



# **NSW Health Approved Form 3 Report**

Location:	CLINGCAST METALS	System name:	BAC
Client:	CLINGCAST METALS PTY LTD	-,	
Client No:	N14779		
Contract:	NC10691	Month:	July 2022

### Site and Contact Details

Provide the name, phone numbers (business hours, after hours and mobile numbers) email address and postal address for each of the contact person listed below.

Record	Details		
Site Address	98 BATH ROAD, KIRRAWEE, NSW, 2322		
Cooling water system details (number of cooling towers and unique	Number of cooling towers	UID	
identification number for each cooling tower)	1 • SSC-HLT832583-0026		
Local government authority (where this system is located)	Sutherland Shire Council		
Occupier name and contact details (the person or entity who owns the system)	Name:Paul L ClinganEmail Address:Paul@clingcast.com.auPhone:02 9521 1382 Phone Type: BUS DIRAddress:PO Box 531, NSW, 1499		
Duly qualified person			
Duly qualified person name (the person who attended the site during this month)	LIAM WHITE		
Employer and contact details (the person or entity who operates or maintain the system)	HydroChem Address: 12/71A Milperra Road, Revesby NSW 2212 Tel: (02) 9792 1444 Email: nsw@hydrochem.com.au		





## Period covered by this monthly report

Record	Details
Period being reported (calendar month)	July
Period covered by current RMP (up to 5 year period)	20 Jul 2021 TO 30 Jun 2022
Date(s) of inspection(s) carried out this month	• 05 Jul 2022

## Microbial testing- in accordance with section 3.2 and 3.3 of AS/NZS 3666.3:2011

Record	Details	Date(s) sampled	
Legionella Count	0	05 Jul 2022	
HCC Count	1000	05 Jul 2022	





## Chemical analysis- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details		Details		Date(s) tested
Conductivity/TDS	800 (Min= 500.0 Max= 1500.0)		05 Jul 2022		
рН	8.0 (Min= 7.0 Max= 8.2)		8.0 (Min= 7.0 Max= 8.2)		05 Jul 2022
ТАН	3 (Min= 0.4 Max= 1.0)		05 Jul 2022		
Othor critorio pococcor for offective	Inhibitor 200 (Min= 200.0 Max= 400.0 )		05 Jul 2022		
Other criteria necessary for effective management of corrosion, scaling, fouling and	Chloride	350 (Min= 200.0 Max= 500.0)	05 Jul 2022		
microbial growth	M Alkalinity	120 (Min= 20.0 Max= 300.0 )	05 Jul 2022		
Temperature (measured at the return line)	offline		05 Jul 2022		

## Inspection and other checks- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details	Date(s) reviewed	
Physical condition of the system	satisfactory	05 Jul 2022	
Operation of the bleed control system	operational	05 Jul 2022	
Operation of the make-up water system (including chemical dosing and control system)	operational	05 Jul 2022	
Cycles of concentration	8	05 Jul 2022	

Corrosion rate (involving monthly visual assessment and/or quarterly laboratory testing, as required by RMP)	none visible 05 Jul 2022					
	Coupon Type	Date In	Weight In	Date Out	Weight Out	Corrosion Rate (mpy)
	NA	NA	NA	NA	NA	NA





### Inspection and other checks- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details	Date(s) reviewed	
Adequacy of scale and corrosion inhibition	200 (Min= 200.0 Max= 400.0 )	05 Jul 2022	
Cleanliness of wet surfaces (visibly free from accumulation of sludge, foam, slime, rust, scale, dirt and larger mineral or organic deposits)	satisfactory	05 Jul 2022	
Date of most recent cleaning (in accordance with the RMP)		15 Jul 2022	
Changes in the local environment (for example, local building demolition or construction, which should be recorded if noted during inspection)	no change	05 Jul 2022	

### Remedial actions taken or recommended- in accordance with section 3.7 of AS/NZS 3666.3:2011

Note any remedial actions taken or recommended by the duly qualified person during this month. Action may be taken in response to a significant change in the local environment, work practice or equipment. The duly qualified person can use this step to prompt the occupier to engage a competent person to take a preventative or corrective actions, corrective actions, and potentially undertake a new risk assessment and RMP.

