

RELEASES INTO CONTROLLED WATERS

Release Summary for Quarter 1

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	299.17		---	50	4.5	11	---	3	---
				X	X	X	X	X	X	X
Mean Flow m ³ /hour		116.79	58							
Maximum Flow m ³ /day	15000	7180.00		---	600	13	270	---	15	---
				X	X	X	X	X	X	X
Mean Flow m ³ /day		2803.03	1400							
pH Maximum	9.0	8.75								
pH Mean	N	8.36								
pH Minimum	6.0	7.65								
Temperature °C	+20	10.87								
Temperature Canal Abstraction °C *		6.58								
Suspended Solids mg/l	10.0	0.520				X	X	X		
Total Copper mg/l (Cu)	0.5	0.052						X		
Soluble Copper mg/l (Cu)	0.5	0.051						X		
Total Nickel mg/l	2.0	0.301						X		
Soluble Nickel mg/l	2.0	0.368						X		
Total Cobalt mg/l (Co)	0.5	0.051						X		
Soluble Cobalt mg/l (Co)	0.5	0.051								
Free and Fixed Ammonia as Nitrogen mg/l	5.0	0.079								
Oxygen Demand (PV4) mg/l	3.0	0.470								
Arsenic mg/l (As)	0.3	0.010								
Cadmium mg/l (Cd)	0.1	0.011								
Lead mg/l (Pb)	0.5	0.011								
Zinc mg/l (Zn)	1.0	0.012								
Mercury mg/l (Hg)	0.05	0.010								

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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