

21 April 2026

Chris Schneider
Managing Director
National Ceramic Industries Australia
PO Box 765
Maitland NSW 2320

Dear Chris

Environmental Monitoring for National Ceramic Industries Australia - March 2026

Please find enclosed the documentation for the environmental monitoring carried out for National Ceramic Industries Australia during March 2026. Sampling methodology and adopted assessment criteria are detailed below.

1.0 Sampling Methodology

Sampling was performed by AECOM Australia Pty Ltd (AECOM) and sample analysis was carried out by ALS (NATA accreditation 825). All sampling and analysis were carried out in accordance with Environmental Protection Authority (EPA) approved methods with reference to the following Australian Standards:

- monitoring of fine suspended particulates (PM₁₀) on the EPA six-day cycle in accordance with:
 - *AS/NZS 3580.9.6 (2015) Methods for the Sampling and Analysis of Ambient Air – Determination of Suspended Particulate Matter – PM₁₀ High Volume Sampler with Size Selective Inlet – Gravimetric Method.*
- monitoring of fluorides in ambient air in accordance with:
 - *AS/NZS 3580.13.2 (2013) Determination of fluorides – Gaseous and acid-soluble particulate fluorides – Manual, double filter paper sampling.*
- meteorological monitoring in accordance with:
 - *AS 3580.1.1 (2016) – Methods for sampling and analysis of ambient air – Part 1.1 – Guide to siting air monitoring equipment.*
 - *AS 3580.14 (2014) – Methods for sampling and analysis of ambient air – Part 14: Meteorological monitoring for ambient air quality monitoring.*
- monitoring of surface water quality in accordance with:
 - *AS/NZS 5667.1:1998 (R2016) Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.*
 - *AS/NZS 5667.4:1998 (R2016) Guidance on sampling from lakes, natural and manmade.*

2.0 Assessment Criteria

Suspended particulate loads are assessed against the impact assessment criteria defined in the Project Approval conditions (09_0006 – National Ceramic Industries Australia Tile Manufacturing Facility Expansion Project, 19 January 2012). The assessment criteria for PM₁₀ (particulate matter with an aerodynamic diameter of less than 10 µm) are:

- 50 µg/m³ over a 24-hour period
- 30 µg/m³ as an annual average.

Ambient fluoride concentrations are assessed against the guidelines defined in NSW EPA *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (NSW EPA (2022)).

The NSW EPA impact assessment criteria for ambient fluoride are:

- 2.9 µg/m³ over a 24-hour period
- 1.7 µg/m³ over a 7-day period.

Surface waters are assessed in accordance with default trigger values for physical and chemical stressors for southeast Australia in the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG, 2018). These values are:

- pH in the range of 6.5 - 8.5 (Table 3.3.2 - NSW Lowland River)
- electrical conductivity (EC) in the range of 125 – 2200 $\mu\text{S}/\text{cm}$ (Table 3.3.3 - NSW Lowland River).

3.0 Monitoring Results

Monitoring results for the month of March 2026 are presented in the attachments to this letter. Monitoring results for the preceding two months are also presented to demonstrate quarterly trends in results.

The March 2026 monitoring results show that all ambient PM_{10} results were below the short-term impact assessment criterion ($50 \mu\text{g}/\text{m}^3$) as defined in the DPIE Project Approval (Schedule 3, Condition 15, Table 2).

The PM_{10} rolling annual average concentration at the Southeast site remains below the Project Approval annual criterion of $30 \mu\text{g}/\text{m}^3$ with an average of $16.4 \mu\text{g}/\text{m}^3$ following the March monitoring period. The Northwest annual average is also below the criteria and is sitting at $20.0 \mu\text{g}/\text{m}^3$ following the completion of the March monitoring period.

Fluoride results for March remain below the relevant assessment criteria at both the Northwest and Southeast monitoring sites with no exceedances of either the 24-hour ($2.9 \mu\text{g}/\text{m}^3$) or 7-day ($1.7 \mu\text{g}/\text{m}^3$) criteria this month.

Pond 4, being the last detention pond on site before water potentially leaves the site is monitored for pH, electrical conductivity and temperature on a weekly basis. The adopted ANZG 2018 guidelines for pH and conductivity are the default trigger values for slightly disturbed aquatic ecosystems in NSW lowland rivers. pH measurements for this reporting month were within the guideline values of 6.5 to 8.5 pH units. Pond 4 was not observed to be discharging from site during any March inspections.

