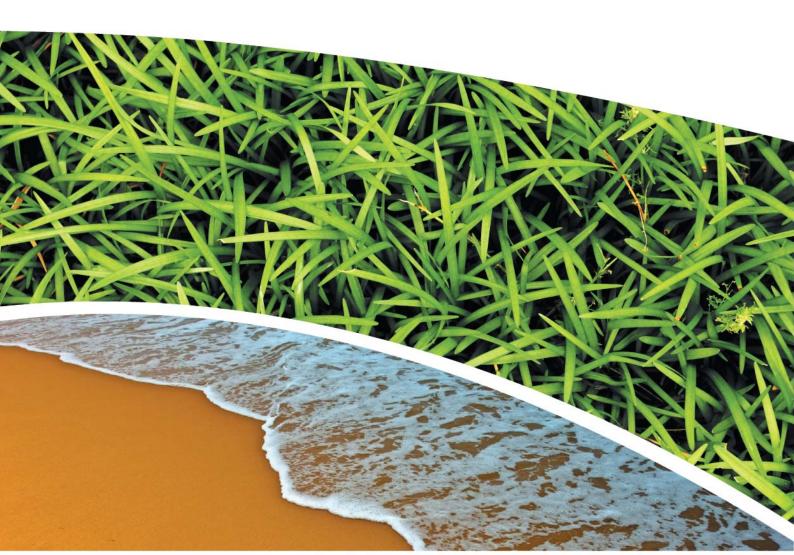


WATER MONITORING REPORT (APRIL TO JUNE 2025)
CONCRUSH FACILITY, TERALBA NSW 2284

Prepared for CONCRUSH PTY LTD
Prepared by RCA Australia
RCA ref 13589a-262/0
JULY 2025





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APPENDIX A

FIELD SHEETS

APPENDIX B

LABORATORY REPORT SHEETS

RCA ref 13589a-262/0

16 July 2025

Concrush Pty Ltd 21 Racecourse Road Teralba NSW 2284

Attention: Kevin Thompson CC: Ross Lo Monaco



Environmental Engineering

Hydrogeology

Construction Materials Testing

Environmental Monitoring

Noise & Vibration

Occupational Hygiene

WATER MONITORING REPORT (APRIL TO JUNE 2025) CONCRUSH FACILITY, TERALBA

1. INTRODUCTION

This report presents the findings of water monitoring conducted at the Concrush Resource Recovery Facility in Teralba, NSW, during the April, May and June 2025.

The site was an operational facility over the entirety of the monitored area for the reporting period. Some construction is ongoing in the northern portion of the site for Sediment Basin 1 and the new weighbridge.

The site's environmental protection licence, EPL13351, specifies water monitoring be undertaken at the two (2) surface water discharge locations (refer to **Figure 2** in Section 3) weekly during discharge. The remainder of monitoring was initially outlined in plans submitted as part of the State Significant Development application for an increase to the facility's capacity (as referenced on the Concrush website¹). There has been updates to the documentation following the completion of twelve (12) months of operation, in March 2024, and at the time of writing the guidance document is considered to be the:

- Groundwater Management Plan (GMP, Ref [1]).
 - It is noted that the ongoing monitoring requirements for groundwater will be incorporated into the Operational Environmental Management Plan for the site following the finalisation of modification arrangements currently in progress.
- Discharge Verification and Management Report (DVMP, Ref [2]).

This report was undertaken at the request of Ross Lo Monaco of Concrush Pty Ltd.

¹ Concrush.com.au

2. SITE IDENTIFICATION AND DESCRIPTION

The site is described as 21 Racecourse Road, Teralba and part Lot 2, DP 220347. Additional site details are shown in **Table 1** and the site extent is shown in **Figure 1** below.

Table 1Site Details

Current zoning ²	E5 – Heavy Industrial.			
Current use	Concrush resource recovery facility.			
Size of site	Approximately 4.8ha.			
Surrounding land use to the:				
	Lot 1 DP220347.			
North	Industrial – storage yard for pre-cast concrete panels operated by others.			
South	Part of Lot 2 DP220347.			
South	Industrial – scrap metal recycling yard operated by others.			
East	Racecourse Road and then Cockle Creek.			
West	Main Northern Rail line and then wetlands.			
Nearest sensitive receptor (human health)	Residential housing, located approximately 360m southeast across Cockle Creek.			
Nearest sensitive receptor (environmental)	Cockle Creek, located approximately 35m east and wetland approximately 30m west.			



Figure 1 Project Site Location and Layout (aerial as of 25 May 2025)



² https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address

3. MONITORING DETAILS

The site's water management scheme comprises:

- Collection of runoff and seepage from the Green Waste catchment, anticipated to potentially contain nutrients, in the Leachate Pond (LP) which was lined with a flexible membrane liner with a permeability of less than 10⁻¹⁴ m/s to prevent potential contamination of groundwater.
- Treatment of nutrients via a constructed Wetland (WL) which has also been lined and populated with appropriate plants to maximise the removal of nutrients. Water is pumped into the WL from the LP.
- Collection of runoff from the remainder of the site into Sediment Dam 1 (SED1) and Sediment Dam 2 (SED2). Water from the Wetland discharges into SED2.

Concrush aims to re-use all surface water on site such that none is discharged however in high rainfall events or periods, some discharge may occur from one or both of the Sediment Dams into the un-named waterway along the western border of the site. This waterway runs to the north and Cockle Creek at the northern end of the site and to the south, wetlands and eventually Cockle Creek at the southern end of the site; the location at which the flow direction changes has not been identified and may vary with seasonal conditions.

A total of eight (8) monitoring locations are situated on-site comprising four (4) surface water locations (LP, WL, SED1 and SED2), two (2) discharge points (DIS-SED1 and DIS-SED2) and two (2) groundwater locations (GW1 and GW3). Additionally, two (2) off-site background surface water locations (SW1 and SW2) are included in the monitoring programme. These locations are shown in **Figure 2**. It is noted that, due to significant vegetation growth to the south of the site, that the sampling undertaken for SW2 has been moved to within approximately ten (10) metres of the location of DIS-SED2, estimated to be thirty (35) metres to the north of the initial sampling location.



Figure 2 Water sampling locations (aerial as of 25 May 2025)



Monitoring is undertaken on a monthly basis, typically the last working day of the month however adjusted for the compliance of dust monitoring undertaken at the site, and comprises the recording of depths of water, field readings using a calibrated water quality monitor and the collection of samples for chemical analyses as detailed in **Table 2** below.

Table 2Analytical Scope

Location	Monitored Parameters				
GW1	Depth to groundwater.				
	Field readings.				
GW3	 Nutrients (ammonia, nitrate, nitrite, total phosphorous). 				
GVVS	 Hydrocarbons⁴ once a quarter. 				
	Field observation of water depth at LP.				
LP	Field readings.				
	pH, electrical conductivity (EC), total suspended solids (TSS).				
WL	Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).				
SED1	Field readings.				
0500	pH, EC, TSS.				
SED2	Dissolved metals ³ .				
SW1	 Hydrocarbons⁴. 				
SW2	Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).				

In the event of discharge from one or both of the Sediment Dams, sampling is undertaken at the discharge points and the associated background surface water locations. Analyses comprise field readings, general water quality, dissolved metals, hydrocarbons and nutrients.

Field sheets are presented in **Appendix A** and laboratory reports are included in **Appendix B**.

Results of the water monitoring are compared to criteria as specified in the GMP (Ref [1]) and / or the DVMP (Ref [2]) on a monthly basis and presented to Concrush in a table and graphs.

⁴ Benzene, toluene, ethylbenzene, xylene, naphthalene (BTEXN), total recoverable hydrocarbons (TRH) and polycyclic aromatic hydrocarbons (PAH).



³ Aluminium, arsenic, cadmium, chromium, hexavalent chromium, cobalt, copper, lead, nickel, selenium, zinc, boron. Samples are 0.45μm field filtered prior to preservation for metals analyses.

