

RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 3

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>	Results								
Maximum Flow m ³ /hour	<i>625</i>	94.42		---- X	<i>50</i> X	<i>4.5</i> X	<i>11</i> X	---- X	<i>3</i> X	---- X
Mean Flow m ³ /hour		21	20							
Maximum Flow m ³ /day	<i>15000</i>	2266		---- X	<i>600</i> X	<i>13</i> X	<i>270</i> X	---- X	<i>15</i> X	---- X
Mean Flow m ³ /day		495	469							
pH Maximum	<i>9.0</i>	8.10								
pH Mean	<i>N</i>	7.50								
pH Minimum	<i>6.0</i>	6.20								
Temperature °C	<i>+20</i>	14.56								
Temperature Canal Abstraction °C *		15.27								
Suspended Solids mg/l	<i>10.0</i>	1.46				X	X	X		
Total Copper mg/l (Cu)	<i>0.5</i>	0.06						X		
Soluble Copper mg/l (Cu)	<i>0.5</i>	0.05						X		
Total Nickel mg/l	<i>2.0</i>	0.30						X		
Soluble Nickel mg/l	<i>2.0</i>	0.23						X		
Total Cobalt mg/l (Co)	<i>0.5</i>	0.05						X		
Soluble Cobalt mg/l (Co)	<i>0.5</i>	0.05								
Free and Fixed Ammonia as Nitrogen mg/l	<i>5.0</i>	0.01								
Oxygen Demand (PV4) mg/l	<i>3.0</i>	0.01								
Arsenic mg/l (As)	<i>0.3</i>	0.01								
Cadmium mg/l (Cd)	<i>0.1</i>	0.01								
Lead mg/l (Pb)	<i>0.5</i>	0.01								
Zinc mg/l (Zn)	<i>1.0</i>	0.02								
Mercury mg/l (Hg)	<i>0.05</i>	0.01								

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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