 09	0 19
10/2/20	0 12	0 16	0 11	0 08	0 15
10/1/20	0 18	0 27	0 17	0 11	0 26

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MILL CREEK DOLOMITE WATER USAGE LOG
4TH QUARTER 2020

	Water Truck										Western Star				
	Rental					Loads					START	END	MILES	Loads	
DATE	RAINFALL	START	END	MILES	Loads	DATE	RAINFALL	START	END	MILES	Loads	START	END	MILES	Loads
Thursday	0	2396	2396	0	0	10/1/2020	0	2396	2396	0	0	388362	388362	0	0
Friday	0	2396	2396	0	0	10/2/2020	0	2396	2396	0	0	388362	388362	0	0
Saturday	0	2396	2396	0	0	10/3/2020	0	2396	2396	0	0	388362	388362	0	0
Sunday	0	2396	2396	0	0	10/4/2020	0	2396	2396	0	0	388362	388362	0	0
Monday	0	2396	2402	6	2	10/5/2020	0	2396	2402	6	2	388362	388362	0	0
Tuesday	0	2402	2402	0	0	10/6/2020	0	2402	2402	0	0	388362	388362	0	0
Wednesday	0	2402	2402	0	0	10/7/2020	0	2402	2402	0	0	388362	388362	0	0
Thursday	0	2402	2402	0	0	10/8/2020	0	2402	2402	0	0	388362	388362	0	0
Friday	0	2402	2402	0	0	10/9/2020	0	2402	2402	0	0	388362	388362	0	0
Saturday	0	2402	2402	0	0	10/10/2020	0	2402	2402	0	0	388362	388362	0	0
Sunday	0.01	2402	2402	0	0	10/11/2020	0.01	2402	2402	0	0	388362	388362	0	0
Monday	0	2402	2408	6	1	10/12/2020	0	2402	2408	6	1	388362	388362	0	0
Tuesday	0	2408	2415	7	1	10/13/2020	0	2408	2415	7	1	388362	388362	0	0
Wednesday	0	2415	2415	0	0	10/14/2020	0	2415	2415	0	0	388362	388362	0	0
Thursday	0	29203	29218	15	2	10/15/2020	0	29203	29218	15	2	388362	388362	0	0
Friday	0	29218	29228	10	1	10/16/2020	0	29218	29228	10	1	388362	388362	0	0
Saturday	0	29228	29228	0	0	10/17/2020	0	29228	29228	0	0	388362	388362	0	0
Sunday	0	29228	29228	0	0	10/18/2020	0	29228	29228	0	0	388362	388362	0	0
Monday	0	29228	29228	0	0	10/19/2020	0	29228	29228	0	0	388362	388362	0	0
Tuesday	0.02	29228	29228	0	0	10/20/2020	0.02	29228	29228	0	0	388362	388362	0	0
Wednesday	0	29228	29228	0	0	10/21/2020	0	29228	29228	0	0	388362	388362	0	0
Thursday	0	29228	29256	28	4	10/22/2020	0	29228	29256	28	4	388362	388362	0	0
Friday	0.04	29256	29256	0	0	10/23/2020	0.04	29256	29256	0	0	388362	388362	0	0
Saturday	0	29256	29256	0	0	10/24/2020	0	29256	29256	0	0	388362	388362	0	0
Sunday	0.05	29256	29256	0	0	10/25/2020	0.05	29256	29256	0	0	388362	388362	0	0
Monday	0.61	29256	29256	0	0	10/26/2020	0.61	29256	29256	0	0	388362	388362	0	0
Tuesday	0.31	29256	29256	0	0	10/27/2020	0.31	29256	29256	0	0	388362	388362	0	0
Wednesday	0.41	29256	29256	0	0	10/28/2020	0.41	29256	29256	0	0	388362	388362	0	0
Thursday	0.02	29256	29256	0	0	10/29/2020	0.02	29256	29256	0	0	388362	388362	0	0
Friday	0	29256	29256	0	0	10/30/2020	0	29256	29256	0	0	388362	388362	0	0
Saturday	0	29256	29256	0	0	10/31/2020	0	29256	29256	0	0	388362	388362	0	0
Sunday	0	29256	29256	0	0	11/1/2020	0	29256	29256	0	0	388362	388362	0	0
Monday	0	29256	29256	0	0	11/2/2020	0	29256	29256	0	0	388362	388362	0	0
Tuesday	0	29256	29256	0	0	11/3/2020	0	29256	29256	0	0	388362	388362	0	0
Wednesday	0	29256	29256	0	0	11/4/2020	0	29256	29256	0	0	388362	388362	0	0
Thursday	0	29256	29256	0	0	11/5/2020	0	29256	29256	0	0	388362	388362	0	0
Friday	0	29256	29256	0	0	11/6/2020	0	29256	29256	0	0	388362	388362	0	0
Saturday	0	29256	29256	0	0	11/7/2020	0	29256	29256	0	0	388362	388362	0	0
Sunday	0	29256	29256	0	0	11/8/2020	0	29256	29256	0	0	388362	388362	0	0
Monday	0	29256	29256	0	0	11/9/2020	0	29256	29256	0	0	388362	388362	0	0
Tuesday	0	29256	29256	0	0	11/10/2020	0	29256	29256	0	0	388362	388362	0	0
Wednesday	0	29256	29280	24	3	11/11/2020	0	29256	29280	24	3	388362	388362	0	0
Thursday	0	29280	29280	0	0	11/12/2020	0	29280	29280	0	0	388362	388362	0	0