Electrical conductivity measurements for March were within both upper and lower limits of the adopted guidelines. Water temperature was also measured however no guideline is available for assessment.

A figure showing the monitoring locations and monitoring results and plots can be found attached along with the wind rose for March. Laboratory certificates, field sheets and calibration data along with relevant meteorology data can be provided on request.

If you require any further information, please contact Cyé Buckland on 0488 777 160.

Yours faithfully,



cye.buckland@aecom.com

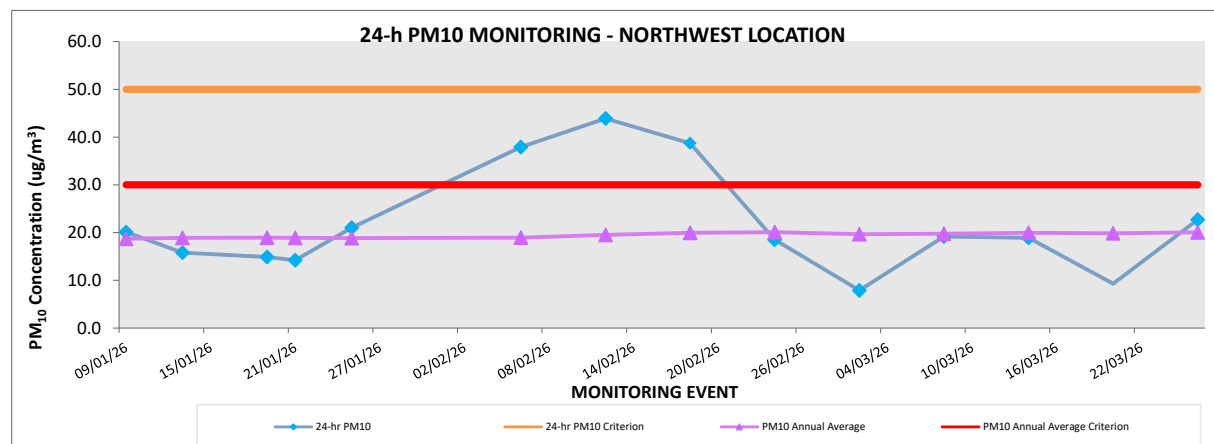
Mobile: +61 488 777 160

encl: Monitoring data tables and charts, wind rose, monitoring locations

North West Monitoring Location - 24 hour PM10 Monitoring

North West - 24 hour PM10 Monitoring				
January 2026 to March 2026				
Monitoring Event	24-hr PM ₁₀	24-hr PM ₁₀ Criterion	PM ₁₀ Annual Average	PM ₁₀ Annual Average Criterion
	(µg/m ³)	(µg/m ³)	(µg/m ³)	
9-Jan-26	20.1	50	18.7	30
13-Jan-26	15.8	50	18.9	30
19-Jan-26	14.9	50	19.0	30
21-Jan-26	14.2	50	18.9	30
25-Jan-26	21.0	50	18.8	30
6-Feb-26	37.9	50	18.9	30
12-Feb-26	43.9	50	19.5	30
18-Feb-26	38.7	50	20.0	30
24-Feb-26	18.5	50	20.1	30
2-Mar-26	7.9	50	19.7	30
8-Mar-26	19.2	50	19.8	30
14-Mar-26	18.9	50	19.9	30
20-Mar-26	9.3	50	19.8	30
26-Mar-26	22.7	50	20.0	30