4. MONITORING RESULTS

4.1 GROUNDWATER

Results of the groundwater monitoring undertaken in the quarter compared to the ecological criteria for fresh and marine waters (Ref [3]) are presented in **Table 3** below. In summary:

- The depth to groundwater varied between April and June at both wells. It is noted that at GW1, the depth was measured from ground level, whereas at GW3, the measurements included the length of the standpipe protruding above ground. Historical assessments indicate that the groundwater flow direction is from the western boundary of the site toward the eastern boundary.
- The temperature of the groundwater measured by the portable meter at the field slightly varied over the monitoring period however not noticeably between the wells.
- At GW1, the pH ranged from slightly acidic to slightly alkaline, while at GW3, it was generally
 neutral to slightly acidic. It is noted that the May pH data for both wells were obtained from the
 portable field meter due to a paperwork issue with laboratory sample submission; April and June
 data came from laboratory analysis.
- The EC in both wells fell within the range indicative of fresh water. It is noted that the May data for both wells were obtained from the portable meter at the field due to the above paperwork issue.
- The turbidity of the groundwater obtained from the portable meter at the field was high at both
 wells. A non-return foot valve was used to collect the water samples, as alternative methods
 were not feasible due to kinks in the pipes. RCA personnel took care to avoid contact between
 the tip of the foot valve and the sediment at the base of the wells however it is considered that
 the sampling methodology may have increased the turbidity.
- The dissolved oxygen in both wells obtained from the portable meter at the field was low, indicative of anoxic conditions. It is noted that the sampling method can cause higher than representative dissolved oxygen levels.
- Ammonia (as N) and total phosphorus (as P) consistently exceeded the relevant ecological
 criteria however align with historical data. It is noted that the site is located in the Cockle Creek
 Estuary catchment that forms part of the broader Lake Macquarie catchment area, an
 ecosystem known for natural nutrient inflows that can contribute to higher concentrations of
 nitrogen and phosphorus.
- Nitrate (as N) and NO_x (as N) were either non-detected or at low concentrations below the relevant criteria, consistent with historical data. Low dissolved oxygen levels are considered likely to inhibit the activity of nitrifying bacteria responsible for converting ammonia to nitrite and subsequently to nitrate.
- BTEXN compounds were not detected, consistent with historical data, except at BH3 in May.
 RCA was concerned about the potential for cross-contamination from another project and therefore undertook re-sampling on 12 June 2025; BTEXN was not present, and it is considered that the May result is unlikely to be representative of groundwater quality.
- TRH was not detected in either well, consistent with historical data, except TRH >C₆-C₁₀ (volatile compounds) during the May sampling round at GW3. There were no detected concentrations in the sample on 12 June 2025 and as such the May result is not considered to be representative of the groundwater quality.
- PAH were non-detected, consistent with historical data.



Table 3 Groundwater Analysis Results.

Analysis	Aquatic Ecosystem Guideline ^A			GW1			GW3		
Date Sampled	95% Fresh	95% Marine	28/04	30/05	30/06	28/04	30/05	30/06	
Depth to Groundwater			0.71	1.54	2.16	3.00	3.00	3.44	
Temperature (°C)			21.81*	20.61*	17.01*	21.84*	20.64*	17.95*	
pH (pH units)			7.6	5.66*	7.1	6.8	7.0*	6.3	
EC (mS/cm)			0.75	0.45*	1.10	1.30	1.43*	1.30	
Turbidity (Nephelometric Turbidity unit)			278*	637*	>1000*	656*	105*	486*	
Dissolved Oxygen			0.69*	1.31*	1.67*	1.07*	4.95*	5.38*	
Ammonia	0.9	0.91	<u>2.1</u>	<u>1.1</u>	<u>2.4</u>	<u>1.3</u>	<u>1.0</u>	<u>2.9</u>	
Nitrate	2	.4	<0.005	<0.005	0.006	<0.005	<0.005	<0.01	
NOx	0.04		<0.005	<0.005	0.008	0.006	0.009	<0.01	
Total Phosphorus	0.0)25	0.3	0.4	0.6	0.1	0.2	0.1	
Benzene	0.95	0.5		<0.001			0.001/<0.001#		
Toluene	0.	18		<0.001			0.002/<0.001#		
Ethylbenzene	0.08	0.005		<0.001			<0.001/<0.001 [#]		
Meta- and para-Xylene	0.2	275		<0.002			0.003/<0.002#		
Ortho-Xylene	0.	35		<0.001			<0.001/<0.001 [#]		
TRH C6-C40	0.0	007		<0.26			0.141/<0.26#		
Naphthalene	0.016	0.07		<0.0001			0.0003/<0.0001#		
Phenanthrene ^B	0.002	0.002		<0.0001			<0.0001		
Anthracene ^B	0.0004 0.0004			<0.0001			<0.0001		
Fluoranthene ^B	0.0014 0.0014			<0.0001			<0.0001		
Benzo(a)pyrene ^B	0.0002	0.0002		<0.0001			<0.0001		

All units in mg/L except where otherwise noted

A Criteria from ANZG (Ref [3]) with the exception of NOx and phosphorus for Lowland Rivers (coastal environment where available)
Results shown in **bold** more than 95% freshwater guidelines/ the lowland (coastal) river guidelines

-- indicates no guidelines applicable and / or analyses not required during the specific month

B Bio-accumulative Compounds. Results with '<' below the detection limit Results shown in <u>underline</u> in excess of 95% marine water guidelines

Data marked with an asterisk (*) were obtained using a portable multiparameter meter (Horiba).

The second value as marked with a hashtag (#) are the results of the re-sample and are considered representative



4.2 SURFACE WATERS

Results of the surface water monitoring undertaken in the quarter compared to the criteria (Ref [2]) are presented in **Table 5** and **Table 4** below. No active flow was observed at SW1 in June 2025; only stagnant water was present, and as a result, no samples were collected.

In summary:

- pH levels remained within the trigger range at LP and WL throughout the quarter, with the exception of a marginal exceedance at LP in June. In contrast, pH consistently exceeded the trigger range at both SED1 and SED2 except for SED2 in May indicating alkaline conditions. pH levels at background sites SW1 and SW2 were slightly above the upper trigger value during the April monitoring round but remained within trigger values in all subsequent rounds conducted throughout the quarter.
- No EC values exceeded the trigger value at any location throughout the monitoring period, except for LP and WL in June.
- TSS were considered low to moderate in all samples.
- Ammonia concentrations were above the trigger value at LP and WL throughout the quarter, except for one (1) monitoring event in June at WL. Elevated concentrations were recorded during two (2) events at SED2, and during one (1) event each at SED1 and in the background waters.
 - It is noted that plant matter was difficult to exclude from the WP samples, and any elevated ammonia concentrations observed may, at least in part, reflect this material rather than the actual concentrations in the water.
- Nitrate and NOx were either undetected or detected at low concentrations below the trigger values at LP and WL during this quarter except for LP in April. Similarly, these parameters exceeded trigger values during this quarter at both SED1 and SED2, with the exception of SED2 in June, while they were detected above the trigger values in one (1) event each in the background waters.
- Total nitrogen and total phosphorus consistently exceeded the trigger values at all monitoring locations except for total phosphorus at SED1 in May and June, and at SW1 in May; the most significant nitrogen compound was total Kjeldahl nitrogen.
- Aluminium exceeded the trigger value in two (2) monitoring events at both SED1 and SED2, while it was either non detected or detected at low concentrations at background waters during the monitoring period except for SW2 in April. Chromium was below the trigger value at all locations throughout the monitoring period except for two (2) events in April and May at SED2. Hexavalent chromium exceeded the trigger value in the Sediment Dams during the monitoring rounds but was not detected in the background waters in any event. Zinc exceeded the trigger value only in SW2 during the May round. The remaining metals were either non-detected or detected at low concentrations well below the respective trigger values at all locations.
- There were no detected hydrocarbons, except for a low concentration (3.3% of the trigger value) at SED2 in June.



 Table 4
 Surface Water Analysis Results – Green Waste Catchment

Analyte	Trigger		LP			WL	
Date Sampled	Values	28/04	30/05	30/06	28/04	30/05	30/06
pH (pH units)	6.5-8.0	7.5	7.2	8.1	7.2	6.9	7.2
EC (μS/cm)	125-2200	1300	1700	2300	790	1900	2800
TSS	NA	28	25	58	7	19	18
Ammonia	0.0264	0.076	0.96	0.04	0.86	0.67	0.008
Nitrate	0.44	2.1	<0.01	<0.02	0.18	<0.02	<0.01
NOx	0.491	2.4	<0.01	<0.02	0.3	<0.02	<0.01
Total Nitrogen	0.645	13	8.9	12	5.9	9.8	10
Total Phosphorus	0.0168	1.7	5.0	5.5	2.3	5.1	6.4

All units in mg/L except where otherwise noted

NA - not applicable

Results shown in bold in excess of the trigger values (Ref [2])

