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Oklahoma Water Resources Board

MILL CREEK DOLOMITE, LLC.

P. O. Box 2668
Winnemucca, NV 89446
(775) 623-9117

9915 W. Amos Conley Road
Mill Creek, OK 74856
(580) 384-5271

9/24/2014

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 2014

Dear Mr. Wilkins;

As required under **Oklahoma Statue 82-1020.2 (E) (1) and Oklahoma Administrative Code 785:30-15,** Mill Creek Dolomite is respectively submitting the water report for the second quarter of calendar year 2014.

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

Sincerely,

Bill Rogers

Bill Rogers
General Manager
Mill Creek Dolomite, LLC

Attachments: Quarterly Report, 2nd Quarter 2014

CONSUMPTIVE USE REPORT
2nd QUARTER, 2014
MILL CREEK DOLOMITE, LLC
MILL CREEK MINE & MILL

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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)	15,631,500
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	172,073
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	172073
6	**Pit Ground Water Volume** (Line 1 minus Line 5)	15,459,427
	DEFINED ELEMENTS OF CONSUMPTIVE USE	
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	275,448
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)	882,069
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	227,554
11	**Defined Elements of Consumptive Use of Pit Groundwater** (Add Lines 7 through 10)	1385071
	PIT GROUNDWATER BALANCE	
12	Line 6 minus Line 11	14,074,356
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, pusuant 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 minusLine 18)**	**14,074,356**
	TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER	
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	**15,459,427**

PIT WATER MONITORING DATA

MILL CREEK DOLOMITE, LLC

SUMP SURFACE AREA DATA:

SUMP A (sq ft)	**12925**	SUMP B (sq ft)	**8307**
PUMP A (GPM)	**300**	PUMP B (GPM)	**200**

		PU-19 QA		PU-18 QB		PIT WATER PUMPED			PIT RAIN WATER					
DATE	WK	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
12/30/13	0	1114.0	0.0	12274.0	7.0									
1/6/14	1	1342	228.0	12408	134.0	586286	229714	816000	0.0	0	0	0	0	0
1/13/14	2	1415	73.0	12454	46.0	187714	78857	266571	0.4	431	3223	277	2071	5295
1/20/14	3	1490	75.0	12456	2.0	192857	3429	196286	0.0	0	0	0	0	0
1/27/14	4	1570	80.0	12458	2.0	205714	3429	209143	0.0	0	0	0	0	0
Monthly Totals			456.0		184.0	9087429	2444571	11532000	0.4	431	3223	277	2071	5295
2/3/14	5	1660	90.0	12525	67.0	231429	114857	346286	0.45	485	3626	312	2330	5956
2/10/14	6	1723	63.0	12613	88.0	162000	150857	312857	0.65	700	5237	450	3366	8604
2/17/14	7	1751	28.0	12690	77.0	72000	132000	204000	0	0	0	0	0	0
2/24/14	8	1760	9.0	12715	25.0	23143	42857	66000	0.05	54	403	35	259	662
Monthly Totals			190.0		257.0	3420000	3084000	6504000	1.15	1239	9266	796	5956	15222
3/3/14	9	1772	12.0	12725	10.0	30857	17143	48000	0	0	0	0	0	0
3/10/14	10	1784	12.0	12781	56.0	30857	96000	126857	0	0	0	0	0	0
3/17/14	11	1821	37.0	12781	0.0	95143	0	95143	1.7	1831	13698	1177	8804	22502
3/24/14	12	1851	30.0	12891	110.0	77143	188571	265714	0	0	0	0	0	0
Monthly Totals			91.0		176.0	1813500	2338286	4151786	1.7	1831	13698	1177	8804	22502
1st QUARTER TOTALS			**737.0**		**617.0**	**14320929**	**7866857**	**22187786**	**3.25**	**3500.52**	**26187.40**	**2249.81**	**16830.85**	**43018**
3/31/14	13	1877	26.0	12891	0.0	66857	0	66857	0	0	0	0	0	0
4/7/14	14	1898	21.0	12918	27.0	54000	46286	100286	0.2	215	1612	138	1036	2647
4/14/14	15	1915	17.0	12918	0.0	43714	0	43714	0	0	0	0	0	0
4/21/14	16	1936	21.0	12918	0.0	54000	0	54000	0.6	646	4835	415	3107	7942
4/28/14	17	1970	34.0	12970	52.0	87429	89143	176571	0	0	0	0	0	0
Monthly Totals			119.0		79.0	2295000	1015714	3310714	0.8	862	6446	554	4143	10589
5/5/14	18	1976	6.0	12974	4.0	15429	6857	22286	0	0	0	0	0	0
5/12/14	19	1994	18.0	12974	0.0	46286	0	46286	1.6	1723	12892	1108	8286	21178
5/19/14	20	2020	26.0	12978	4.0	66857	6857	73714	0	0	0	0	0	0
5/26/14	21	2065	45.0	12986	8.0	115714	13714	129429	2.1	2262	16921	1454	10875	27796
Monthly Totals			95.0		16.0	1893214	212571	2105786	3.7	3985	29813	2561	19161	48975
6/2/14	22	2090	25.0	12986	0.0	64286	0	64286	4.0	4308	32231	2769	20715	52946
6/9/14	23	2121	31.0	12986	0.0	79714	0	79714	1.5	1616	12086	1038	7768	19855
6/16/14	24	2289	168.0	12986	0.0	432000	0	432000	2.0	2154	16115	1385	10357	26473
6/23/14	25	2368	79.0	13326	340.0	203143	582857	786000	1.0	1077	8058	692	5179	13236
Monthly Totals			303.0		340.0	5843571	4371429	10215000	8.5	9155	68490	5884	44019	112509
2nd QUARTER TOTALS			**517.0**		**435.0**	**10031786**	**5599714**	**15631500**	**13.00**	**14002.08**	**104749.59**	**8999.25**	**67323.39**	**172073**