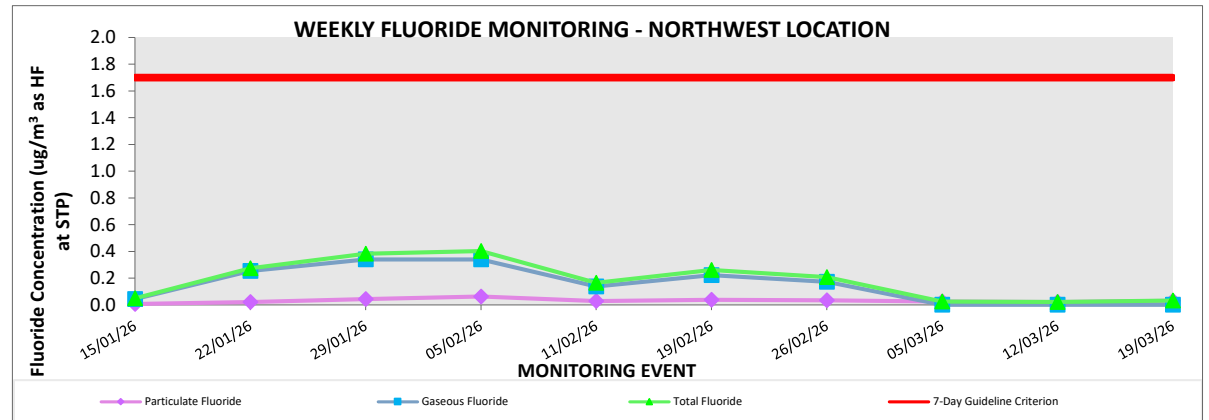
Samples on 1 and 31 January invalidated.



North West Monitoring Location - 7 Day Fluoride Monitoring

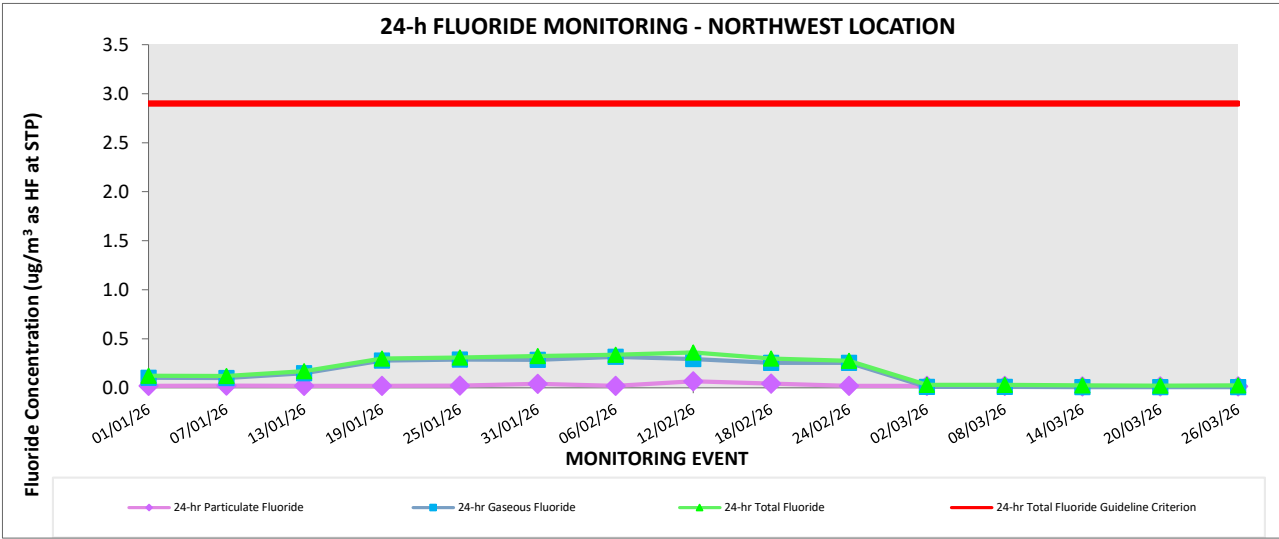
North West - 7 Day Fluoride Monitoring	
January 2026 to March 2026	

Monitoring Event		Particulate Fluoride	Gaseous Fluoride	Total Fluoride	7-Day Guideline Criterion
Start Date	End Date	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)
8-Jan-26	15-Jan-26	0.007	0.043	0.050	1.7
15-Jan-26	22-Jan-26	0.022	0.253	0.275	1.7
22-Jan-26	29-Jan-26	0.043	0.340	0.383	1.7
29-Jan-26	5-Feb-26	0.063	0.340	0.403	1.7
5-Feb-26	11-Feb-26	0.028	0.138	0.166	1.7
11-Feb-26	19-Feb-26	0.039	0.222	0.261	1.7
19-Feb-26	26-Feb-26	0.035	0.172	0.207	1.7
26-Feb-26	5-Mar-26	0.025	0.001	0.026	1.7
5-Mar-26	12-Mar-26	0.021	0.001	0.022	1.7
12-Mar-26	19-Mar-26	0.031	0.001	0.032	1.7
19-Mar-26	25-Mar-26	0.023	0.028	0.051	1.7



