

## RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 2

Year 2022 Permit No. BL 4567

Operator Vale Europe Ltd.,

Location: Clydach SA6 5QR

Parameter	Release Point Number									
	W1		Cooling Water flows (at W1)	W3	W4	W5	W6	W7	W8	W9
	<i>Limits</i>	<i>Results</i>								
Maximum Flow m <sup>3</sup> /hour	<i>625</i>	<b>184.63</b>		---- X	<i>50</i> X	<i>4.5</i> X	<i>11</i> X	---- X	<i>3</i> X	---- X
Mean Flow m <sup>3</sup> /hour		<b>39.35</b>	<b>23</b>							
Maximum Flow m <sup>3</sup> /day	<i>15000</i>	<b>4431.00</b>		---- X	<i>600</i> X	<i>13</i> X	<i>270</i> X	---- X	<i>15</i> X	---- X
Mean Flow m <sup>3</sup> /day		<b>944.47</b>	<b>562</b>							
pH Maximum	<i>9.0</i>	<b>8.65</b>								
pH Mean	<i>N</i>	<b>7.07</b>								
pH Minimum	<i>6.0</i>	<b>6.90</b>								
Temperature °C	<i>+20</i>	<b>9.82</b>								
Temperature Canal Abstraction °C *		<b>11.18</b>								
Suspended Solids mg/l	<i>10.0</i>	<b>2.169</b>				X	X	X		
Total Copper mg/l (Cu)	<i>0.5</i>	<b>0.048</b>						X		
Soluble Copper mg/l (Cu)	<i>0.5</i>	<b>0.046</b>						X		
Total Nickel mg/l	<i>2.0</i>	<b>0.844</b>						X		
Soluble Nickel mg/l	<i>2.0</i>	<b>0.805</b>						X		
Total Cobalt mg/l (Co)	<i>0.5</i>	<b>0.045</b>						X		
Soluble Cobalt mg/l (Co)	<i>0.5</i>	<b>0.045</b>								
Free and Fixed Ammonia as Nitrogen mg/l	<i>5.0</i>	<b>0.182</b>								
Oxygen Demand (PV4) mg/l	<i>3.0</i>	<b>0.787</b>								
Arsenic mg/l (As)	<i>0.3</i>	<b>0.009</b>								
Cadmium mg/l (Cd)	<i>0.1</i>	<b>0.009</b>								
Lead mg/l (Pb)	<i>0.5</i>	<b>0.009</b>								
Zinc mg/l (Zn)	<i>1.0</i>	<b>0.014</b>								
Mercury mg/l (Hg)	<i>0.05</i>	<b>0.009</b>								

Limits in Italics

---- denotes no limit

\* Not a release, abstraction temperature at NGR SN 6955 0145

Date: As Per Email

**Richard De Filippo Sustainability Supervisor**

Signed on behalf of Vale Europe Limited.,

Form W1 30/06/2020

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