List of remedial action taken or recommended this month.		
no action required		Action Taken





Attach documents and photographs to support the monthly report after this page.

The Regulation require certain result and records to be kept on the premises and made available immediately, or kept electronically and made available within 4 hours of request. These include operating and maintenance manuals; RMPs; results of microbial and testing and chemical analysis; and maintenance records (in accordance with section 3, 7 of AS/NZS 3666.3:2011).

### Details of person completing the form

Name of person completing the form	Contact details (phone number, email, postal address)		
LIAM WHITE	(02) 9792 1444		

Signature of person completing the form	Date
LIAM WHITE	18 Aug 2022

Role of person completing the form	Employer (name of company or organization)
Services Engineer	HydroChem



## CLINGCAST METALS PTY LTD CLINGCAST METALS July 2022

This report summarises all Legionella and HCC results for CLINGCAST METALS for July 2022

## **1. BAC**

## Legionella Species Report:

Date	Service Call ID	Result (CFU/mL)	Acceptable
05 Jul 2022	2207-1585	0	YES

## **1. BAC**

## Heterotrophic Colony Count Report:

Date	Service Call ID	Result (CFU/mL)	Acceptable
05 Jul 2022	2207-1585	1000	YES



### 2. WHAT DO MY RESULTS MEAN?

### Legionella Species Report:

A zero result indicates less than 10 organisms per 1 millilitre (AS/NZS 3896). Results were estimated after an incubation period of 7 days at 36C+/-1C. Sampled using procedures certified to ISO 9001 (Reg No 6465). Analyses carried out using procedures to AS3896. All samples were tested by a NATA Registered Laboratory

#### **Heterotrophic Colony Count Report:**

HCC Result is useful in assessing the efficacy of biocidal treatment and state of microbiological control of organisms in the system. It is not a measurement of Legionella and does not reflect the physical condition of the cooling water.

Results are reported as colony forming units in 1 millilitre of sample. Samples incubated for 48 hours at 36C+/-1C as per AS4276.3.1/2. All samples were tested by a NATA Registered Laboratory

#### **Contact Us**

At HydroChem we're recognised as the clear market leader in Australia's water treatment industry. Our mission is simple: to bring world-class water treatment products and services to clients across Australia. Please contact your account manager for any queries.