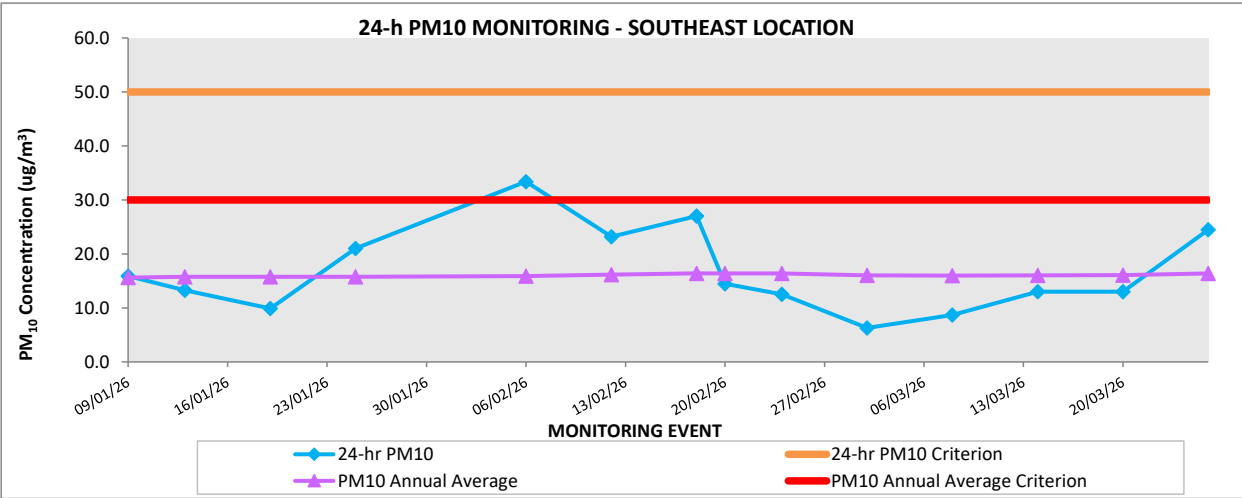
North West Monitoring Location - 24 hour Fluoride Monitoring

North West - 24 hour Fluoride Monitoring				
January 2026 to March 2026				
Monitoring Event	24-hr Particulate Fluoride	24-hr Gaseous Fluoride	24-hr Total Fluoride	24-hr Total Fluoride Guideline Criterion
	(µg/m³ as HF at STP)	(µg/m³ as HF at STP)	(µg/m³ as HF at STP)	(µg/m³ as HF at STP)
01-Jan-26	0.021	0.102	0.123	2.9
07-Jan-26	0.022	0.1	0.122	2.9
13-Jan-26	0.021	0.15	0.171	2.9
19-Jan-26	0.021	0.279	0.300	2.9
25-Jan-26	0.022	0.288	0.310	2.9
31-Jan-26	0.04	0.285	0.325	2.9
06-Feb-26	0.021	0.316	0.337	2.9
12-Feb-26	0.067	0.294	0.361	2.9
18-Feb-26	0.043	0.255	0.298	2.9
24-Feb-26	0.021	0.254	0.275	2.9
02-Mar-26	0.02	0.01	0.030	2.9
08-Mar-26	0.020	0.010	0.030	2.9
14-Mar-26	0.016	0.008	0.024	2.9
20-Mar-26	0.015	0.007	0.022	2.9
26-Mar-26	0.016	0.008	0.024	2.9



