Corporate Environmental Affairs

December 3, 2020

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

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

**Pit Groundwater Volume**

<table>
<thead>
<tr>
<th></th>
<th>Amount (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>531,177,700</td>
</tr>
<tr>
<td>2</td>
<td>55,276,856</td>
</tr>
<tr>
<td>3</td>
<td>117,270,913</td>
</tr>
<tr>
<td>4</td>
<td>52,215,152</td>
</tr>
<tr>
<td>5</td>
<td>214,762,921</td>
</tr>
<tr>
<td>6</td>
<td>296,354,779</td>
</tr>
</tbody>
</table>

**Defined Elements of Consumptive Use**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>Volume of pit water that is driven off (by drying) the mixed material transported off the mine site</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Volume of pit water that is carried away with the mixed material transported off the mining site (shipped)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Volume of pit water that evaporates from the producing mine pit, process water ponds, and lired ponds (excluding structures used for augmentation)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Volume of pit water that is used for other beneficial uses off the mine site</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Defined Elements of Consumptive Use of Pit Groundwater (add lines 7 through 10)</td>
<td></td>
</tr>
</tbody>
</table>

**Pit Groundwater Balance**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>12</td>
<td>Total groundwater from pit</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basin or sub basin)</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Stream Augmentation (Volume of pit groundwater discharged to a surface stream, during flow conditions that are less than or equal to 50% exceedance or median historic flows)</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Precipitation &amp; Run-off (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Recycled Pit Groundwater (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Add lines 13 through 18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Other Consumptive Use (adjusted) Line 12 minus 18</td>
<td></td>
</tr>
</tbody>
</table>

**Total Reported Consumptive Use Of Pit**

<table>
<thead>
<tr>
<th></th>
<th>Amount (gallons)</th>
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<tbody>
<tr>
<td>20</td>
<td>3,458,815</td>
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**Feclty's Equal Proportionate Share (EPS)**

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<tbody>
<tr>
<td>Facility's Equal Proportionate Share (EPS)</td>
<td>62,689,815</td>
<td>at 0.2 inches per year for 962 acres</td>
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</table>

**ASHRAE Evaporation Model**

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<tbody>
<tr>
<td>Area of Pit: 135 acres</td>
<td>Rainfall: 17.55 inches</td>
<td>Runoff: 14.49</td>
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<tr>
<td>Area of Watershed Drainage: 298</td>
<td>Retention Before Runoff: 2.9</td>
<td>Runoff: 22.5551</td>
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<tr>
<td>Weighted CN: 66</td>
<td>Weighted CN: 78</td>
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</tbody>
</table>

**Tons Mined:** 241,237 | % Moisture: 5.0

**Credits**

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