QUARRY DEWATER & CREEK MAKE-UP WATER

		PU-19 QA 65HP		PU-18 QB 35HP		PU-04 Big		PU-03 Little		PU-21 AG- Lime	
DATE	WK	Meter Reading	HRS. RAN	Meter Reading	HRS. RAN	Meter	Hrs. Ran	Meter	Hrs.	Meter	Hrs.
			91.0		176.0		26.0		0.0		0.0
4/1/14	13	1877.0	26.0	12891.0	0.0	2961.0	0.0	1279.0	0.0	10910.0	0.0
4/8/14	14	1898.0	21.0	12918.0	27.0	2968.0	7.0	1279.0	0.0	10910.0	0.0
4/15/14	15	1915.0	17.0	12918.0	0.0	2968.0	0.0	1279.0	0.0	10910.0	0.0
4/22/14	16	1936.0	21.0	12918.0	0.0	2976.0	8.0	1279.0	0.0	10910.0	0.0
4/30/14	17	1970.0	34.0	12970.0	52.0	2996.0	20.0	1279.0	0.0	10910.0	0.0
			119.0		79.0		35.0		0.0		0.0
5/5/14	18	1976.0	6.0	12974.0	4.0	3031.0	35.0	1279.0	0.0	10928.0	18.0
5/12/14	19	1994.0	18.0	0.0	0.0	3040.0	9.0	1279.0	0.0	10958.0	30.0
5/19/14	20	2020.0	26.0	4.0	4.0	3040.0	0.0	1279.0	0.0	10982.0	24.0
5/30/14	21	2065.0	45.0	8.0	4.0	3043.0	3.0	1279.0	0.0	10990.0	8.0
			95.0		12.0		47.0		0.0		80.0
6/2/14	22	2090.0	25.0	8.0	0.0	3043.0	0.0	1279.0	0.0	10998.0	8.0
6/9/14	23	2121.0	31.0	8.0	0.0	3043.0	0.0	1279.0	0.0	10998.0	0.0
6/16/14	24	2289.0	168.0	8.0	0.0	3043.0	0.0	1279.0	0.0	10998.0	0.0
6/30/14	25	2368.0	79.0	340.0	332.0	3043.0	0.0	1279.0	0.0	10998.0	0.0
			303.0		332.0		0.0		0.0		8.0
YTD TOTALS			1021.0		957.0		261.0				