South East Monitoring Location - 24 hour PM10 Monitoring

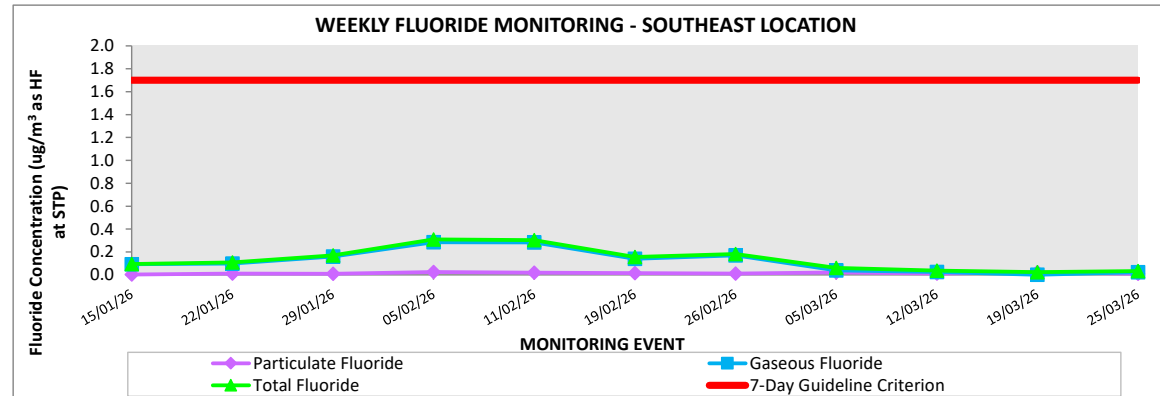
South East - 24 hour PM10 Monitoring				
January 2026 to March 2026				
Monitoring Event	24-hr PM ₁₀	24-hr PM ₁₀ Criterion	PM ₁₀ Annual Average	PM ₁₀ Annual Average Criterion
	(µg/m ³)	(µg/m ³)	(µg/m ³)	
09-Jan-26	15.9	50	15.6	30
13-Jan-26	13.3	50	15.8	30
19-Jan-26	9.9	50	15.8	30
25-Jan-26	21.0	50	15.8	30
06-Feb-26	33.4	50	15.9	30
12-Feb-26	23.2	50	16.1	30
18-Feb-26	27.0	50	16.4	30
20-Feb-26	14.5	50	16.4	30
24-Feb-26	12.5	50	16.4	30
02-Mar-26	6.3	50	16.0	30
08-Mar-26	8.7	50	16.0	30
14-Mar-26	13.0	50	16.0	30
20-Mar-26	13.0	50	16.1	30
26-Mar-26	24.5	50	16.4	30



South East Monitoring Location - 7 Day Fluoride Monitoring

South East - 7 Day Fluoride Monitoring					
January 2026 to March 2026					

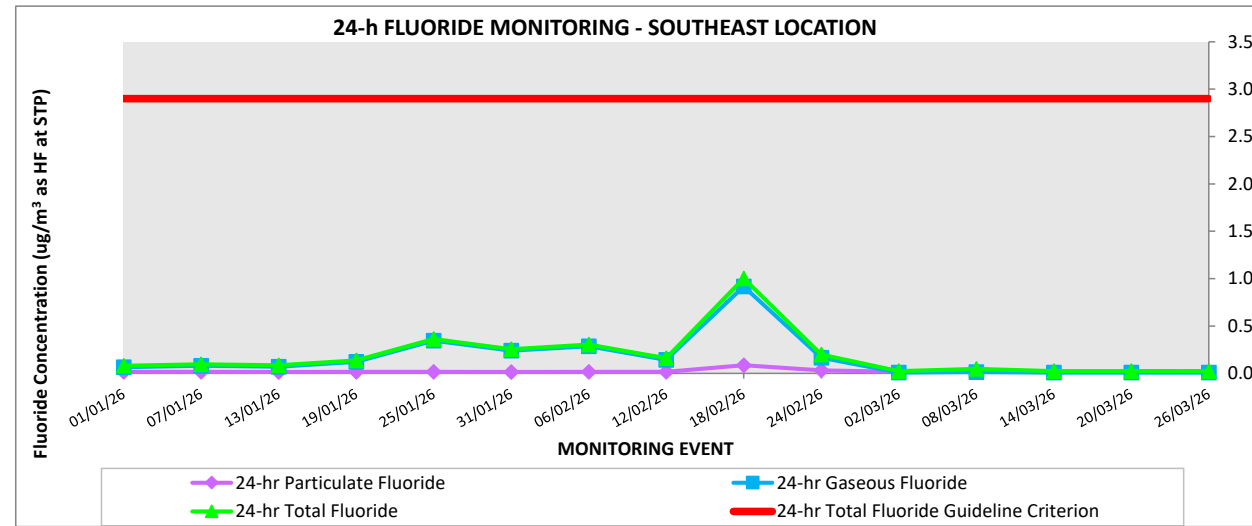
Monitoring Event		Particulate Fluoride	Gaseous Fluoride	Total Fluoride	7-Day Guideline Criterion
Start Date	End Date	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)
8-Jan-26	15-Jan-26	0.003	0.092	0.095	1.7
15-Jan-26	22-Jan-26	0.011	0.098	0.109	1.7
22-Jan-26	29-Jan-26	0.010	0.160	0.170	1.7
29-Jan-26	5-Feb-26	0.025	0.285	0.310	1.7
5-Feb-26	11-Feb-26	0.019	0.284	0.303	1.7
11-Feb-26	19-Feb-26	0.016	0.140	0.156	1.7
19-Feb-26	26-Feb-26	0.011	0.171	0.182	1.7
26-Feb-26	5-Mar-26	0.022	0.039	0.061	1.7
5-Mar-26	12-Mar-26	0.012	0.026	0.038	1.7
12-Mar-26	19-Mar-26	0.023	0.001	0.024	1.7
19-Mar-26	25-Mar-26	0.009	0.024	0.033	1.7