Results with '<' are below the detection limit



 Table 5
 Surface Water Analysis Results – Remainder of Site

Analyte	Trigger		SED1			SW1			SED2			SW2			
Date Sampled	Values	28/04	30/05	30/06	28/04	30/05	30/06	28/04	30/05	30/06	28/04	30/05	30/06		
pH (pH units)	6.5-8.0	10	9.8	9.2	8.2	7.4		10.3	7.4	9.3	8.3	7.2	7.7		
EC (μS/cm)	125-2200	300	280	350	570	950		500	550	560	590	890	1100		
TSS	NA	90	53	29	57	<5		50	42	40	72	5	10		
Ammonia	0.0264	0.019	0.13	<0.005	<0.005	1.2		0.067	0.15	0.007	<0.005	0.6	<0.005		
Nitrate	0.44	0.53	0.69	1.0	0.16	0.5		1.9	3.3	<0.02	0.01	<0.005	2.0		
NOx	0.491	0.82	1.0	1.0	0.2	0.54		2.8	3.3	<0.02	0.02	0.008	2.0		
Total Nitrogen	0.645	1.6	1.3	1.3	1.6	0.9		5.6	3.8	3.8	1.7	1.3	4.8		
Total Phosphorus	0.0168	0.09	<0.05	<0.05	0.2	<0.05		0.3	0.4	0.4	0.2	0.06	0.05		
Aluminium	0.08	0.22	0.39	0.05	0.08	<0.01		0.22	0.13	0.05	0.09	0.01	<0.01		
Arsenic	0.094	0.002	0.003	0.004	0.004	0.002	Stagnant	0.01	0.008	0.009	0.003	0.003	0.002		
Cadmium	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	Water – No	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Chromium	0.02	0.018	0.019	0.012	0.002	<0.001	sample	0.028	0.032	0.019	<0.001	<0.001	<0.001		
Hexavalent Chromium	0.0033	0.02	0.02	0.01	<0.005	<0.005		0.03	0.03	0.02	<0.005	<0.005	<0.005		
Cobalt	0.015	<0.001	<0.001	<0.001	<0.001	<0.001		0.001	0.002	0.001	<0.001	0.001	<0.001		
Copper	0.02	0.005	0.005	0.005	0.005	0.003		0.008	0.011	0.009	0.006	0.002	0.002		
Lead	0.0056	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Nickel	0.013	<0.001	<0.001	<0.001	0.001	0.002		0.002	0.003	0.002	<0.001	0.002	0.001		
Selenium	0.018	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Zinc	0.015	<0.001	0.003	0.003	0.01	0.01		0.001	0.003	0.003	0.01	0.029	0.01		
Boron	0.68	0.06	0.04	0.06	0.31	0.1		0.09	0.06	0.06	0.36	0.1	0.1		
TRH C ₆ -C ₄₀	10	<0.26	<0.26	<0.26	<0.26	<0.26		<0.26	<0.26	0.33	<0.26	<0.26	<0.26		

All units in mg/L except where otherwise noted NA – Not applicable

Results shown in **bold** are in excess of the management triggers (Ref [2])

Results with '<' are below the detection limit



4.3 DISCHARGE

The Bureau of Meteorology weather station at Cooranbong recorded a total rainfall of **685.0 mm** during the monitoring period. This was distributed as follows: 228 mm in April, 448.4 mm in May, and 8.6 mm in June. **Figure 3** below illustrates these monthly totals, along with the cumulative rainfall for each month.

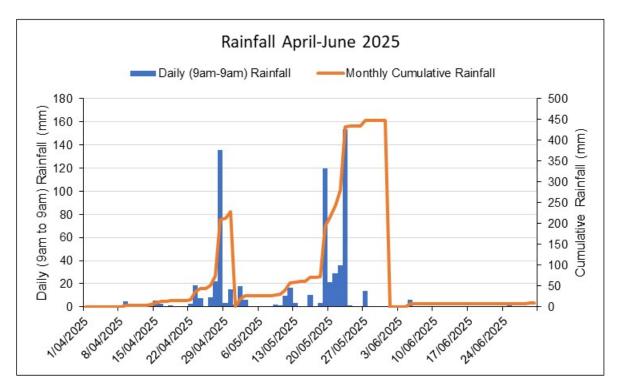


Figure 3 Rainfall for the Monitoring Period (sourced from Bureau of Meteorology weather station at Cooranbong)

Two (2) discharge events occurred in the monitoring period: 28th April and 20th May 2025 (157.2 mm and 141.2 mm as at 9 a.m. respectively) from both sediment dams. Samples were also collected at SW1 and SW2 during the discharge events. **Table 6** presents water quality data for the discharge at the spillways and background surface waters.



 Table 6
 Discharge and Background Water Quality

Parameters	Trigger values	DIS-SED1	SW1	DIS-SED2	SW2	DIS-SED1	SW1	DIS-SED2	SW2	
Date Sampled	- i rigger values		28 th Ap	oril 2025	il 2025		20 th Ma		ay 2025	
pH (pH units)	6.5-8.0	8.2	8.2	10.3	8.3	7.8	7.9	10	7.6	
EC (μS/cm)	125-2200	600	570	490	590	500	480	520	520	
TSS	NA	48	57	46	72	84	85	180	100	
Ammonia	0.0264	<0.005	<0.005	0.18	<0.005	0.008	0.006	<0.005	0.01	
Nitrate as N	0.44	0.19	0.16	2.1	0.01	0.17	0.13	1.7	0.096	
NO _x as N	0.491	0.3	0.2	3.1	0.02	0.18	0.17	2.5	0.11	
Total N	0.645	1.8	1.6	6.0	1.7	1.1	1.1	3.0	1.0	
Total Phosphorus as P	0.0168	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.2	
Aluminium	0.08	0.07	0.08	0.21	0.09	0.17	0.14	0.15	0.15	
Arsenic	0.094	0.003	0.004	0.009	0.003	0.003	0.004	0.008	0.003	
Cadmium	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	0.02	0.002	0.002	0.03	<0.001	0.003	0.004	0.023	0.002	
Hexavalent Chromium	0.0033	<0.005	<0.005	0.03	<0.005	<0.005	<0.005	0.03	<0.005	
Cobalt	0.015	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	0.02	0.005	0.005	0.01	0.006	0.006	0.013	0.025	0.014	
Lead	0.0056	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	0.001	<0.001	
Nickel	0.013	0.001	0.001	0.002	<0.001	0.001	0.001	0.003	0.002	
Selenium	0.018	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	0.002	
Zinc	0.015	0.007	0.01	<0.001	0.01	0.014	0.023	0.004	0.036	
Boron	0.68	0.34	0.31	0.08	0.36	0.23	0.23	0.08	0.21	
TRH C6-C40	10	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	

All unit in mg/L where otherwise noted.

NA indicates no trigger values applied.

Results shown in **bold** are in excess of the management triggers (Ref [2]) and results with '<' are below the detection limits.



In summary:

- pH was more alkaline than the trigger range at all locations in the first discharge event but only at DIS-SED2 in the second.
- Nitrate and NO_x exceeded their respective trigger values only at DIS-SED2 during both discharge events, while ammonia exceeded its trigger value at this location only during the first discharge event.
- Total nitrogen and total phosphorus were in excess of their respective trigger values at all locations in both discharge events.
- Aluminium was in excess of the trigger value at only DIS-SED2 and SW2 in the first event and at all locations during the second event.
- Chromium and hexavalent chromium exceeded their respective trigger values only at DIS-SED2 in both events.
- Copper was in excess of the trigger value at only DIS-SED2 in the second discharge event.
- Zinc exceeded the trigger value only at background waters SW1 and SW2 in the second discharge event.

5. CONCLUSIONS AND RECOMMENDATIONS

Water monitoring was undertaken at the Concrush Resource Recovery Facility through the April-June 2025 quarter in general compliance with the requirements of the EPL and relevant management plans (Ref [1] and Ref [2]). The absence of samples in June at SW1 due to stagnant water is not considered to represent non-compliance.

The following conclusions have been made with respect to this quarter's monitoring events:

- Elevated concentrations of ammonia and phosphorous were identified in groundwater exceeding their respective ecological guidelines (Ref [2]) at both GW1 and GW3. The guidelines are not directly relevant to groundwater and rather are relevant to the receiving water, considered to be Cockle Creek. The quarter's results are consistent with the historical results, including those prior to the commencement of operations in the southern portion of the site, and the results are not considered to indicate any potential impact from the LP or SED2, and are rather considered to be representative of the groundwater characteristics within former wetlands.
- There are no indications of hydrocarbon contamination in the groundwater. The volatile hydrocarbons detected at GW3 on 30th May 2025is considered likely to be an error during sampling; resampling on 12th June 2025 confirmed the volatile hydrocarbons were not present.
- The pH results at LP and WL were generally neutral, except during the June monitoring round at LP, where the pH was marginally above the upper trigger value.
- Nutrient concentrations at LP and WL exceeded the trigger values in all the sampling rounds; the dominant form of nitrogen was organic nitrogen. It is noted that some vegetation in the WL samples may be impacting the nitrogen results.
- The pH results for both Sediment Dams were more alkaline than the trigger range in all sampling rounds, except for SED2 during the May round. Within the background waters, pH values remained within the trigger range at both locations, except during the April monitoring round, which coincided with the first discharge event.



- Nutrient concentrations at both Sediment Dams exceeded their respective trigger values throughout the quarter except for total phosphorus at SED1 in the May and June monitoring rounds. The available data for the background waters indicated lesser concentrations (except for total phosphorus at SW1 in all monitoring rounds) however the majority were in excess of the trigger values.
- Exceedances of hexavalent chromium trigger value were observed in the Sediment Dams throughout this quarter while chromium was in excess of the trigger value only at SED2 in the April and May rounds; however, these exceedances were not identified in the available background water data. Aluminium exceeded the trigger value in the April and May monitoring rounds at both sediment dams, and one exceedance was identified at SW1 in the April round, which coincided with the first discharge event. In the background waters, zinc exceeded the trigger value only during the May monitoring round. All other metals were either not detected or detected at low concentrations below their respective trigger values.
- Two (2) discharge events occurred during the quarter. Surface water management at the site successfully prevented discharge during other rainfall events. During the two (2) events, pH, nutrients, aluminium, chromium, and hexavalent chromium exceeded their respective trigger values at the spillways. While pH and nutrient levels in the background waters increased slightly during the discharge events, the discharge is not considered to have had a significant impact on the receiving environment due to the limited volume released off-site.

