CK#: 0100213762

Amount: \$500.00



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Oklahoma Water Resources Board

February 1, 2024

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

Consumptive Water Use Report – Quarter 4 2023, and Annual 2023 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 reports for the fourth quarter and the annual report for 2023. 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 Jim Bonsall

Plant Manager

Consumptive Use of Pitwater Worksheet Quarter 4

2023

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)

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)

Pit Groundwater Balance

- 12 Total groundwater from pit
- 13 Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basic or sub basin)
- 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)
- 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 runoff 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

Total Reported Consumptive Use Of Pit

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

Facility's Equal Proportionate Share (EPS)

191,827,50051,209,426Area of Pit(s):205(acres)Rainfall:9.272,838,075Area of Watershed Drainage:298Weighted CN:7844,076,000Retention Before Runoff (s):2.9Runoff:6.43168,123,502Area of Watershed Drainage Kite:89Weighted CN Kite:6623,703,998Retention Before Runoff (s) Kite:5.2Runoff:4.96Area of Watershed Drainage Kite:89Weighted CN Kite:6.6623,703,998Retention Before Runoff (s) Kite:2.7Runoff:6.49Area of Watershed Drainage HTC:48Weighted CN HTC:78Amount(gallons)Retention Before Runoff (s) Kite:2.7Runoff:6.663,180,635Tons Mined:265,265% Moisture5.0700Mesonet Pan Evaporation Method0.08Pan Evaporation CoefficientLake Evaporation Coefficient3,180,635Evaporation Areas514252Wingard1420,523,3630Days600Days0Days							(gallons)	Amount
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44,076,000Retention Before Runoff (s):2.9Runoff:6.43168,123,502Area of Watershed Drainage Kite:89Weighted CN Kite:6.6323,703,998Retention Before Runoff (s) Kite:5.2Runoff:4.94Area of Watershed Drainage HTC:48Weighted CN HTC:78Amount(galions)Retention Before Runoff (s) Kite:2.7Runoff:6.603,180,635Tons Mined:265,265% Moisture5.06.600Mesonet Pan Evaporation Method0.08Pan Evaporation (ins)Lake Evaporation Coefficient0Mesonet Pan Evaporation Areas514252Wingard13,180,635Evaporation Areas514252Wingard2020,523,3630Days6100000000000000101010101011111010101011121314141111314141414141414151616161616151616161616161516	3	78	Weighted CN:		298	Area of Watershed Drainage:		72,838,075
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Area of Watershed Drainage HTC: 48 Weighted CN HTC: 78 Amount (gallons) Retention Before Runoff (s) Kite: 2.7 Runoff: 6.60 3,180,635 Tons Mined: 265,265 % Moisture 5.0 5.0 0 Mesonet Pan Evaporation Method 0.08 Pan Evaporation (ins) Lake Evaporation Coefficient 3,180,635 Evaporation Areas 514252 Wingard J Amount (gallons) 819570 G 20,523,363 0 Days	8	4.98	Runoff:		5.2	Retention Before Runoff (s) Kite:		23,703,998
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att kome Water Resources Board			ources Board	ater Res	ma Mi			
Oklanoma Water Pra								
Amount (gallons)							(gallons)	Amount
D 100 CDF								2 400 65-
5,180,635								3,180,635
97,533,849 0.2 acre-feet for 1,497 acres		cres	1,497 ac	for	acre-feet	0.2		97,533,849

Consumptive Use of Pitwater Worksheet Annual Report



Pit Groundwater Volume

1 I I I I I I I I I I I I I I I I I I I

- 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
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Total Reported Consumptive Use Of Pit

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

Facility's Equal Proportionate Share (EPS)

Amount	(gallons)					
969 663 600						
196 488 343		Area of Pit(s):	205	(acres)	Rainfall:	35.3
373,196,889		Area of Watershed Drainage:	298	()	Weighted CN:	78
177.816.000		Retention Before Runoff (s):	2.9		Runoff:	32.04
747,501,232		Area of Watershed Drainage Kite:	89		Weighted CN Kite:	66
222,162,368		Retention Before Runoff (s) Kite:	5.2		Runoff:	29.75
		Area of Watershed Drainage HTC:	48		Weighted CN HTC:	78
Amount	(gallons)	Retention Before Runoff (s) Kite:	2.7		Runoff:	32.25
13,586,655		Tons Mined:	1,133,127	% Moisture	5.0	
0						
24,648,090		Mesonet Pan Evaporation Method		0.08	Pan Evaporation (ins)	
				0.7	Lake Evaporation Coefficient	
38,234,745		Evaporation Areas		514252	Wingard	
				2545511	J	
Amount	(gallons)			819570	G	
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0	edits					
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State State						
0						
183,927,624 0						
Amount	(gallons)					
38,234,745		117.3	acre-feet			
97,533,849		0.2	acre-feet	for	1,497 a	cres



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Oklahoma Water Resources Board