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# 742856 \$500<sup>00</sup>  
Oklahoma Water Resources Board

February 19, 2022

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

**Consumptive Water Use Report – Quarter 4, and Annual 2021  
Mine L.E.-1565 – Covia Corporation – Roff Facility**

Dear Sir or Madam:

Enclosed please find the annual reporting fee and Covia's consumptive water use report for the fourth quarter and the annual report for 2021. 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.

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Bonsall', written over the printed name.

Jim Bonsall  
Plant Manager

# Consumptive Use of Pitwater Worksheet Quarter 4

2021

Pit Groundwater Volume		Amount	(gallons)				
1	Total volume of water pumped from the producing mine pit(s)	359,725,000					
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	26,142,331					
3	Portion of total precipitation that flows over the land surfaces that drains into the mine pit water	45,408,230		Area of Pit:	116	(acres)	Rainfall: 8.3 (inches)
4	Other non-pit waters pumped from the producing mine pit	20,567,366		Area of Watershed Drainage:	298		Weighted CN: 78
5	Add lines 2 through 4	92,117,926		Retention Before Runoff (s):	2.9		Runoff: 5.61
6	Pit Groundwater Volume (Line 1 - Line 5)	267,607,074		Area of Watershed Drainage Kite:	89		Weighted CN Kite: 66
				Retention Before Runoff (s) Kite:	5.2		Runoff: 4.230144
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	3,465,264		Tons Mined:	289,003	% Moisture	5.0
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)	12,459,474		Mesonet Pan Evaporation Method	0.08	Pan Evaporation (ins)	
10	Volume of pit water that is used for other beneficial uses off the mine site				0.7	Lake Evaporation Coefficient	
11	Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)	15,924,738		Evaporation Areas	514252	Wingard	
					2545511	J	
					819570	G	
Pit Groundwater Balance		Amount	(gallons)				
12	Total groundwater from pit	267,607,074			92	Days	
13	Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basic or sub basin)	0					
14	Stream Augmentation (Volume of put 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)	0					
16	Recycled Pit Groundwater (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)	267,607,074					
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)	0					
18	Add lines 13 through 18	267,607,074					
19	Other Consumptive Use (adjusted) Line 12 minus 18	0					
Total Reported Consumptive Use Of Pit		Amount	(gallons)				
21	Total Reported Consumptive Use Of Pit (add Line 11 and Line 19)	15,924,738					
	Facility's Equal Proportionate Share (EPS)	97,533,849		at	0.2	acre-feet	for 1,497 acres

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