

Corporate Environmental Affairs

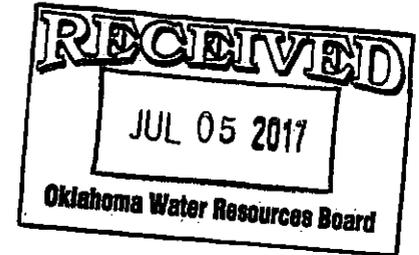
Friday, June 30, 2017

Oklahoma Water Resources Board

3800 N. Classen

Oklahoma City, OK 73118

(405) 530-8800



RE: Consumptive Water Use Report – Quarter 1 2017

Mine L.E.-1565 – Unimin Corporation – Roff Facility

Dear Sir or Madam:

Enclosed please find the Unimin Corporation's consumptive water use report for Quarter 1 2017. As noted on the attached worksheets, the plant remains below our allocated equal proportionate share.

If you have any questions or require any additional information, please contact myself or Jim Bonsall at (580) 456-7772.

Respectfully

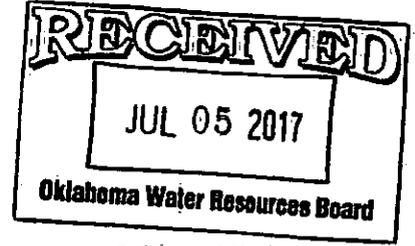
A handwritten signature in black ink, appearing to read "R. Amiri Alexander". The signature is fluid and cursive.

R. Amiri Alexander

QC/Mine Supervisor

Consumptive Use of Pitwater Worksheet

Enter Values In Yellow



Pit Groundwater Volume		Amount (gallons)
1	Total volume of water pumped from the producing mine pit(s)	217,896,750
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	19,139,184
3	Portion of total precipitation that flows over the land surfaces 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	19,139,184
6	Pit Groundwater Volume (Line 1 - Line 5)	198,757,566

Area of Pit: 88 (acres) Rainfall: 8.01 (Inches)

Defined Elements of Consumptive Use		Amount (gallons)
7	Volume of pit water that is driven off (by drying) the mined material transported off the mine site	3,261,665
8	Volume of pit water that is carried away with the mined material transported off the mining site (shipped)	0
9	Volume of pit water that evaporates from the producing mine pit, process water ponds, and lined ponds (excluding structures used for augmentation)	557,767
10	Volume of pit water that is used for other beneficial uses off the mine site (outfall discharge)	414,201,100
11	Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)	418,020,532

Tons Mined: 272,349 % Moisture: 5.0

ASHRAE Evaporation Model
 A: 95
 B: 37.4
 V: 5 (mi/hr)
 Pw: 0.69 (in-Hg)
 Pa: 0.522 (in-Hg)
 Hv: 970.4 (Btu/lb)
 Evap Area: 10 (acre)

Pit Groundwater Balance		Amount (gallons)
12	Total groundwater from pit	198,757,566
13	Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basin or sub basin)	0
14	Stream Augmentation (Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance or median historic flows.	414,201,100
15	Precipitation & Run-off (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)	0
16	Additional Discharge (Volume of pit groundwater discharged to a definite stream, not meeting stream augmentation credit criteria)	0
17	Recycled Pit Groundwater (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)	198,757,566
18	Other Non-Consumptive Losses (including pit groundwater returned to the land surface from which surface run-off flows into a mine pit, and other losses not included in lines 7 through 10)	0
19	Add lines 13 through 18	612,958,666
20	Other Consumptive Use (adjusted) Line 12 minus 19	-414,201,100

CREDITS

Total Reported Consumptive Use Of Pit Amount (gallons)

21 **Total Reported Consumptive Use Of Pit (add Line 11 and Line 20)** **3,819,432**

Facility's Equal Proportionate Share (EPS) **62,693,815** at: 0.2 acre-feet for 962 acres