

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,

A handwritten signature in black ink, appearing to read 'Jim Bonsall', written over a faint circular stamp or watermark.

Jim Bonsall  
Plant Manager

**Consumptive Use of Pitwater Worksheet Quarter 4**

**2023**

Pit Groundwater Volume		Amount	(gallons)
1	Total volume of water pumped from the producing mine pit(s)	191,827,500	
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	51,209,426	
3	Portion of total precipitation that flows over the land surfaces that drains into the mine pit water	72,838,075	
4	Other non-pit waters pumped from the producing mine pit	44,076,000	
5	Add lines 2 through 4	168,123,502	
6	<b>Pit Groundwater Volume (Line 1 - Line 5)</b>	<b>23,703,998</b>	
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	3,180,635	
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)	0	
10	Volume of pit water that is used for other beneficial uses off the mine site		
11	<b>Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)</b>	<b>3,180,635</b>	
Pit Groundwater Balance		Amount	(gallons)
12	Total groundwater from pit	20,523,363	
13	<b>Groundwater Augmentation</b> (Volume of pit groundwater returned to the groundwater basic or sub basin)	0	
14	<b>Stream Augmentation</b> (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	<b>Precipitation &amp; Run-off</b> (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)	0	
16	<b>Recycled Pit Groundwater</b> (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)	20,523,363	
17	<b>Other Non-Consumptive Losses</b> (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	20,523,363	
19	<b>Other Consumptive Use (adjusted)</b> Line 12 minus 18	0	
<b>Total Reported Consumptive Use Of Pit</b>		<b>Amount</b>	<b>(gallons)</b>
21	<b>Total Reported Consumptive Use Of Pit (add Line 11 and Line 19)</b>	<b>3,180,635</b>	
<b>Facility's Equal Proportionate Share (EPS)</b>		<b>97,533,849</b>	
		0.2	acre-feet for 1,497 acres

<b>Area of Pit(s):</b>	205	(acres)	<b>Rainfall:</b>	9.2
<b>Area of Watershed Drainage:</b>	298		<b>Weighted CN:</b>	78
<b>Retention Before Runoff (s):</b>	2.9		<b>Runoff:</b>	6.45
<b>Area of Watershed Drainage Kite:</b>	89		<b>Weighted CN Kite:</b>	66
<b>Retention Before Runoff (s) Kite:</b>	5.2		<b>Runoff:</b>	4.98
<b>Area of Watershed Drainage HTC:</b>	48		<b>Weighted CN HTC:</b>	78
<b>Retention Before Runoff (s) Kite:</b>	2.7		<b>Runoff:</b>	6.60
<b>Tons Mined:</b>	265,265	<b>% Moisture</b>	5.0	
<b>Mesonet Pan Evaporation Method</b>	0.08	<b>Pan Evaporation (ins)</b>		
<b>Evaporation Areas</b>	0.7	<b>Lake Evaporation Coefficient</b>		
	514252	<b>Wingard</b>		
	2545511	<b>J</b>		
	819570	<b>G</b>		
	0	<b>Days</b>		

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**Consumptive Use of Pitwater Worksheet Annual Report**

**2023**

<b>Pit Groundwater Volume</b>		<b>Amount</b>	<b>(gallons)</b>				
1	Total volume of water pumped from the producing mine pit(s)	969,663,600					
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	196,488,343					
3	Portion of total precipitation that flows over the land surfaces that drains into the mine pit water	373,196,889					
4	Other non-pit waters pumped from the producing mine pit	177,816,000					
5	Add lines 2 through 4	747,501,232					
6	<b>Pit Groundwater Volume (Line 1 - Line 5)</b>	<b>222,162,368</b>					
<b>Defined Elements of Consumptive Use</b>		<b>Amount</b>	<b>(gallons)</b>				
7	Volume of pit water that is driven off (by drying) the mined material transported off the mine site	13,586,655					
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)	24,648,090					
10	Volume of pit water that is used for other beneficial uses off the mine site						
11	<b>Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)</b>	<b>38,234,745</b>					
<b>Pit Groundwater Balance</b>		<b>Amount</b>	<b>(gallons)</b>				
12	Total groundwater from pit	183,927,624					
13	<b>Groundwater Augmentation</b> (Volume of pit groundwater returned to the groundwater basic or sub basin)	0					
14	<b>Stream Augmentation</b> (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	<b>Precipitation &amp; Run-off</b> (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)	0					
16	<b>Recycled Pit Groundwater</b> (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)	183,927,624					
17	<b>Other Non-Consumptive Losses</b> (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	183,927,624					
19	<b>Other Consumptive Use (adjusted)</b> Line 12 minus 18	0					
<b>Total Reported Consumptive Use Of Pit</b>		<b>Amount</b>	<b>(gallons)</b>				
21	<b>Total Reported Consumptive Use Of Pit</b> (add Line 11 and Line 19)	<b>38,234,745</b>		117.3	acre-feet		
	<b>Facility's Equal Proportionate Share (EPS)</b>	<b>97,533,849</b>		0.2	acre-feet	for	1,497 acres

  

	<b>Area of Pit(s):</b>	205	(acres)	<b>Rainfall:</b>	35.3
	<b>Area of Watershed Drainage:</b>	298		<b>Weighted CN:</b>	78
	<b>Retention Before Runoff (s):</b>	2.9		<b>Runoff:</b>	32.04
	<b>Area of Watershed Drainage Kite:</b>	89		<b>Weighted CN Kite:</b>	66
	<b>Retention Before Runoff (s) Kite:</b>	5.2		<b>Runoff:</b>	29.75
	<b>Area of Watershed Drainage HTC:</b>	48		<b>Weighted CN HTC:</b>	78
	<b>Retention Before Runoff (s) Kite:</b>	2.7		<b>Runoff:</b>	32.25
	<b>Tons Mined:</b>	1,133,127	<b>% Moisture</b>	5.0	
	<b>Mesonet Pan Evaporation Method</b>	0.08		<b>Pan Evaporation (ins)</b>	
		0.7		<b>Lake Evaporation Coefficient</b>	
	<b>Evaporation Areas</b>	514252		<b>Wingard</b>	
		2545511		<b>J</b>	
		819570		<b>G</b>	
		182		<b>Days</b>	

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