

RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 3

Year 2021 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 ³ /hour	625	209.58		--- X	50 X	4.5 X	11 X	--- X	3 X	--- X
Mean Flow m ³ /hour		92	20.00							
Maximum Flow m ³ /day	15000	5030		--- X	600 X	13 X	270 X	--- X	15 X	--- X
Mean Flow m ³ /day		2204	469.00							
pH Maximum	9.0	8.80								
pH Mean	N	8.19								
pH Minimum	6.0	6.90								
Temperature °C	+20	11.02								
Temperature Canal Abstraction °C *		14.16								
Suspended Solids mg/l	10.0	0.90				X	X	X		
Total Copper mg/l (Cu)	0.5	0.05						X		
Soluble Copper mg/l (Cu)	0.5	0.05						X		
Total Nickel mg/l	2.0	0.36						X		
Soluble Nickel mg/l	2.0	0.31						X		
Total Cobalt mg/l (Co)	0.5	0.05						X		
Soluble Cobalt mg/l (Co)	0.5	0.05								
Free and Fixed Ammonia as Nitrogen mg/l	5.0	0.01								
Oxygen Demand (PV4) mg/l	3.0	0.01								
Arsenic mg/l (As)	0.3	0.01								
Cadmium mg/l (Cd)	0.1	0.01								
Lead mg/l (Pb)	0.5	0.01								
Zinc mg/l (Zn)	1.0	0.01								
Mercury mg/l (Hg)	0.05	0.01								

Limits in Italics

--- denotes no limit

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

Date: As Per Email

Fiona Sharp

Sustainability Co-ordinator

– **for Richard De Filippo Sustainability Supervisor**

Signed on behalf of Vale Europe Limited.,

Form W1 30/06/2020

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