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3-Mar		
4-Mar		
5-Mar		
6-Mar		
7-Mar		
8-Mar		
9-Mar		
10-Mar		
11-Mar		
12-Mar		
13-Mar		
14-Mar		
15-Mar	1.7	
16-Mar		
17-Mar		
18-Mar		
19-Mar		
20-Mar		
21-Mar		
22-Mar		
23-Mar		
24-Mar		
25-Mar		
26-Mar		
27-Mar		
28-Mar		
29-Mar		
30-Mar		
31-Mar		

	AMOUNT	COMMENTS	1.7 MONTH	2.1 YTD 2014	12.5 2013
APRIL					
1-Apr					
2-Apr					
3-Apr					
4-Apr					
5-Apr					
6-Apr					
7-Apr					
8-Apr					
9-Apr					
10-Apr					
11-Apr					
12-Apr					
13-Apr	0.2				
14-Apr					
15-Apr					
16-Apr					
17-Apr					
18-Apr					
19-Apr					
20-Apr					
21-Apr	0.6				
22-Apr					
23-Apr					
24-Apr					
25-Apr					
26-Apr					
27-Apr					
28-Apr					
29-Apr					
30-Apr					
			0.8	2.9	14.9

2nd Qtr

MAY	AMOUNT	COMMENTS	MONTH	YTD 2014	2013
1-May					
2-May					
3-May					
4-May					
5-May					
6-May					
7-May					
8-May					
9-May					
10-May					
11-May					
12-May	1.6				
13-May					
14-May					
15-May					
16-May					
17-May					
18-May					
19-May					
20-May					
21-May					
22-May					
23-May					
24-May					
25-May					
26-May					
27-May	2.1				
28-May					
29-May					
30-May					
31-May					
			3.7	6.6	16.7

JUNE	AMOUNT	COMMENTS	MONTH	YTD 2014	2013
1-Jun					
2-Jun					
3-Jun					
4-Jun					
5-Jun					
6-Jun	1.5				
7-Jun					
8-Jun	2.5				
9-Jun	1.5				
10-Jun					
11-Jun					
12-Jun					
13-Jun					
14-Jun					
15-Jun					
16-Jun					
17-Jun					
18-Jun					
19-Jun	2				
20-Jun					
21-Jun					
22-Jun					
23-Jun	1				
24-Jun					
25-Jun					
26-Jun					
27-Jun					
28-Jun					
29-Jun					
30-Jun					
			8.5	15.1	18.4

2nd Qtr

MILL CREEK DOLOMITE, LLC

PIT WATER MONITORING DATA

SUMP DATA:

SUMP A: 12,925 Sq. Ft.
SUMP B: 8,307 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:

Tons mined and shipped to the plant at 2.5% moisture:

MONTH	TONS	MOISTURE %
April	14,893	2.0
May	18,634	2.5
June	15,176	2.5
Total	48,703	

Calculations for gallons of water shipped to the Plant:

14,893 x .020 = 297.9 tons or 595,720 lbs
18,634 x .025 = 465.8 tons or 931,700 lbs
15,176 x .025 = 379.4 tons or 758,800 lbs
Total lbs. = 2,286,220 lbs
Gallons = 2,286,220 lbs x 1 gal/8.3 lbs = 275,448 gallons of water

Misc. Water Data:

List of Equivalents:

Volume Units

One Gallon
= 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)

MILL CREEK DOLOMITE 2014 TONS

Month	Blasted Tons	Broken Boulders Recovered	Tons Hauled From Pit	Tons Crushed	North Plt Processed Tons	South Plt Processed Tons	Ball Mill Tons	Total Tons Shipped
January	34,475		18,403	15,314	12,657	10,512	4,105	16,070
February	39,939		16,046	20,068	16,142	13,200	7,426	17,414
March	0		19,803	16,233	14,580	10,487	1,929	14,269
April	20,914		14,893	16,260	14,382	11,084	2,278	14290
May	14,950		18,634	15,481	12,630	9,603	995	12,360
June	23,156		15,176	16,688	16,383	11,464	538	16,477
July								
August								
September								
October								
November								
December								
Totals	**133,434**	**0**	**102,955**	**100,044**	**86,774**	**66,350**	**17,271**	**90,880**
1st quarter	74,414	0	54,252	51,615	43,379	34,199	13,460	47,753
2nd quarter	59,020	0	48,703	48,429	43,395	32,151	3,811	43,127

