

Corporate Environmental Affairs

December 3, 2020

Oklahoma Water Resources Board
3800 N. Classen
Oklahoma City, OK 73118
(405) 530-8800

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Oklahoma Water Resources Board

**Consumptive Water Use Report – Quarter 3, 2020
Mine L.E.-1565 – Covia Corporation – Roff Facility**

Dear Sir or Madam:

Enclosed please find Covia's consumptive water use report for the third quarter of 2020. As noted on the attached worksheet, the plant remains below our allocated equal proportionate share.

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

Respectfully,

David Caldwell
QC Supervisor

Attachments

CC: Plant
IRO

Consumptive Use of Pitwater Worksheet Quarter 3

Enter Values in Yellow

Pit Groundwater Volume

- 1 Total volume of water pumped from the producing mine pit(s)
- 2 Volume of precipitation that falls onto the surface of water in the producing mining pit(s)
- 3 Portion of total precipitation that flows over the land surfaces that drains into the mine pit water
- 4 Other non-pit waters pumped from the producing mine pit
- 5 Add lines 2 through 4
- 6 Pit Groundwater Volume (Line 1 - Line 5)

Amount (gallons)	Area of Pit: 116 (acres)	Rainfall: 17.35 (inches)
571,117,700	Area of Watershed Drainage: 298	Weighted CN: 78
55,276,856	Retention Before Runoff (d): 2.9	Runoff: 14.49
117,270,913	Area of Watershed Drainage Effective: 89	Weighted CN After: 66
52,215,152	Retention Before Runoff (d) Effective: 5.2	Runoff: 12.55551
224,767,921		
296,354,779		

Defined Elements of Consumptive Use

- 7 Volume of pit water that is driven off (by drying) the mined material transported off the mine site
- 8 Volume of pit water that is carried away with the mined material transported off the mining site (shipped)
- 9 Volume of pit water that evaporates from the producing mine pit, process water ponds, and lined ponds (excluding structures used for augmentation)
- 10 Volume of pit water that is used for other beneficial uses off the mine site
- 11 Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)

Amount (gallons)	Tons Mined: 242,237	% Moisture: 5.0
2,901,047		
0		

Pit Groundwater Balance

- 12 Total groundwater from pit
- 13 Groundwater Augmentation (Volume of pit groundwater returned to the groundwater base or sub basin)
- 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)
- 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 surface run-off flows into a mine pit, and other losses not included in lines 7 through 10)
- 18 Add lines 13 through 18
- 19 Other Consumptive Use (adjusted) Line 12 minus 18

Amount (gallons)	ASHRAE Evaporation Model	A: 95 (in/hr)
557,767		B: 37.4 (in/hr)
3,458,815		V: 5 (in/hr)
		Pw: 0.69 (in/hr)
Amount (gallons)		Pc: 0.522 (in/hr)
296,354,779		Hc: 970.4 (in/hr)
0		Evap Area: 10 (acres)
0		
0		
296,354,779		
0		

Total Reported Consumptive Use Of Pit

20 Total Reported Consumptive Use Of Pit (add Line 11 and Line 19)

Amount (gallons)

3,458,815

Facility's Equal Proportions Share (EPS)

62,693,815

at

0.2

acre feet

for

962 acres

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