Water monitoring will continue during the next quarter in accordance with the GMP (Ref [1]) and the DVMP (Ref [2]). The next quarterly report will be prepared after the completion of the September 2025 sampling.

Yours faithfully

RCA AUSTRALIA

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Dr. Anh Hoang

Environmental Scientist

B.S. & M.S.(Env Sci); PhD(Enviro. Remediation)

LIMITATIONS

This report has been prepared for Concrush Pty Ltd in accordance with an agreement with RCA Australia (RCA). The services performed by RCA have been conducted in a manner consistent with that generally exercised by members of its profession and consulting practice.

This report has been prepared for the sole use of Concrush Pty Ltd. The report may not contain sufficient information for purposes of other uses or for parties other than Concrush Pty Ltd. This report shall only be presented in full and may not be used to support objectives other than those stated in the report without written permission from RCA Australia.

The information in this report is considered accurate at the date of issue with regard to the current conditions of the site. Conditions can vary across any site that cannot be explicitly defined by investigation. Please contact the undersigned if you have any queries.

Environmental conditions including contaminant concentrations can change in a limited period of time. This should be considered if the report is used following a significant period of time after the date of issue.

REFERENCES

- [1] RCA Australia, Groundwater Management Plan, Expansion of the Concrush Resource Recovery Facility, Teralba, RCA ref 13589-805/1, September 2020.
- [2] ENGENY, Concrush Pty Ltd, Discharge Verification and Mitigation Report, February 2024.
- [3] ANZG, Australian and New Zealand Guidelines for Fresh and Marine Water Quality Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia., August 2018. Available at www.waterquality.gov.au/anz-quidelines.



Appendix A

Field Sheets



CLIENT:	(Concrush Pty Ltd			DATE:	28.4.25		
PROJECT:	١	N/ / O # 14 # 1						
LOCATION		21 Racecourse Road, 7			CLIENT REF:	13589a		
PERSONNE		AMIM		16 N				
WATER MET	WATER METER USED: Horiba							
DATE & TYP	E OF LA	ST CALIBRATION (1PT	OR FULL):	- - - - - - - - - - - - - - - - - - -	ent Drive for Calib	ration Certified		
		ING: Foot valve for Gro						
		TORAGE (TICK):	Chilled					
TESTS REQU	JIRED:	Groundwater: Nutrients Leachate Pond and We Sediment Basins: pH, I Spillways: , EC, TSS, n Background Surface w Refer to Duplicate Regi	s each month, T etland: , EC, TS EC, TSS, metal: netals (dissolve ater: pH, EC, TS	RH, PAH and BTEX every solutions of the second state of the second secon	very 3 months. month. every month. narging. and TRH every mo	Get Key for side gate from weighbridge to get to SW2 onth.		
BORE OR L	OCATIO	N ID: BH3 (Fastern e	nd – adiacent R	acecourse Road) Labe	I bottles 'GW3'			
TIME:	9:50		10:10	acecourse (toau) Labe	i bottles Gws	16		
BORE DEPT		5.10 m		ABOVE GROUND LE	VEL: 0.90	7 10-		
DEPTH TO	AQUIFEI			VOLUME PURGED:		214		
RESULTS O	F WATE	R QUALITY CHECK:						
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C	Solinity (9/)		
11 446	674	1.01/-		9.50	21 (0	Salinity (%)		
21 721	6.71	1./11	900	100	21 00	6,070		
31+21	672	1.61	606	7,05	21.81	0.070		
4/		0.41		1.07	7 9	0,07		
5/								
6/								
Sample App	earance	: Grey	, turki	d woods	TU IV			
Duplicate Ide	entificat	ion and Other Remarks:	, , -) , -				
				Derforman Market and Control of the				
BORE OR LO	OCATIO	Leachate Pond (Eastern end – a	adjacent Racecourse R	oad). Sample at c	outlet to Wetland		
TIME: 10	00	Pond. Label bot						
		TO ning, remove the cord fr	om time and n	divantly into war				
At the comp	letion of	sampling, return the tir	ne to the syste	em.				
RESULTS OF	WATE	R QUALITY CHECK:						
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved Q ₂ (mg/L)	Temperature (°C)	Salinity (%)		
1/	7.3	1.46	80	0.86	1900	0.072		
2/					11.00			
3/								
4/								
5/	5/							
	6/							
Sample Appe			W) Clea	s, no od	ner			
Duplicate Ide	Duplicate Identification and Other Remarks:							



BORE OR	LOCATIO	N ID: Wetland (Easte	rn end – adjace	nt Racecourse Road). I	Label bottles 'WL'	
TIME:	9:30	то 9	241	=		
			, 01			
RESULTS	OF WATE	R QUALITY CHECK:	3		*	
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	6.33	0.784	185	CA	18-37	0030
2/	0	0-10		32.0	-	
3/						
4/						
5/						
6/		0 1				
Sample Ap	pearance	: Pale yellow	· alegy	, floating gra	alana.	er la la de
	•	tion and Other Remarks	1 000	forcing gra	en aggs	Supreme
Bupilouto I		non and other Remarks	•	-		
-						
BORE OR I	OCATIO	NID: Codiment Dem	2 (Courth word o	aman adiasant nailway	\	101
TIME:	10:35		2 (South West Co	orner – adjacent railway). Laber bottles Sed	2
THVIE.	10.03	10	07	-		
RESULTS (OF WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	9.94	0.509 ms/cm	154	4.38	20.00	0.024
2/						
3/						
4/						
5/						
6/				1		
Sample App	pearance	: pale br	evul, no	odow.		
100 0010		ion and Other Remarks				
		ion and other Remarks	•			
Y						
BORE OR L	OCATIO	NID: Discharge of Se	diment 2 Label	bottles 'DIS-Sed2'	West to odd or other productions	
TIME:		TO	ulliletit Z. Label	bottles DIS-Seuz	WATC	H for SNAKES
			y have to get s	ample from outside fe		TIOI SHARLS
		IVIC	y nave to get s	ample from outside le	ince	
DECILITE O	Nº MAZATEI	R QUALITY CHECK:				
						Control No. of the Control of the Co
Check No.	pН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	10,17	0,525	185	452	20.59	0.025
2/	- 1				\	
3/						
4/						
5/						
6/		0 1		100		
Sample App	earance:	Pale ye	low, plea	er no adour		
		on and Other Remarks:		1 1		
	h		EX WES	cha o Illia	-	
	1 00	C P	The state of the s	The state of the s		



BORE OR LOCATION ID: SW2 (Western end, south of site boundary, down ladder). Label bottles 'SW2'									
TIME: 11:43 TO 11:55 WATCH for SNAKES									
	Be careful – poor footing								
RESULTS OF WATER QUALITY CHECK:									
Check No.	3.00	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)			
1/	8.49	0-635	140	3.31	22.19	0.031			
2/									
3/									
4/									
6/									
			10	al south	1				
Sample A	•	- V	brewy,	stoppy	tunbrd, n	o odow			
Duplicate	Identifica	tion and Other Remarks	-	14 011 20					
1	purc	age wen	C . (C)	A 04 CS)					
BORE OR	LOCATIO	NID: BH1 (Western e	end – adiacent R	ailway) Label bottles 'G	W1'				
TIME:	10.2		10:23		~				
BORE DEF	PTH:	4.76	- Aller Alle	ABOVE GROUND LEV	/EL: (a) C1				
DEPTH TO	AQUIFE	R: 0.71		VOLUME PURGED:	8-1				
RESULTS	OF WATE	R QUALITY CHECK:							
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)			
1/	7.67	0.810 walcom		2.33	71.44	O.040			
21 +8	7.60	USE.O	765	1.29	21.50	0.038			
31 48	7.58	0-777	278	0-60	21.81	0.030			
4/					0101				
5/									
6/				0					
Sample Ap	-		grey a	Slophet od	au				
Duplicate I	dentificat	ion and Other Remarks:	: ()	0					
	-			V					
BORE OR I	OCATIO	VID: Codiment Dem 1	/Nontht	V _a · ·					
TIME:	17:10	TO	1 Worth West cor	mer – adjacent railway)	. Label bottles 'Sed	1'			
	100	10	1.40	, ·					
RESULTS O	F WATE	R QUALITY CHECK:							
Check No.	-		T. 1: "						
1/	pΗ 9.85	Conductivity (mS/cm)	Turbidity 427	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)			
2/	1005	0.299	727	1 40	21.00	0.014			
3/									
4/									
5/									
6/									
Sample App	earance:	pale la	your tu	ubid, no odo	Uic				
		on and Other Remarks:	1000	000	vu ,	- 			
	13					3			
		The state of the s							