# **Cooling Tower Cleaning Report**



Location: Client: Attention: Date: Client No: Contract:	CLINGCAST METALS CLINGCAST METALS PTY LTD PAUL* Technician: NICK VASILESKI 15/07/2022 Service Call: 2207-1584 N14779 Issued By: SYDN NC10691 Contact No: 02 9792 1444	Risk Assessment   If risk identified, refer to JSEA for details (√= pass, X = fail)   ✓ Safe access (falls, slips, trips)?   ✓ Safe manual handling?   ✓ Shutdown procedure?   ✓ Adequate lighting?		
Results				
		BAC CT (SSC-HLT832583-0026-01)		
Tower Insp	ection Before Clean			
Visible Cond		Mildly dirty.		
Cleaning M	laintenance Procedure			
1. Start:	-			
Measures in relation to safety have been observed				
Isolated plan 2. Disinfect	t and dosing equipment	$\square$		
	 between 7 - 7.6 and maintain for 1 hour			
Add chlorinat	ted detergent Hydro 464 and Hydro 360	$\overline{\mathbf{M}}$		
	one hour and keep free chlorine concentration above 10 ppm.			
Neutralise ch 3. Clean:	nlorine where necessary	$\square$		
Drain cooling	g tower	V		
Remove drift	t eliminators. If not, why? (see comments)			
Clean drift el				
	rub high pressure water clean any safely accessible internal sludge, slime and dirt			
4. Re-disinf	idual water and sludge from the tower basin using wet vac.	V		
	) tower with water	$\overline{\mathbf{M}}$		
Adjust pH to	between 7 - 7.6 and maintain for 1 hour			
Add Hydro 36				
	one hour and keep free chlorine concentration above 10 ppm. ission System:			
	, biocide and neutralise chlorine where necessary	$\overline{\mathbf{v}}$		
Restart plant	t as per checklist	$\checkmark$		
Check pH ar	nd inhibitor concentration	$\overline{\mathbf{M}}$		
Initial disin	ifection			
pH at 30 min	utes			
Free chlorine	e at 30 mins			
Second dis	sinfection			
pH at 30 minutes				
Free chlorine	e at 30 mins			
Final readi	ngs			
pН		75		
Inhibitor		260		
	art Check List			
	tower strainer	$\overline{\mathcal{M}}$		
SHUT drain		$\overline{\mathbf{v}}$		
	-up water valves			
	splash eliminators			
OPEN suction	n return valves			
SHUT quick		$\overline{\mathbf{V}}$		
Tower fan ON		$\overline{\mathbf{v}}$		
Circulating pump ON				
Ball valve and water level satisfactory				
Chiller ON/RESET Hatches checked for leaks				
Water treatment re-instated				
	of spillage & clean			

#### Comments

CLEANS: Cooling tower cleaned in accordance with the above procedure. added 1I h360.

#### Site Signature



# Water Treatment Service Report



Location: CLINGCAST I Client: CLINGCAST I Attention: PAUL* Date: 5/07/2022 Client No: N14779 Contract: NC10691	METALS PTY LTD Techn Servic Issuec	e Call: 2207-1585	Risk Assessment   If risk identified, refer to JSEA for details (√= pass, X = fail)   ✓ Safe access (falls, slips, trips)?   ✓ Safe manual handling?   ✓ Adequate lighting?   ✓ Other (refer JSA)
Results			
	BAC CT		
Analysis	(SSC-HLT832583-00	26-01)	
pH	7 8.0	8.2	
M Alkalinity (CaCO3)	20 120	300	
Chloride (CaCO3)	200 350	500	
TDS (CaCO3)	500 800	1500	
labilita.	Hydro 260		
Inhibitor	200 200	400	
Free Available Halogen	Hydro 360 0.4 3	1	
Inhibitor adjustments	0.4 3		
-	Hydro 260		
Adjustment (L / Kg)			
Adjustment (L / Kg)	Hydro		
Inhibitor pump	Hydro 260		
Start% / Added / Finish%	50	50	
Operational	$\checkmark$		
Biocide adjustments			
Adjustment (L / Kg)	Hydro 360		
	Hydro 256		
Adjustment (L / Kg)	0.3		
Biocide pump 1			
Start% / Added / Finish%	Hydro 360	70	
Operational	40 5 V	70	
Biocide pump 2			
Start% / Added / Finish%	Hydro 256		
	30 5	70	
Operational	$\mathbf{\nabla}$		
Other tests	8		
Cycles	0		
ORP set point (mV)			
Water Meter Reading			
Make up Reading			
Bleed Reading			
Samples			
Heterotrophic Colony Count Legionella	N N		
Cooling tower inspection			
Visible condition	Satisfactory.		
How to interpret the r All results in mg/L unless indicated otherwise	results Desired minimum →	Chemical analysis 7 7.7 9.5 ←	Actual result Product name → Hydro 464   Desired maximum Tank start level % → 75 6.2 100 ← Tank final level %
			Amount added in litres ———— 🕈 🗹  ——— Pump operational

#### Comments

CTS: Oxidising biocide residual was outside desired limits. All other residuals are satisfactory. Adjustment was made to correct levels. Chemical stock levels replenished as required. HCC Leg sample taken. Cooling tower drains flushed. Online disinfection carried out for bacterial control.

Site Signature