PIT WATER MONITORING DATA

MILL CREEK DOLOMITE, LLC

EVAPORATION

Sump A (sq ft)	12,925	Sump B (sq ft)	8,307
Settling A (sq ft)	30,000	Settling B (sq ft)	35,000

April, 2014											
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)
4/1/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
4/2/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
4/3/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
4/4/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
4/5/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
4/6/2014	0.04	0.028	30.16	225.61	19.38	145.00	70.00	523.67	81.67	610.95	1505.24
4/7/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33
4/8/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
4/9/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
4/10/2014	0.38	0.266	286.50	2143.34	184.14	1377.54	665.00	4974.87	775.83	5804.01	14299.75
4/11/2014	0.20	0.140	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
4/12/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
4/13/2014	0.20	0.140	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
4/14/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64
4/15/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
4/16/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
4/17/2014	0.11	0.077	82.94	620.44	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40
4/18/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
4/19/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
4/20/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64
4/21/2014	0.13	0.091	98.01	733.25	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02
4/22/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
4/23/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
4/24/2014	0.26	0.182	196.03	1466.49	125.99	942.53	455.00	3403.86	530.83	3971.16	9784.04
4/25/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
4/26/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
4/27/2014	0.37	0.259	278.96	2086.93	179.29	1341.29	647.50	4843.95	755.42	5651.27	13923.44
4/28/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
4/29/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
4/30/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
Monthly Totals			**5202.31**	**38918.50**	**3343.57**	**25013.23**	**12075.00**	**90333.08**	**14087.50**	**105388.59**	**259653.39**

PIT WATER MONITORING DATA

MILL CREEK DOLOMITE, LLC

EVAPORATION

Sump A (sq ft)	12,925	Sump B (sq ft)	8,307
Settling A (sq ft)	30,000	Settling B (sq ft)	35,000

May, 2014											
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)
5/1/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
5/2/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
5/3/2014	0.30	0.21	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
5/4/2014	0.46	0.322	346.82	2594.57	222.90	1667.55	805.00	6022.21	939.17	7025.91	17310.23
5/5/2014	0.49	0.343	369.44	2763.78	237.44	1776.30	857.50	6414.96	1000.42	7484.12	18439.15
5/6/2014	0.39	0.273	294.04	2199.74	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
5/7/2014	0.30	0.21	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
5/8/2014	0.10	0.07	75.40	564.04	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09
5/9/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
5/10/2014	0.32	0.224	241.27	1804.92	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
5/11/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
5/12/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
5/13/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
5/14/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
5/15/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
5/16/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
5/17/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
5/18/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
5/19/2014	0.36	0.252	271.43	2030.53	174.45	1305.04	630.00	4713.03	735.00	5498.54	13547.13
5/20/2014	0.41	0.287	309.12	2312.55	198.68	1486.29	717.50	5367.62	837.08	6262.22	15428.68
5/21/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
5/22/2014	0.30	0.21	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
5/23/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
5/24/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
5/25/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
5/26/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
5/27/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
5/28/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
5/29/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
5/30/2014	0.18	0.126	135.71	1015.27	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
5/31/2014	0.20	0.14	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
Monthly Totals			**6054.29**	**45292.11**	**3891.14**	**29109.60**	**14052.50**	**105126.75**	**16394.58**	**122647.88**	**302176.34**

PIT WATER MONITORING DATA

MILL CREEK DOLOMITE, LLC

EVAPORATION

Sump A (sq ft)	12,925	Sump B (sq ft)	8,307
Settling A (sq ft)	30,000	Settling B (sq ft)	35,000