WELL			
DATE	WK	Meter Reading	Ag Lime Hours RAN
7/12/20	27	11062	0.0
7/19/20	28	11062	0.0
7/26/20	29	11062	0.0
8/2/20	30	11062	0.0
8/9/20	31	11062	0.0
8/16/20	32	11062	0.0
8/23/20	33	11062	0.0
8/30/20	34	11062	0.0
9/6/20	35	11062	0.0
9/13/20	36	11062	0.0
9/20/20	37	11062	0.0
9/27/20	38	11062	0.0
10/4/20	39	11062	0.0
Total		0	0.0
Total gallons (@ 476.47/hr) 0			

Water Truck Summary			
Rental	Load	Gallons	
Western Star	1 = 3,500		
	1 = 3,500		
Rental	16	57,313	
Western Star	0	0	
3rd QUARTER TOTAL 57,313			

WELL				PU - 21		Ag Lime	
DATE	WK	Meter Reading	Hours RAN	DATE	WK	Meter Reading	Hours RAN
7/12/20	27	11062	0.0	7/12/20	27	11062	0.0
7/19/20	28	11062	0.0	7/19/20	28	11062	0.0
7/26/20	29	11062	0.0	7/26/20	29	11062	0.0
8/2/20	30	11062	0.0	8/2/20	30	11062	0.0
8/9/20	31	11062	0.0	8/9/20	31	11062	0.0
8/16/20	32	11062	0.0	8/16/20	32	11062	0.0
8/23/20	33	11062	0.0	8/23/20	33	11062	0.0
8/30/20	34	11062	0.0	8/30/20	34	11062	0.0
9/6/20	35	11062	0.0	9/6/20	35	11062	0.0
9/13/20	36	11062	0.0	9/13/20	36	11062	0.0
9/20/20	37	11062	0.0	9/20/20	37	11062	0.0
9/27/20	38	11062	0.0	9/27/20	38	11062	0.0
10/4/20	39	11062	0.0	10/4/20	39	11062	0.0
Total		0	0	Total		0	0
Total gallons (@ 476.47/hr)				0			

Water Truck Summary			
Rental	Load	Gallons	
Western Star	1 = 3,500		
	1 = 3,500		
Rental	16	57,313	
Western Star	0	0	
3rd QUARTER TOTAL		57,313	