BORE OR I		Discharge of Co		I bottles 'DIS-Sed1'		
The second secon	12:20	TO	2:30			
BORE DEP			HEIGHT	ABOVE GROUND LE	VEL:	
DEPTH TO			*	VOLUME PURGED:	-	
RESULTS (OF WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	8.33	0.621	112	458	21.43	0030
2/						
3/						
4/						
5/						
6/					1	
Sample App	pearance	: Grey,	Shalthy	Jurniel , no	edour)X
Duplicate lo	dentificati	ion and Other Remarks	1.9			
BORE OR L	OCATION	N ID: SW1 (Western s	ide of Racecou	rse Road, north of rail a	ccess drive). Label	bottles 'SW'
TIME:	12:56	то 13	:09			
BORE DEP	тн:		HEIGHT	ABOVE GROUND LEV	/EL:	
DEPTH TO	AQUIFER	! :	_	VOLUME PURGED:		
RESULTS C	F WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	931	0-609	116	5.10	20.72	0.029
2/						
3/						
4/						
5/						
6/						
Sample App	earance:	pale lare	wn, hi	ulid ne o	dein	
Duplicate Id	lentificati	on and Other Remarks:		7		



CLIENT: PROJECT: LOCATION PERSONNE	: 2	Concrush Pty Ltd Water Quality Monitorin 21 Racecourse Road, 1	-	F	PROJECT No: CLIENT REF:	13589a		
WATER MET DATE & TYP METHOD OF PRESERVAT TESTS REQU	WATER METER USED: Horiba DATE & TYPE OF LAST CALIBRATION (1PT OR FULL): Full – refer to Environment Drive for Calibration Certified METHOD OF SAMPLING: Foot valve for Groundwater, direct for Ponds, Wetland, Basins and Surface Water PRESERVATION & STORAGE (TICK): Chilled (<4°C) Groundwater: Nutrients each month, TRH, PAH and BTEX every 3 months. Leachate Pond and Wetland: , EC, TSS and Nutrients every month. Sediment Basins: pH, EC, TSS, metals (dissolved) and TRH every month. Spillways: , EC, TSS, metals (dissolved) and TRH when discharging. Background Surface water: pH, EC, TSS, metals (dissolved) and TRH every month. DTHER DETAILS: Refer to Duplicate Register – name duplicate QAMonthYear.							
TIME: BORE DEP DEPTH TO	BORE OR LOCATION ID: BH3 (Eastern end – adjacent Racecourse Road) Label bottles 'GW3' TIME: TO BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK:							
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O2 (mg/L)	Temperature (°C) Salinity (%)		
1/	<u> </u>		,	Jissoires of (iiig/2)	Temperature (o	Cannity (70)		
2/								
3/								
4/								
5/								
6/								
Sample App	earance	. /						
		ion and Other Remarks				9		
		Leachate Dond (Eastern and a	djacent Racecourse Ro	and) Commission			
At the comp	not runi letion ot	Pond. Label both TO ning, remove the cord fr sampling, return the tire R QUALITY CHECK:	tles 'LP' om time and pu	ut directiv into power.		30		
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved Oz (mg/L)	Temperature (°C)	Salinity (%)		
1/			-			(10)		
2/								
3/								
4/								
5/								
6/								
Sample App	earance:							
		on and Other Remarks:						



BORE OR I	OCATIO	12 N 120 120 120 120 120 120 120 120 120 120	rn end – adjace	nt Racecourse Road).	Label bottles 'WL'	
TIME:		то		-		
RESULTS (DE WATE	R QUALITY CHECK:				
	_					
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/			-			
2/	-					
3/	-					
5/						
6/	-					
Sample App						
Duplicate Id	dentificat	ion and Other Remarks	:			
_/					·	

BORE OR L	OCATIO	N ID: Sodiment Dam (2 (Couth west a	owner odiocant relivies	·	101
TIME:	.OUATIO	TO	2 (South west co	orner – adjacent railway). Label bottles Sec	12
TIME		10		-		
DECLII TO C	E MATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O2 (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						
Sample App						
Duplicate Id	lentificati	ion and Other Remarks:	:			
/						
PORE OR I	OCATIO	UID. Di i				
BORE OR L				bottles 'DIS-Sed2'	1444 == 0	
TIME:	11:50		-:10			H for SNAKES
		Ma	y have to get s	ample from outside fe	ence	
DE0!!! =0 0						
RESULTS O	F WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	9,91	0.502	496	4,79	16.75	0.024
2/	, .	4				1
3/						
4/						17
5/						
6/						
Sample App	earance:	Gray,	hurfiel	, no odour		
Duplicate Id	entificati	on and Other Remarks:		/		
					<i>5.</i>	



RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbigity Dissolved Q, (mg/L) Temperature (°C) Salinity (%) 11 7,77 0 5 7 0 1 1 0 5 7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BORE OR			end, south of sit	te boundary, down ladd		
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbigity Dissolved Q2 (mg/L) Temperature (*C) Salinity (%) 11 7,77 0, \$\frac{1}{2}\$ 1	TIME:	ادكا	TO [2:30			
Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q, (mg/L) Temperature (°C) Salinity (%) 11						Be careful -	- poor footing
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESULTS	OF WATE	ER QUALITY CHECK:				
11 7.77 0.57 0 186 3,39 16, 122 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Check No.	pН	Conductivity (mS/cm)	Turbiglity	Dissolved O₂ (mg/L)	Temperature (°C)	Salinity (%)
27 37 41 57 58 66 67 Sample Appearance:	1/	7.77	0.570	186	3,39		
### Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID:	2/	1111				502)	U, U
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: TO BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature ("C) Salinity (%) 10 Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature ("C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature ("C) Salinity (%) Why the sample Appearance: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₃ (mg/L) Temperature ("C) Salinity (%) Why the sample Appearance:	3/						
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: TO HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_4mg/L) Temperature (*C) Salinity (%) 1/2 3/3 4/4 5/5/5/5 BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_4mg/L) Temperature (*C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_4mg/L) Temperature (*C) Salinity (%) W Dissolved Q_4mg/L) Temperature (*C) Salinity (%) Results OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_4mg/L) Temperature (*C) Salinity (%) W Dissolved Q_4mg/L) Temperature (*C) Salinity (%) W Dissolved Q_4mg/L) Temperature (*C) Salinity (%) Bample Appearance:	4/						
Sample Appearance:	5/						
Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME:	6/		, , ,			,	
Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME:	Sample Ap	pearance	: Laht m	own, Tu	March . In	druc	
BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: TO BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4mg/L) Temperature (°C) Salinity (%) 11 21 33 44 55 66 85 Sample Appearance: Duplicate Identification and Other Remarks: Duplicate Identification and Other Remarks: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4mg/L) Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4mg/L) Temperature (°C) Salinity (%) 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19		-	-00	1 01	and the	1000	
TIME: TO HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ 6/ Sample Appearance: Duplicate Idept#fication and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK:	z apiroato i		aon ana other Remarks	•			
TIME: TO HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ 6/ Sample Appearance: Duplicate Idept#fication and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK:	-						
TIME: TO HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ 6/ Sample Appearance: Duplicate Idept#fication and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q_{mg/L} Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK:							
TIME: TO BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4(mg/L) Temperature (°C) Salinity (%) 1/ 2/ 3/3 4/ 4/ 5/ 6/ 6/ BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4(mg/L) Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O_4(mg/L) Temperature (°C) Salinity (%) RESULTS OF WATER QUALITY CHECK:	BORE OR I	LOCATIO	N ID: BH1 (Western e	nd – adiacent R	Railway) Label bottles 'G	SW1'	
BORE DEPTH: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (m@/L) Temperature (°C) Salinity (%) 2/2 3/3/4/4 Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (m@/L) Temperature (°C) Salinity (%) A Conductivity (mS/cm) Turbidity Dissolved O ₂ (m@/L) Temperature (°C) Salinity (%) BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (m@/L) Temperature (°C) Salinity (%) A Conductivity (mS/cm) Turbidity Dissolved O ₂ (m@/L) Temperature (°C) Salinity (%) Bornple Appearance:	TIME:			,	,,		
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11/ 22/ 33/ 44/ 55/ 66/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O₂ (mg/L) Temperature (°C) Salinity (%) 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10				7. 1.11	T 5: 1 10 / / 15	<u> </u>	
2/2/ 3/3/ 4/4/ 5/5/ 6/6/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O (mg/L) Temperature (°C) Salinity (%) 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/		рн	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)							
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Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)							
Gample Appearance:	RESULTS C	F WATE	R QUALITY CHECK:			/	
Gample Appearance:	Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O2 (mg/L)	Temperature (°C)	Salinity (%)
Sample Appearance:	1/					, ,	-,,,
Sample Appearance:	2/			_			
Gample Appearance:	3/						
Sample Appearance:	4/						
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	6/						
	Sample App	earance:					
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BORE DEPTH: DEPTH TO AQUIFER: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 11 7.38 0.493 1.79 4.70 16.40 0.024 3/ 4/ 5/ 6/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12.45 TO 12.60 DEPTH: DEPTH TO AQUIFER: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.493 2.60 DEPTH: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%)	BORE OR I		Diodrial go of oo	diment 1. Label	bottles 'DIS-Sed1'		
DEPTH TO AQUIFER: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 7.39 0.49.3 199 4.70 16.90 0.02.4 2/ 3/ 4/ 5/ 6/ Sample Appearance: Pale Jellow Staylor of North of rail access drive). Label bottles 'SW' TIME: 12.45 TO 12.60 BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12.45 TO 12.60 BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 7.49 0.49 3 3/ 4/ 5/ 6/ Sample Appearance: Pale Use Day Water What Water Advanced Conductivity (mS/cm) Turbidity Dissolved Q ₃ (mg/L) Temperature (°C) Salinity (%) 5/ 6/ 6/ 5/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/		11,5	10			1 900000	
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3/ 4/ 5/ 6/ Sample Appearance: Pale yellow, Stightly Turbid, no edour Duplicate Identification and Other Remarks: BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12:45 BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q (mg/L) Temperature (°C) Salinity (%) 1/ 1/ 1/ 3/ 4/ 5/ 6/ Sample Appearance: Vale yellow Water Market Water Wat	1/	7.38	0.498	189	4,76	16.96	0.024
Sample Appearance: Pale Jellow, Stightly Turbid, wo about Duplicate Identification and Other Remarks: BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12.45 TO 12.60 BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1	2/					ı	,
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BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12.45 TO 13.60 BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1	6/		0 0 01	1		,	
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BORE OR LOCATION ID: SW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'SW' TIME: 12.45 TO 12.60 BORE DEPTH: HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1	Duplicate lo	dentificati			Jary France	1 100 000	0017
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TIME: 12:45 TO 13:50 HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.89 0.493 2 5 5 6 9 0.024 2/ 3/ 4/ 5/ 6/ Sample Appearance: 12.4 4.4 5/ 6/ 6/ Sample Appearance: 12.4 4.4 5/ 6/ 6/ Sample Appearance: 12.4 4.4 5/ 6/ 6/ 5/ 6							
TIME: 12:45 TO 13:50 HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.89 0.493 2 5 5 6 9 0.024 2/ 3/ 4/ 5/ 6/ Sample Appearance: 12.4 4.4 5/ 6/ 5/ 6/ 5/ 6/ 5/ 6/ 5/ 6/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 6/ 5/ 5/ 5/ 6/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/							
TIME: 12:45 TO 13:00 HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) 1/ 7.89 0.493 20 3,68 0.59 0.024 2/ 3/ 4/ 5/ 6/ Sample Appearance: 1/24 1/24 1/24 1/24 1/24 1/24 1/24 1/24	BORE OR I	OCATIO	N ID: CM/4 /Mostors	ide of December	D J		
BORE DEPTH: DEPTH TO AQUIFER: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q2 (mg/L) Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ Sample Appearance:			0111 (1100101110		rse Road, north of rail a	ccess drive). Labei i	ootties 'Svv'
DEPTH TO AQUIFER: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ Sample Appearance:			10 13		A DOVE COOLING LEV	/F1 -	
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved Q ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 7,89 0,49 2 3 ,68 6,59 0,024 2/ 3/ 4/ 5/ 6/ Sample Appearance: Sample Appearance: Vale yellow) Slightly White I we above			1.	HEIGHT		/EL:	
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1/ 7,89 0,49 2 20 3,68 16,59 0,024 3/ 4/ 5/ 6/ Sample Appearance: Vale yellow Starting twhich, we about	RESULTS	P WATE	R QUALITY CHECK:				
21 31 41 51 61 Sample Appearance: Vale yellow Starting Twind, in adorr	Check No.	pН	Conductivity (mS/cm)	Turbidity	Dissolved O2 (mg/L)	Temperature (°C)	Salinity (%)
3/ 4/ 5/ 6/ Sample Appearance: Vale yellow Statisty which I we adown	1/	7.89	0,492	205	3,68	16,59	002/1
Sample Appearance: Vale yellow Slightly Whid, he adown	2/	1,01			•	10-3	Vien
Sample Appearance: Vale yellow Stiffety higher I ho ador	3/						
Sample Appearance: Dale Hellow Starting twind, in adour	4/						
Sample Appearance: Vale yellow shows which which I he adown	5/						
Talk Melling & added 1000 to the contraction	6/			L	1 1	Ø)	
Talk Melling & added 1000 to the contraction	Sample Apr	earance:	1200 10011	WY CANA	Art. nyhad	1 400 01.00	~
Suprious racinimous and other Repairs.				ow)	100	1 000 00000	
	- apricato la	- iniioan	on and other Regialks.		<u> </u>		



CLIENT:	(Concrush Pty Ltd			DATE:	0.5.27		
PROJECT:	V	Vater Quality Monitoring	g	F	ROJECT No:	13589a		
LOCATION:	2	1 Racecourse Road, T	eralba	C	LIENT REF:			
PERSONNE	L:	MH						
WATER METE	ER USE	D: Horiba						
DATE & TYPE	OF LA	ST CALIBRATION (1PT	OR FULL): Fu	ull – refer to Environme	ent Drive for Calibrat	ion Certified		
		NG: Foot valve for Gro						
		TORAGE (TICK):	Chilled (et Key for side		
		Groundwater: Nutrients	and the second		U-85 ASI 85	te from		
		Leachate Pond and We			nonth. we	eighbridge to		
TESTS REQU	IRED:	Sediment Basins: pH, E Spillways: , EC, TSS, m				t to SW2		
		Background Surface wa				h.		
OTHER DETA	ILS:	Refer to Duplicate Regis	ster – name du _l	plicate QAMonthYear	•			
		event was produced as the second state of the						
BORE OR LO	-		- //	cecourse Road) Label	bottles 'GW3'			
- T	30	TO //	03/h					
BORE DEPT	_	5.06/11	HEIGHT	ABOVE GROUND LEV				
DEPTH TO A		R QUALITY CHECK:		VOLUME PURGED:	-46			
					T_			
Check No.	pH 7, 37	Conductivity (mS/cm)	Turbidity 80.3	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)		
2/	73/	1.39	00.3	1, 0,7	20.54	0.067		
3/	7.0E	1.42	75.0	6.54	20 70	0.073		
4/	2.00	1.43	105	L.05	20.72	0:072		
5/	/	1.43	103	77)	2.04	00/2		
6/				£		_		
Sample App	earance	: close to 7	144d	Pale Grow	41 100 0	Acres.		
Duplicate Ide	entificat	ion and Other Remarks:						
		Leachate Pond (Eastern and – a	djacent Racecourse Ro	pad) Sample at out	let to Wetland		
BORE OR LO		Pond. Label bott		ajacent raccourse no	dan bampie at our	ict to wetland		
TIME: //	.09	Ar TO 11:1	/	104				
If discharge	not runi	ning, remove the cord fr				A Section		
		^r sampling, return the tin R QUALITY CHECK:	ne to the syster	m.	in a			
		-	+ 1.1% T	D: 1 10 (// //)	T (00)			
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O₂ (mg/L)	Temperature (°C)	Salinity (%)		
2/	7.65	1./4	35.1	1.76	17.20	0.007		
3/								
4/		-						
5/				i X				
6/								
Sample Appe	earance	Tulkid	dar 6	Own) n	a der	2		
	Duplicate Identification and Other Remarks:							



BORE OR TIME:	LOCATIO	A	ern end – adjace	ent Racecourse Road).	Label bottles 'WL'	
	OF WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	6.71	1.94	5370	0.35	17.62	0.099
2/						
3/						
4/						
5/	1					
6/						
Sample Ap Duplicate I	-	tion and Other Remarks	5: 5:	n) po odo	7.	
				AND THE PERSON OF THE PERSON O		
'	2:41			orner – adjacent railway –	,,. Labor bottles Ger	
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	5.75	0.540	96.8	3.03	17.99	0.026
2/						
3/						
4/		4				
5/						
6/						
Sample App						
Duplicate Id	dentificati	on and Other Remarks	•			
				THE RESIDENCE OF A VISIA WAS A		
BORE OR L	OCATION	N ID: Discharge of Sec	diment 2. Label	bottles 'DIS-Sed2'	WATC	H for SNAKES
		Ma	y have to get s	sample from outside fe		
RESULTS O	F WATER	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/			/		, , , ,	, (,
2/						
3/						
4/			/			
5/						
6/						
Sample App	earance:					
Duplicate Id	entificatio	on and Other Remarks:				



RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved 0, (mg/L) Temperature (°C) Salinity (%) 1/ 2 2 2 2 4 2 0 0 4 2 6 1/12 2 2 2 4 3 0 0 4 6 6 3/ 4/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/	BORE OR TIME:	LOCATIO /149	SW2 (Western TO	end, south of si	ite boundary, down ladd –	WATO	W2' CH for SNAKES - poor footing
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/	RESULTS	OF WATE	R QUALITY CHECK:				poor rooming
1/ S.43 0.426				Turbidity	Dissolved O. (mg/L)	Temperature (°C)	Salinity (9/)
2/ 3/ 4/ 4/ 5/ 6/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: /2 * 8	5-54						
### Appearance: #### Appearance: ####################################	2/		, , , ,	1, 2		2045	0076
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: /2 • 8 TO BORE DEPTH: 4.75 M HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: /.5 /m VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved 02 (mg/L) Temperature (°C) Salinity (%) 11 5.15 0.44 3.28 3.24 2.65 0.02/ 21 5.60 0.44 7 6.22 /.7.2 20.65 0.02/ 33 3.4 5.6 6.4 6.4 6.5 7 /.3 / 20.6 6.4 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6	3/						
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: / 2	4/						
Sample Appearance:	5/						
BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: /2 • 8	6/			07			
BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1' TIME: /2 * 8 TO BORE DEPTH:	Sample Ap	pearance	: Tubyol	1 200	6 brau n	in ado	40
TIME: / 2 * 8 * TO BORE DEPTH: 4 * 75 ** HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: / 5 * M VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5 * 6 * 6 * 4 * 7 * 6 * 2 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 7 * 7 * 2 * 7 * 7 * 7 * 7	Duplicate I	dentificat	ion and Other Remarks			7.4.00	
TIME: / 2 * 8 * TO BORE DEPTH: 4 * 75 ** HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: / 5 * M VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5 * 6 * 6 * 4 * 7 * 6 * 2 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 7 * 7 * 2 * 7 * 7 * 7 * 7							
TIME: / 2 * 8 * TO BORE DEPTH: 4 * 75 ** HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: / 5 * M VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5 * 6 * 6 * 4 * 7 * 6 * 2 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 7 * 7 * 2 * 7 * 7 * 7 * 2 * 7 * 7							
TIME: / 2 * 8 * TO BORE DEPTH: 4 * 75 ** HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: / 5 * M VOLUME PURGED: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5 * 6 * 6 * 4 * 7 * 6 * 2 * 7 * 7 * 2 * 2 * 6 * 6 * 7 * 7 * 2 * 7 * 7 * 2 * 7 * 7 * 7 * 7	DODE OD		N. I.				
BORE DEPTH: 4.75 HEIGHT ABOVE GROUND LEVEL: DEPTH TO AQUIFER: /-5 /m VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 2/ 5.66 6.446 637 /-7.2 20.65 0.02/ 3/ 5.66 6.446 637 /-7.2 20.65 0.02/ 3/ 5/ 6/ 5/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/				nd – adjacent F	Railway) Label bottles 'G	SW1'	
DEPTH TO AQUIFER: /- Sym VOLUME PURGED: RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ S - 1/5 O - 4/4 O - 3/2 O - 5/5 O - 2/2 O - 2/2 O - 5/5 O - 2/2 O						×	
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5./5 0.444 3.26 3.24 2.65 0.02/ 3/ 5.66 0.447 6.22 /.7.2 2.65 0.02/ 3/ 5.66 6.46 6.46 6.47 6.22 /.7.2 2.65 0.02/ 5/ 6/ 5.41 5.66 6.47 6.22 6.24 6.24 6.24 6.24 6.24 6.24 6.24				HEIGHT			
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11 5.75 0.444 3.28 3.24 2.26 0.22 3.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0					VOLUME PURGED:	_50	
Sample Appearance: Check No. pH Conductivity (mS/cm) Check No. pH Conductivity (mS/c					77.	y	
2/ 5.60 0.447 6637 7.72 20.65 0.24/ 3/ 4/ 5/ 6 6.446 837 7.3/ 20.6/ 0.02/ 5/ 6/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: / / / / / / / / / / / / / / / / / / /	E-7	-					Salinity (%)
3/ 4/ 5/ 6/ Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: // / / / / / / / / / / / / / / / / /		1		3281	3.24		
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: // / / / / / / / / / / / / / / / / /	100000		0.44	6/2	1.72	20.65	
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: // / / / / / / / / / / / / / / / / /		5.66	6.446	63/	1:31	20.6/	0.021
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: TO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5-6/ 0-2-93 /2/ 4-37 /8-4/6 Sample Appearance: Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)							
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) 1/2/4/37 /8-4/6 Sample Appearance: [Wysel, Page Space No Amiles	177			***************************************			
BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: /, / p f							
BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1' TIME: /, / p f			- 100	1 104	e prouve)	100 cdo2	4
TIME: // / / / / / / / / / / / / / / / / /	Duplicate it	aentificati	on and Other Remarks:	,			
TIME: // / / / / / / / / / / / / / / / / /							
TIME: // / / / / / / / / / / / / / / / / /							
TIME: // / / / TO	BORE OR L	OCATION	VID: Sediment Dam 1	(North west co	rner – adjacent rajlway)	Label bottles 'Sad1	1
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5·6/ 0·293 /2/ 4/ 37 /8·4/6 0·4/4 Sample Appearance: Langed, Parks No. 2014			a coaminone bann i	(NOITH WEST CO	mer – adjacem ranway)	. Laber bottles Seu i	
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5-6/ 0-293 /2/ 4-37 /8-46 0-6-14 Sample Appearance: [Lysself], Pole Spans by American	1	,,-,					
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5-6/ 0-293 /2/ 4-37 /8-46 0-6-14 Sample Appearance: [unydd], Pole Spans by American							
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 5-6/ 0-293 /2/ 4-37 /8-46 0-6-14 Sample Appearance: [unydd], Pole Spans by American	RESULTS C	F WATER	R QUALITY CHECK:				
11/ 5-6/ 0-293 /2/ 4-37 /8-48 0-4/4 21/ 33/ 34/ 35/ 35/ 35/ 35/ 35/ 35/ 35/ 35/ 35/ 35	Check No.	На	Conductivity (mS/cm)	Turbidity	Dissolved O. (mg/l)	Temperature (°C)	Salinity (9/)
Sample Appearance: Length, Pole Span by Anna	1/		1 1 0				
Sample Appearance: Length, Pole Grand he Anno.	2/	3 4	UZP	121	9.37	18 70	5 474
Sample Appearance: Length, Pole Grand he Anno.	3/						
Sample Appearance: [wysd, Pole Gran hu Ann.	4/						
Sample Appearance: Lengel, Pole Gran he days	5/						7
	6/			38		_	
	Sample App	earance:	Turked.	Dolo a	Smar hu	-day	
	251 15		on and Other Remarks:		310000	-ciovs.	STOREST CONTRACTOR OF THE STOREST CONTRACTOR



BORE OR L	OCATIO	N ID: Discharge of Se	diment 1. Label	bottles 'DIS-Sed1'		
TIME:		TO		• -		
BORE DEPT	Ή:	Color Can Care Color Color	HEIGHT	ABOVE GROUND LE	VEL:	
DEPTH TO	QUIFER	R:		VOLUME PURGED:		
RESULTS O	F WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/			/			
4/						
5/		/				
6/						
BORE DEPT	H: AQUIFER	№ то 2.	26 h	rse Road, north of rail a ABOVE GROUND LEV VOLUME PURGED:		oottles 'SW'
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	6.62	0 .99%	202	2.51	19:17	0.049
2/	0	0 190	-	4.91		
3/						
4/						
5/						
6/			, _			
Sample App	oaranco	: clish(d	1 hadila	de soile b	marke is	alua.
		ion and Other Remarks:		- your		OW