June, 2014											
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)
6/1/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
6/2/2014	0.32	0.224	241.27	1804.92	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
6/3/2014	0.35	0.245	263.89	1974.13	169.60	1268.79	612.50	4582.11	714.58	5345.80	13170.82
6/4/2014	0.39	0.273	294.04	2199.74	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
6/5/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
6/6/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
6/7/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
6/8/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
6/9/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
6/10/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
6/11/2014	0.30	0.210	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
6/12/2014	0.20	0.14	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
6/13/2014	0.30	0.210	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
6/14/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
6/15/2014	0.35	0.245	263.89	1974.13	169.60	1268.79	612.50	4582.11	714.58	5345.80	13170.82
6/16/2014	0.38	0.266	286.50	2143.34	184.14	1377.54	665.00	4974.87	775.83	5804.01	14299.75
6/17/2014	0.39	0.273	294.04	2199.74	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
6/18/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
6/19/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
6/20/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
6/21/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
6/22/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
6/23/2014	0.20	0.14	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
6/24/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
6/25/2014	0.20	0.14	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
6/26/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
6/27/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
6/28/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
6/29/2014	0.37	0.259	278.96	2086.93	179.29	1341.29	647.50	4843.95	755.42	5651.27	13923.44
6/30/2014	0.47	0.329	354.36	2650.97	227.75	1703.80	822.50	6153.12	959.58	7178.64	17686.54
Monthly Totals			**6416.19**	**47999.48**	**4123.73**	**30849.65**	**14892.50**	**111410.79**	**17374.58**	**129979.26**	**320239.18**
Quarterly total			17672.78	132210.09	11358.44	84972.47	41020.00	306870.62	47856.67	358015.72	**882068.91**

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SEP 25 2014
Oklahoma Water Resources Board

(1) Pan Evap

2014-04-22	0.20	0.25	0.19	0.12	0.25
2014-04-21	0.11	0.13	0.10	0.07	0.13
2014-04-20	0.12	0.15	0.11	0.07	0.15
2014-04-19	0.17	0.22	0.16	0.11	0.22
2014-04-18	0.17	0.21	0.16	0.11	0.22
2014-04-17	0.09	0.12	0.09	0.06	0.11
2014-04-16	0.20	0.28	0.18	0.12	0.29
2014-04-15	0.16	0.21	0.15	0.10	0.21
2014-04-14	0.10	0.15	0.10	0.06	0.15
2014-04-13	0.14	0.19	0.13	0.08	0.20
2014-04-12	0.20	0.27	0.18	0.12	0.28
2014-04-11	0.15	0.19	0.14	0.09	0.20
2014-04-10	0.26	0.37	0.24	0.16	0.38
2014-04-09	0.21	0.29	0.19	0.13	0.28
2014-04-08	0.21	0.30	0.20	0.13	0.31
2014-04-07	0.12	0.15	0.11	0.07	0.14
2014-04-06	0.03	0.04	0.03	0.02	0.04
2014-04-05	0.10	0.13	0.09	0.06	0.12
2014-04-04	0.18	0.26	0.17	0.11	0.27
2014-04-03	0.15	0.21	0.14	0.10	0.22
2014-04-02	0.15	0.22	0.14	0.09	0.21
2014-04-01	0.13	0.18	0.12	0.08	0.17
2014-03-31	0.17	0.25	0.16	0.11	0.24
2014-03-30	0.22	0.32	0.20	0.13	0.32
2014-03-29	0.17	0.24	0.16	0.11	0.23
2014-03-28	0.12	0.18	0.11	0.08	0.17
2014-03-27	0.20	0.30	0.19	0.12	0.28
2014-03-26	0.08	0.11	0.07	0.05	0.10
2014-03-25	0.13	0.18	0.12	0.08	0.18
2014-03-24	0.14	0.19	0.13	0.09	0.19
2014-03-23	0.15	0.22	0.14	0.09	0.23
2014-03-22	0.16	0.26	0.15	0.10	0.25
2014-03-21	0.19	0.27	0.17	0.11	0.26
2014-03-20	0.16	0.22	0.15	0.10	0.21
2014-03-19	0.15	0.21	0.14	0.09	0.20
2014-03-18	0.30	0.46	0.28	0.18	0.48
2014-03-17	0.12	0.16	0.11	0.07	0.16
2014-03-16	0.08	0.13	0.08	0.05	0.12
2014-03-15	0.06	0.09	0.06	0.04	0.08
2014-03-14	0.15	0.21	0.14	0.09	0.20
2014-03-13	0.16	0.23	0.15	0.10	0.23
2014-03-12	0.18	0.27	0.17	0.11	0.29
2014-03-11	0.23	0.34	0.22	0.14	0.33
2014-03-10	0.17	0.24	0.16	0.10	0.22
2014-03-09	0.11	0.14	0.10	0.07	0.13
2014-03-08	0.04	0.06	0.04	0.03	0.06
2014-03-07	0.12	0.18	0.11	0.08	0.17
2014-03-06	0.08	0.09	0.07	0.05	0.09
2014-03-05	0.08	0.11	0.07	0.05	0.10
2014-03-04	0.07	0.09	0.07	0.04	0.09