South East Monitoring Location - 24 hour Fluoride Monitoring

South East - 24 hour Fluoride Monitoring
January 2026 to March 2026

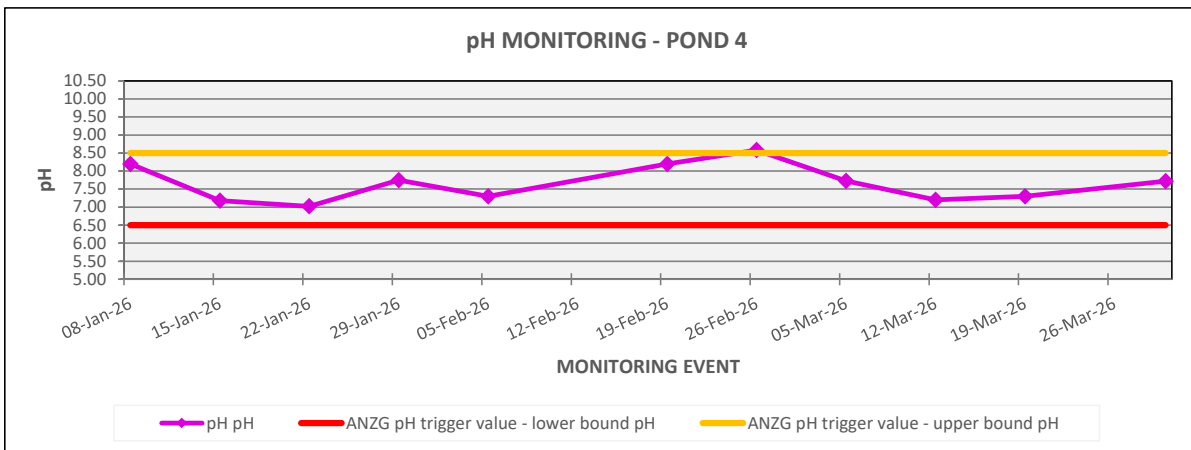
Monitoring Event	24-hr Particulate Fluoride	24-hr Gaseous Fluoride	24-hr Total Fluoride	24-hr Total Fluoride Guideline Criterion
	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)	($\mu\text{g}/\text{m}^3$ as HF at STP)
01-Jan-26	0.016	0.064	0.080	2.9
07-Jan-26	0.016	0.081	0.097	2.9
13-Jan-26	0.015	0.071	0.086	2.9
19-Jan-26	0.016	0.122	0.138	2.9
25-Jan-26	0.016	0.346	0.362	2.9
31-Jan-26	0.015	0.241	0.256	2.9
06-Feb-26	0.016	0.287	0.303	2.9
12-Feb-26	0.017	0.143	0.160	2.9
18-Feb-26	0.086	0.917	1.003	2.9
24-Feb-26	0.033	0.165	0.198	2.9
02-Mar-26	0.016	0.008	0.024	2.9
08-Mar-26	0.031	0.015	0.046	2.9
14-Mar-26	0.016	0.008	0.024	2.9
20-Mar-26	0.016	0.008	0.024	2.9
26-Mar-26	0.017	0.008	0.025	2.9