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Friday	11/13/2020	0.05	29280	29280	0	0	388362	388362	0	0
Saturday	11/14/2020	0	29280	29280	0	0	388362	388362	0	0
Sunday	11/15/2020	0	29280	29280	0	0	388362	388362	0	0
Monday	11/16/2020	0	29280	29280	0	0	388362	388362	0	0
Tuesday	11/17/2020	0.00	29280	29280	0	0	388362	388362	0	0
Wednesday	11/18/2020	0.00	29280	29286	6	1	388362	388362	0	0
Thursday	11/19/2020	0.00	29286	29286	0	0	388362	388362	0	0
Friday	11/20/2020	0.00	29286	29293	7	1	388362	388362	0	0
Saturday	11/21/2020	0.00	29293	29293	0	0	388362	388362	0	0
Sunday	11/22/2020	0.20	29293	29293	0	0	388362	388362	0	0
Monday	11/23/2020	0.00	29293	29293	0	0	388362	388362	0	0
Tuesday	11/24/2020	0.80	29293	29293	0	0	388362	388362	0	0
Wednesday	11/25/2020	0.00	29293	29293	0	0	388362	388362	0	0
Thursday	11/26/2020	0.00	29293	29293	0	0	388362	388362	0	0
Friday	11/27/2020	0.00	29293	29293	0	0	388362	388362	0	0
Saturday	11/28/2020	0.17	29293	29293	0	0	388362	388362	0	0
Sunday	11/29/2020	0.00	29293	29293	0	0	388362	388362	0	0
Monday	11/30/2020	0.00	29293	29293	0	0	388362	388362	0	0
Tuesday	12/1/2020	0.00	29293	29293	0	0	388362	388362	0	0
Wednesday	12/2/2020	0.06	29293	29293	0	0	388362	388362	0	0
Thursday	12/3/2020	0.00	29293	29293	0	0	388362	388362	0	0
Friday	12/4/2020	0.00	29293	29293	0	0	388362	388362	0	0
Saturday	12/5/2020	0.01	29293	29293	0	0	388362	388362	0	0
Sunday	12/6/2020	0.00	29293	29293	0	0	388362	388362	0	0
Monday	12/7/2020	0.00	29293	29293	0	0	388362	388362	0	0
Tuesday	12/8/2020	0.00	29293	29293	0	0	388362	388362	0	0
Wednesday	12/9/2020	0.00	29293	29293	0	0	388362	388362	0	0
Thursday	12/10/2020	0.00	29293	29309	16	2	388362	388362	0	0
Friday	12/11/2020	0.18	29309	29309	0	0	388362	388362	0	0
Saturday	12/12/2020	0.00	29309	29309	0	0	388362	388362	0	0
Sunday	12/13/2020	0.79	29309	29309	0	0	388362	388362	0	0
Monday	12/14/2020	0.01	29309	29309	0	0	388362	388362	0	0
Tuesday	12/15/2020	0.02	29309	29309	0	0	388362	388362	0	0
Wednesday	12/16/2020	0.01	29309	29309	0	0	388362	388362	0	0
Thursday	12/17/2020	0.10	29309	29309	0	0	388362	388362	0	0
Friday	12/18/2020	0.00	29309	29309	0	0	388362	388362	0	0
Saturday	12/19/2020	0.00	29309	29309	0	0	388362	388362	0	0
Sunday	12/20/2020	0.00	29309	29309	0	0	388362	388362	0	0
Monday	12/21/2020	0.00	29309	29309	0	0	388362	388362	0	0
Tuesday	12/22/2020	0.00	29309	29309	0	0	388362	388362	0	0
Wednesday	12/23/2020	0.00	29309	29321	12	2	388362	388362	0	0
Thursday	12/24/2020	0.00	29321	29321	0	0	388362	388362	0	0
Friday	12/25/2020	0.00	29321	29321	0	0	388362	388362	0	0
Saturday	12/26/2020	0.00	29321	29321	0	0	388362	388362	0	0
Sunday	12/27/2020	0.00	29321	29321	0	0	388362	388362	0	0
Monday	12/28/2020	0.00	29321	29321	0	0	388362	388362	0	0
Tuesday	12/29/2020	0.00	29321	29321	0	0	388362	388362	0	0
Wednesday	12/30/2020	0.00	29321	29321	0	0	388362	388362	0	0
Thursday	12/31/2020	0.00	29309	29321	12	2	388362	388362	0	0
Totals		3.9			149.0	19.4			0.0	0.0