2nd QTR

(2) Pan Evap

2014-06-11	0.24	0.28	0.22	0.15	0.30
2014-06-10	0.21	0.26	0.20	0.13	0.28
2014-06-09	0.18	0.22	0.16	0.11	0.23
2014-06-08	0.15	0.18	0.14	0.09	0.19
2014-06-07	0.24	0.30	0.22	0.15	0.31
2014-06-06	0.14	0.17	0.13	0.09	0.17
2014-06-05	0.24	0.30	0.22	0.15	0.31
2014-06-04	0.29	0.37	0.27	0.18	0.39
2014-06-03	0.27	0.33	0.25	0.16	0.35
2014-06-02	0.25	0.31	0.23	0.15	0.32
2014-06-01	0.21	0.26	0.20	0.13	0.27
2014-05-31	0.17	0.20	0.16	0.10	0.20
2014-05-30	0.15	0.18	0.14	0.09	0.18
2014-05-29	0.23	0.27	0.21	0.14	0.28
2014-05-28	0.15	0.18	0.14	0.09	0.19
2014-05-27	0.10	0.12	0.10	0.06	0.12
2014-05-26	0.13	0.16	0.12	0.08	0.17
2014-05-25	0.19	0.25	0.18	0.12	0.25
2014-05-24	0.17	0.21	0.16	0.11	0.22
2014-05-23	0.17	0.22	0.16	0.11	0.22
2014-05-22	0.23	0.29	0.22	0.15	0.30
2014-05-21	0.25	0.33	0.23	0.16	0.34
2014-05-20	0.28	0.39	0.26	0.18	0.41
2014-05-19	0.25	0.33	0.23	0.15	0.36
2014-05-18	0.17	0.23	0.16	0.11	0.22
2014-05-17	0.17	0.22	0.15	0.10	0.22
2014-05-16	0.19	0.23	0.18	0.12	0.24
2014-05-15	0.18	0.23	0.17	0.11	0.23
2014-05-14	0.17	0.21	0.15	0.10	0.21
2014-05-13	0.17	0.23	0.16	0.11	0.24
2014-05-12	0.14	0.20	0.13	0.09	0.19
2014-05-11	0.21	0.30	0.20	0.13	0.31
2014-05-10	0.24	0.30	0.22	0.15	0.32
2014-05-09	0.23	0.28	0.21	0.14	0.29
2014-05-08	0.08	0.10	0.07	0.05	0.10
2014-05-07	0.21	0.30	0.20	0.13	0.30
2014-05-06	0.27	0.37	0.25	0.17	0.39
2014-05-05	0.32	0.46	0.30	0.20	0.49
2014-05-04	0.32	0.45	0.30	0.20	0.46
2014-05-03	0.23	0.30	0.21	0.14	0.30
2014-05-02	0.18	0.23	0.17	0.11	0.24
2014-05-01	0.18	0.24	0.17	0.11	0.24
2014-04-30	0.18	0.24	0.17	0.11	0.24
2014-04-29	0.19	0.26	0.17	0.12	0.27
2014-04-28	0.22	0.30	0.20	0.14	0.31
2014-04-27	0.26	0.37	0.24	0.16	0.37
2014-04-26	0.23	0.32	0.22	0.15	0.34
2014-04-25	0.21	0.29	0.20	0.13	0.29
2014-04-24	0.18	0.24	0.17	0.11	0.26
2014-04-23	0.21	0.27	0.19	0.13	0.27