Pond 4 - Weekly pH Monitoring				
January 2026 to March 2026				

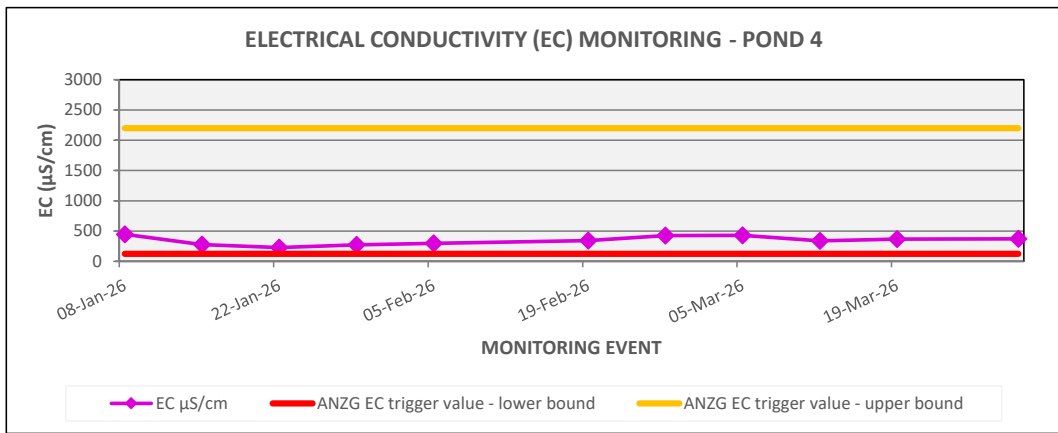
Monitoring Event	pH	ANZG pH trigger value - lower bound	ANZG pH trigger value - upper bound	Unable to sample
	pH	pH	pH	
08-Jan-26	8.20	6.5	8.5	
15-Jan-26	7.18	6.5	8.5	
22-Jan-26	7.02	6.5	8.5	
29-Jan-26	7.75	6.5	8.5	
05-Feb-26	7.30	6.5	8.5	
19-Feb-26	8.20	6.5	8.5	
26-Feb-26	8.58	6.5	8.5	
05-Mar-26	7.73	6.5	8.5	
12-Mar-26	7.20	6.5	8.5	
19-Mar-26	7.30	6.5	8.5	
30-Mar-26	7.72	6.5	8.5	

Indicates results outside the criteria (6.5 - 8.5)



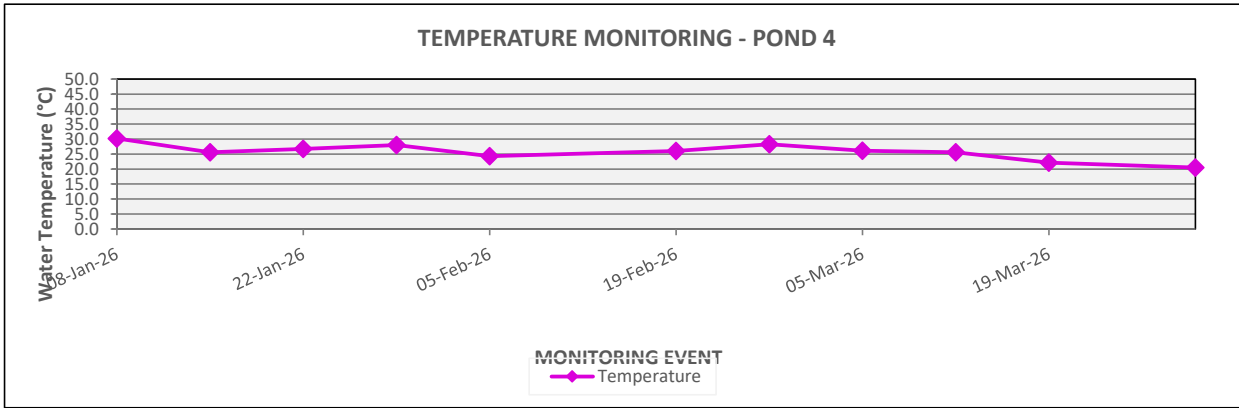
Pond 4 - Weekly EC Monitoring				
January 2026 to March 2026				

Monitoring Event	EC	ANZG EC trigger value - lower bound	ANZG EC trigger value - upper bound	Unable to sample
	µS/cm	µS/cm	µS/cm	
08-Jan-26	447	125	2200	
15-Jan-26	279	125	2200	
22-Jan-26	228	125	2200	
29-Jan-26	271	125	2200	
05-Feb-26	299	125	2200	
19-Feb-26	345	125	2200	
26-Feb-26	424	125	2200	
05-Mar-26	431	125	2200	
12-Mar-26	337	125	2200	
19-Mar-26	367	125	2200	
30-Mar-26	373	125	2200	