RECEIVED

APR 01 2021

Yahoma Water Resources Board

Day/Date	MCD Rainfall Measurement
Monday, September 28, 2020	0.0
Tuesday, September 29, 2020	0.0
Wednesday, September 30, 2020	0.0
Thursday, October 01, 2020	0.0
Friday, October 02, 2020	0.0
Saturday, October 03, 2020	0.0
Sunday, October 04, 2020	0.0
39	0
Monday, October 05, 2020	0.0
Tuesday, October 06, 2020	0.0
Wednesday, October 07, 2020	0.0
Thursday, October 08, 2020	0.0
Friday, October 09, 2020	0.0
Saturday, October 10, 2020	0.0
Sunday, October 11, 2020	0.0
40	0.01
Monday, October 12, 2020	0.0
Tuesday, October 13, 2020	0.0
Wednesday, October 14, 2020	0.0
Thursday, October 15, 2020	0.0
Friday, October 16, 2020	0.0
Saturday, October 17, 2020	0.0
Sunday, October 18, 2020	0.0
41	0
Monday, October 19, 2020	0.0
Tuesday, October 20, 2020	0.0
Wednesday, October 21, 2020	0.0
Thursday, October 22, 2020	0.0
Friday, October 23, 2020	0.0
Saturday, October 24, 2020	0.0
Sunday, October 25, 2020	0.1
42	0.11
Monday, October 26, 2020	0.6
Tuesday, October 27, 2020	0.3
Wednesday, October 28, 2020	0.4
Thursday, October 29, 2020	0.0
Friday, October 30, 2020	0.0
Saturday, October 31, 2020	0.0
Sunday, November 01, 2020	0.0
43	1.35
Monday, November 02, 2020	0.0
Tuesday, November 03, 2020	0.0
Wednesday, November 04, 2020	0.0
Thursday, November 05, 2020	0.0
Friday, November 06, 2020	0.0
Saturday, November 07, 2020	0.0
Sunday, November 08, 2020	0.0
44	0
Monday, November 09, 2020	0.0
Tuesday, November 10, 2020	0.0
Wednesday, November 11, 2020	0.0
Thursday, November 12, 2020	0.0
Friday, November 13, 2020	0.1
Saturday, November 14, 2020	0.0
Sunday, November 15, 2020	0.0
45	0.05
Monday, November 16, 2020	0.0
Tuesday, November 17, 2020	0.0

RECEIVED

APR 01 2021

Oklahoma Water Resources Re-

Day/Date	MCD Rainfall Measurement
Wednesday, November 18, 2020	0.0
Thursday, November 19, 2020	0.0
Friday, November 20, 2020	0.0
Saturday, November 21, 2020	0.0
Sunday, November 22, 2020	0.2
46	0.2
Monday, November 23, 2020	0.0
Tuesday, November 24, 2020	0.8
Wednesday, November 25, 2020	0.0
Thursday, November 26, 2020	0.0
Friday, November 27, 2020	0.0
Saturday, November 28, 2020	0.2
Sunday, November 29, 2020	0.0
47	0.97
Monday, November 30, 2020	0.0
Tuesday, December 01, 2020	0.0
Wednesday, December 02, 2020	0.1
Thursday, December 03, 2020	0.0
Friday, December 04, 2020	0.0
Saturday, December 05, 2020	0.0
Sunday, December 06, 2020	0.0
48	0.07
Monday, December 07, 2020	0.0
Tuesday, December 08, 2020	0.0
Wednesday, December 09, 2020	0.0
Thursday, December 10, 2020	0.0
Friday, December 11, 2020	0.2
Saturday, December 12, 2020	0.0
Sunday, December 13, 2020	0.8
49	0.97
Monday, December 14, 2020	0.0
Tuesday, December 15, 2020	0.0
Wednesday, December 16, 2020	0.0
Thursday, December 17, 2020	0.1
Friday, December 18, 2020	0.0
Saturday, December 19, 2020	0.0
Sunday, December 20, 2020	0.0
50	0.14
Monday, December 21, 2020	0.0
Tuesday, December 22, 2020	0.0
Wednesday, December 23, 2020	0.0
Thursday, December 24, 2020	0.0
Friday, December 25, 2020	0.0
Saturday, December 26, 2020	0.0
Sunday, December 27, 2020	0.0
51	0
Monday, December 28, 2020	0.0
Tuesday, December 29, 2020	0.0
Wednesday, December 30, 2020	0.0
Thursday, December 31, 2020	0.0
Friday, January 01, 2021	0.1
Saturday, January 02, 2021	0.0
Sunday, January 03, 2021	0.0
52	0.13