(3)

Pan Evap

2014-07-31	0.06	0.07	0.05	0.03	0.07
2014-07-30	0.06	0.07	0.05	0.04	0.07
2014-07-29	0.18	0.20	0.17	0.11	0.22
2014-07-28	0.20	0.25	0.19	0.12	0.26
2014-07-27	0.26	0.31	0.24	0.16	0.32
2014-07-26	0.26	0.31	0.24	0.16	0.33
2014-07-25	0.25	0.31	0.24	0.16	0.32
2014-07-24	0.22	0.25	0.21	0.14	0.27
2014-07-23	0.20	0.22	0.18	0.12	0.23
2014-07-22	0.22	0.25	0.21	0.14	0.27
2014-07-21	0.23	0.26	0.21	0.14	0.28
2014-07-20	0.20	0.23	0.19	0.12	0.24
2014-07-19	0.11	0.13	0.11	0.07	0.14
2014-07-18	0.09	0.10	0.08	0.05	0.10
2014-07-17	0.03	0.04	0.03	0.02	0.04
2014-07-16	0.13	0.18	0.12	0.08	0.17
2014-07-15	0.25	0.32	0.23	0.15	0.34
2014-07-14	0.14	0.17	0.13	0.09	0.17
2014-07-13	0.27	0.32	0.25	0.17	0.34
2014-07-12	0.27	0.34	0.25	0.17	0.35
2014-07-11	0.28	0.35	0.26	0.17	0.36
2014-07-10	0.26	0.32	0.24	0.16	0.33
2014-07-09	0.17	0.21	0.16	0.11	0.22
2014-07-08	0.27	0.33	0.25	0.17	0.34
2014-07-07	0.27	0.32	0.25	0.17	0.34
2014-07-06	0.25	0.31	0.24	0.16	0.32
2014-07-05	0.22	0.26	0.20	0.13	0.27
2014-07-04	0.22	0.25	0.21	0.14	0.27
2014-07-03	0.19	0.22	0.18	0.12	0.24
2014-07-02	0.15	0.18	0.14	0.09	0.18
2014-07-01	0.22	0.27	0.21	0.14	0.28
2014-06-30	0.33	0.44	0.31	0.20	0.47
2014-06-29	0.27	0.35	0.25	0.17	0.37
2014-06-28	0.17	0.23	0.16	0.10	0.22
2014-06-27	0.20	0.27	0.19	0.13	0.28
2014-06-26	0.16	0.21	0.15	0.10	0.21
2014-06-25	0.16	0.19	0.15	0.10	0.20
2014-06-24	0.20	0.22	0.19	0.12	0.24
2014-06-23	0.16	0.19	0.15	0.10	0.20
2014-06-22	0.22	0.26	0.21	0.14	0.28
2014-06-21	0.19	0.22	0.18	0.12	0.23
2014-06-20	0.19	0.22	0.17	0.12	0.23
2014-06-19	0.15	0.19	0.14	0.09	0.19
2014-06-18	0.25	0.33	0.23	0.15	0.34
2014-06-17	0.28	0.37	0.26	0.17	0.39
2014-06-16	0.28	0.36	0.26	0.17	0.38
2014-06-15	0.26	0.34	0.24	0.16	0.35
2014-06-14	0.23	0.30	0.21	0.14	0.31
2014-06-13	0.24	0.28	0.22	0.15	0.30
2014-06-12	0.16	0.20	0.15	0.10	0.20