Pond 4 - Weekly Temperature Monitoring		
January 2026 to March 2026		

Monitoring Event	Temperature	Unable to sample
	°C	
08-Jan-26	30.2	
15-Jan-26	25.6	
22-Jan-26	26.7	
29-Jan-26	28.0	
05-Feb-26	24.3	
19-Feb-26	26.0	
26-Feb-26	28.3	
05-Mar-26	26.1	
12-Mar-26	25.6	
19-Mar-26	22.1	
30-Mar-26	20.5	

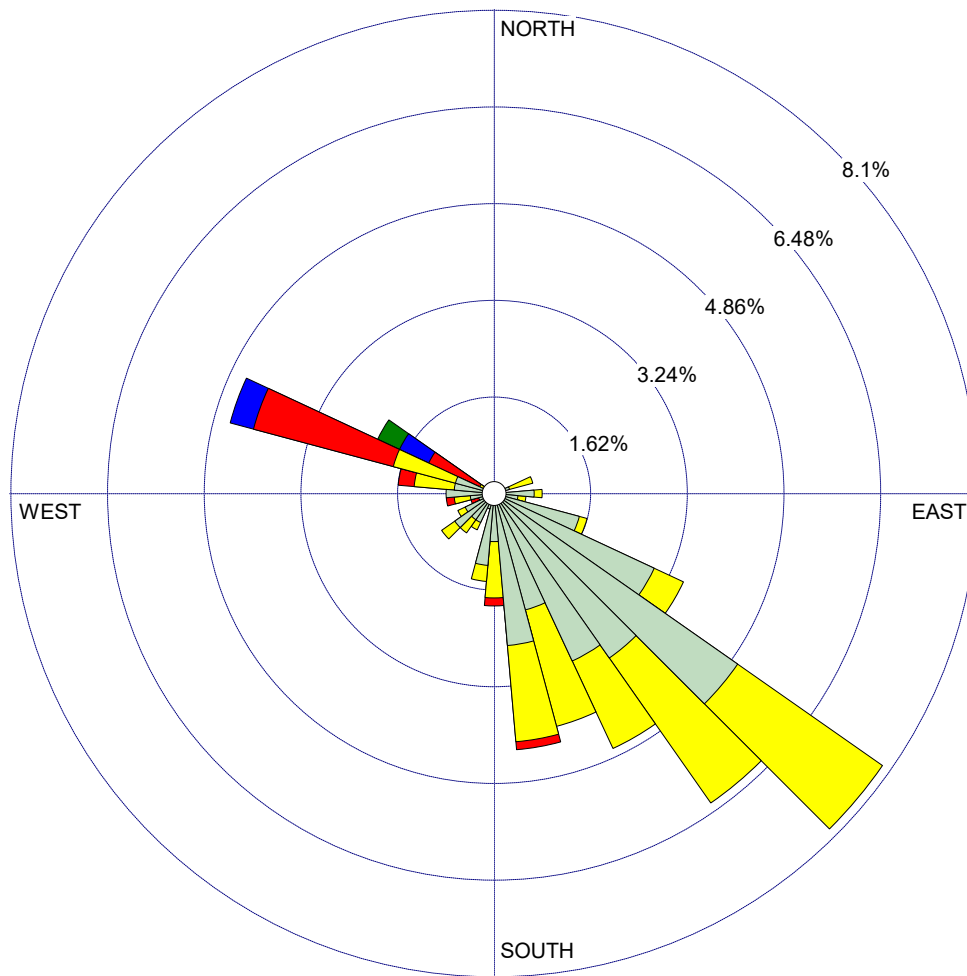


WIND ROSE PLOT:

NCIA Meteorological Data
March 2026

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- ≥ 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 35.35%

COMMENTS:

DATA PERIOD:

Start Date: 1/03/2026 - 00:00
End Date: 31/03/2026 - 23:00

COMPANY NAME:

MODELER:

CALM WINDS:

35.35%

TOTAL COUNT:

649 hrs.

AVG. WIND SPEED:

1.24 m/s

DATE:

15/04/2026

PROJECT NO.:

60613063



Legend

0 250 500 Meters



Ambient Air Monitoring Station

NCIA Site Boundary

Watercourse

AECOM

Source: Imagery © Nearmap 2021