2nd QTR

MILL CREEK DOLOMITE WATER USEAGE LOG

2nd QUARTER 2014

	2nd QUARTER 2014						
			Water Truck Hours			Calculated	
	DATE	RAINFALL	START	END	MILES	Loads	
Tuesday	4/1/2014						
Wednesday	4/2/2014						
Thursday	4/3/2014						
Friday	4/4/2014						
Saturday	4/5/2014						
Sunday	4/6/2014						
Monday	4/7/2014						
Tuesday	4/8/2014						
Wednesday	4/9/2014						
Thursday	4/10/2014						
Friday	4/11/2014						
Saturday	4/12/2014						
Sunday	4/13/2014	0.2					
Monday	4/14/2014						
Tuesday	4/15/2014						
Wednesday	4/16/2014						throttle problem
Thursday	4/17/2014						
Friday	4/18/2014						
Saturday	4/19/2014						
Sunday	4/20/2014						
Monday	4/21/2014	0.6	69749	69756	7	0.88	repaired
Tuesday	4/22/2014						
Wednesday	4/23/2014						
Thursday	4/24/2014						
Friday	4/25/2014						
Saturday	4/26/2014						
Sunday	4/27/2014						
Monday	4/28/2014						
Tuesday	4/29/2014						
Wednesday	4/30/2014		69759	69796	37	4.63	
Thursday	5/1/2014						
Friday	5/2/2014		69796	69818	22	2.75	
Saturday	5/3/2014						
Sunday	5/4/2014						
Monday	5/5/2014		69818	69847	29	3.63	

Water Truck Summary		
	Loads	Gallons
	1	4,500
2nd Quarter totals	41.3	185625

WELL			
		PU - 21	Ag Lime
DATE	*WK*	*Meter Reading*	*HRS. RAN*
4/1/14	1	10910	0.0
4/8/14	2	10910	0.0
4/15/14	3	10910	0.0
4/22/14	4	10910	0.0
4/30/14	5	10910	0.0
5/5/14	6	10928	18.0
5/12/14	7	10958	30.0
5/19/14	8	10982	24.0
5/30/14	9	10990	8.0
6/2/14	10	10998	8.0
6/9/14	11	10998	0.0
6/16/14	12	10998	0.0
6/23/14	13	10998	0.0
6/30/14	14	10998	0.0
2nd Quarter Total			88.0
Total gallons (@ 476.47/hr)			41929

2nd QUARTER TOTAL GROUNDWATER USEAGE (gallons)	227554

2nd Qtr Water trb hrs page 2

Tuesday	5/6/2014		69847	69898	51	6.38
Wednesday	5/7/2014					
Thursday	5/8/2014					
Friday	5/9/2014					
Saturday	5/10/2014					
Sunday	5/11/2014					
Monday	5/12/2014	1.6	69898	69931	33	4.13
Tuesday	5/13/2014					
Wednesday	5/14/2014					
Thursday	5/15/2014					
Friday	5/16/2014					
Saturday	5/17/2014					
Sunday	5/18/2014					
Monday	5/19/2014		69931	69967	36	4.50
Tuesday	5/20/2014		69967	70020	53	6.63
Wednesday	5/21/2014		70020	70044	24	3.00
Thursday	5/22/2014					
Friday	5/23/2014					
Saturday	5/24/2014					
Sunday	5/25/2014					
Monday	5/26/2014					
Tuesday	5/27/2014	2.1				
Wednesday	5/28/2014					
Thursday	5/29/2014		70044	70064	20	2.50
Friday	5/30/2014					
Saturday	5/31/2014					
Sunday	6/1/2014					
Monday	6/2/2014					
Tuesday	6/3/2014					
Wednesday	6/4/2014					
Thursday	6/5/2014					
Friday	6/6/2014	1.5				
Saturday	6/7/2014					
Sunday	6/8/2014	2.5				
Monday	6/9/2014	1.5				
Tuesday	6/10/2014		70044	70062	18	2.25
Wednesday	6/11/2014					
Thursday	6/12/2014					
Friday	6/13/2014					
Saturday	6/14/2014					
Sunday	6/15/2014					
Monday	6/16/2014					

2nd Qtr Water trk hrs page 3

Tuesday	6/17/2014					
Wednesday	6/18/2014		70062	70086	24	
Thursday	6/19/2014	2.0				
Friday	6/20/2014					
Saturday	6/21/2014					
Sunday	6/22/2014					
Monday	6/23/2014	1.0				
Tuesday	6/24/2014		70086	70101	15	
Wednesday	6/25/2014					
Thursday	6/26/2014					
Friday	6/27/2014					
Saturday	6/28/2014					
Sunday	6/29/2014					
Monday	6/30/2014					
Totals		13.0			369.0	41.3