CLIENT:		Concrush Pty Ltd			DATE:	3016125			
PROJECT:	8	Water Quality Monitori	ng		PROJECT No:	13589a			
LOCATION		21 Racecourse Road,	1 -1 0		CLIENT REF:	13309a			
PERSONN		, iouu,	Toraiba	}	CLIENT KEF:				
WATER MEDATE & TYPE METHOD OF PRESERVATESTS REQUITED TO THE DETERMENT OF THE PRESERVATE OTHER DETERMENT OF THE PRESERVATE OTHER DETERMENT OF THE PRESERVATE	WATER METER USED: Horiba DATE & TYPE OF LAST CALIBRATION (1PT OR FULL): Full – refer to Environment Drive for Calibration Certified METHOD OF SAMPLING: Foot valve for Groundwater, direct for Ponds, Wetland, Basins and Surface Water PRESERVATION & STORAGE (TICK): Chilled (<4°C) Groundwater: Nutrients each month, TRH, PAH and BTEX every 3 months. Leachate Pond and Wetland: , EC, TSS and Nutrients every month. Sediment Basins: pH, EC, TSS, metals (dissolved) and TRH every month. Spillways: , EC, TSS, metals (dissolved) and TRH when discharging. Background Surface water: pH, EC, TSS, metals (dissolved) and TRH every month. DTHER DETAILS: Refer to Duplicate Register – name duplicate QAMonthYear. BORE OR LOCATION ID: BH3 (Eastern end – adjacent Racecourse Road) Label bottles 'GW3'								
BORE DEP	TH:	5,09		ABOVE GROUND LE	VEL: 0.83	2,			
DEPTH TO		_ // ()		VOLUME PURGED:	11				
RESULTS (OF WATE	R QUALITY CHECK:		TO TO THE TOTAL D.	46				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)			
11+26	523	1,70	461	120	17,66	a 085			
21 21	536	170	651	123	18,61	0,086			
3/ +11	550	1:68	486	C. 38	17.95	0.085			
4/				3 70	(-1)	0,003			
5/ 6/									
Sample App									
		ion and Other Remarks		no odour					
BORE OR LOCATION ID: Leachate Pond (Eastern end – adjacent Racecourse Road). Sample at cutlet to Wetland TIME: TO TO TO TO TO TO TO TO TO T									
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O₂ (mg/L)	Townson (00)				
1/	7.86	2141	103	2188	Temperature (°C)	Salinity (%)			
2/				2.08	1010)	01120			
3/									
4/									
5/					15%				
6/									
Sample Appe			Vr. 5115	shtis turbia	t with ling	Ans 5/500			
Duplicate Identification and Other Remarks:									



Sample Appearance: Williams, with Joshug agas, no down BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: 10.55 TO 11.50 RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Sallinity (%) 11 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	BORE OR I		N ID: Wetland (Easter	rn end – adjace	nt Racecourse Road).	Label bottles 'WL'	
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (°S) 11	TIME:	958	ТО				
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11	-				-		
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11							
11	RESULTS (OF WATE	R QUALITY CHECK:				
11	Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
21 33 44 55 66 Sample Appearance:						All and a second a	
Sample Appearance: BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: Check No. PH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) To Watch for SNAKES BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. PH Conductivity (mS/cm) May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. PH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES WATCH for SNAKES Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)		-7-(1	2001	13,5	2.69	11/6	0.137
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: TO TO TUPLO RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11 11 15 Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- WATCH for SNAKES- WATCH for SNAKES- WATCH for SNAKES- WATCH SNAKES- WATCH FOR SNAKES- WATCH SNAKES- WATCH SNAKES- WATCH SNAKES- WATCH FOR SNAKES- WATCH SNAKES- WATCH SNAKES- WATCH SNAKES- WATCH FOR SNAKES- WATCH							
Sample Appearance: Markey Watch Conductivity (ms/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)							
Sample Appearance:	220		N				
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: 10 1 10 1 10 10 10 10 10 10 10 10 10 10	6/		Mellow				
BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: COLOR TIME: COLOR TIME: TO TO TURBING T	***************************************	nearance		11 - 1000	1 10	4-4-6	
BORE OR LOCATION ID: Sediment Dam 2 (South west corner – adjacent railway). Label bottles 'Sed2' TIME: 10 1 10 10 10 10 10 10 10 10 10 10 10 1		•			algae, no	OCOCY	
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11	Duplicate it	uentincat	ion and Other Remarks	•	-		
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11							
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11							
RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11	BORE OR I	OCATIO	N ID: Cadinaant Dans (2 /0		\	101
RESULTS OF WATER QUALITY CHECK: Check No. pH			Codimont Dam 2		orner – adjacent railway). Label bottles 'Sec	12'
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11	THVIE: U	0255	10	:00	· -		
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11							
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 11							
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO Water QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Water Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) Sample Appearance:	RESULTS C	OF WATE	R QUALITY CHECK:				
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- May have to get sample from outside fence	Check No.	pН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)		Salinity (%)
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WATCH for SNAKES- May have to get sample from outside fence	1/	7,58	0,548	74.1	7,8	13,85	0.026
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WE Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) WE Conductivity (mS/cm) Turbidity Dissolved O ₃ (mg/L) Temperature (°C) Salinity (%) WE CONDUCTED TO THE CONDUCTE	2/					9 3	
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO Way have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 10 11 12 13 14 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	3/						*1
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) Discharge of Sediment 2. Label bottles 'DIS-Sed2' May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) Discharge of Sediment 2. Label bottles 'DIS-Sed2' To May have to get sample from outside fence	4/						
Sample Appearance: Duplicate Identification and Other Remarks: BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) If Sample Appearance:	5/						
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO	6/		Λ Λ	á			
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO	Sample App	pearance	: Pale uv	eyn Clas	littly durbid	, no otou	
BORE OR LOCATION ID: Discharge of Sediment 2. Label bottles 'DIS-Sed2' TIME: TO WATCH for SNAKES May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O2 (mg/L) Temperature (°C) Salinity (%) If the period of the period	Duplicate lo	dentificati		1	J 10 · met	7700000	
May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/	To assess that a second and the first in the second and the second						
TIME: TO WATCH for SNAKES							
May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/				***************************************			
May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) III III Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) III Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) III Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) III Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) III Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)	BORE OR L	OCATIO	NID: Discharge of Sec	diment 2. Label	bottles 'DIS-Sed2'ı		
May have to get sample from outside fence RESULTS OF WATER QUALITY CHECK: Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) I/	TIME:					COO WATC	H for SNAKES
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%) 1/ 2/ 3/ 4/ 5/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/	7			v have to get s			
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)			ill.	, nare to got o	ampio mom outorao re		
Check No. pH Conductivity (mS/cm) Turbidity Dissolved O ₂ (mg/L) Temperature (°C) Salinity (%)	RESULTS O	E WATE	S OLIALITY CHECK.				
All Del Del Del Del Del Del Del Del Del D				T 1.11	n: 1 10 / //		
2/ 3/ 3/ 4/ 5/ Sample Appearance:	100	рн	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
B/W/B/W/B/W/B/W/B/W/B/W/B/W/B/W/B/W/B/W							
Sample Appearance:							
Sample Appearance:				/			
Sample Appearance:							
Sample Appearance:	5/						A
	6/						
Ouplicate Identification and Other Remarks:	Sample App	earance:	/				
11 THE PROPERTY OF THE PROPERT	Duplicate Id	entificati	on and Other Remarks:				



BORE OR I			end, south of site	e boundary, down ladde		W2' CH for SNAKES
Tivie.	1110	10 1	17)21			– poor footing
					MG Was we we	- poor rooms
RESULTS (OF WATE	ER QUALITY CHECK:	*		E.	
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	6,08	1,14	29	3,17	14 16	0,0,56
2/		, , , ,			/ / / /	
3/						
4/				L		
5/						9
6/						
Sample Ap						
Duplicate I	dentificat	tion and Other Remarks				
	14 (3625 collect	-ed			
BORE OR I	OCATIO	ALID. DUI (Mostern c	adjacent D	ailway) Label bottles 'G	214141	
	10,55			allway) Label bottles G	VV1*	
BORE DEP		1. 0	1124 HEIGHT	ABOVE GROUND LE\	MEL. NIG	
DEPTH TO		4,16 2,16 M	_ neigni	VOLUME PURGED:	VEL: №4	
	9-0/AT 1.00 0391301 - 9040101	R QUALITY CHECK:		VULUWE PURGED.		
			T		T = ((00)	T
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	5.80	1,12	671000	1/39	16,38	0,055
2/	588	1,12	21000	2102	16.57	0.656
4/	500	1113		1.67	17101	0.056
5/						
6/	+	ļ'	 			-
	Tarance	sach h	11 - hid	A		<u> </u>
Sample App		tion and Other Remarks	vus tra	V		
Dupiloate it	Jenuncau	On and Other Nemarks	â	1		
BORE OR L	OCATIO	N ID: Sediment Dam	1 (North west cor	rner – adjacent railway)) I abel bottles 'Sed	11'
TIME:	12,00		2: W		C The transfer of the second second	
	-					
RESULTS C	OF WATE	R QUALITY CHECK:				
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	7,44	0.353	71.3	6,29	13.77	0.017
2/	111		-		17,11	, ,
3/						E.
4/						
5/						
6/			,	A		
Sample App	pearance:	: grey	turbid.	no odour		
		ion and Other Remarks:		V W		
				<u> </u>		



BORE OR L	OCATIO	Bloomarge of Oc	diment 1. Label	bottles 'DIS-Sed1'	1 - 1	
TIME:		TO		No	discharge	
BORE DEP	Part Annual Control		HEIGHT	ABOVE GROUND LE	VEL:	
DEPTH TO				VOLUME PURGED:		
RESULTS C	OF WATE	ER QUALITY CHECK:	ti)			
Check No.	рН	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						
Sample App	earance	n:	***************************************	***************************************	<u> </u>	
		tion and Other Remarks	•		¥	
				-		**************************************
BORE OR L	OCATIO	N ID: SW1 (Western s	ide of Racecour	rse Road, north of rail a	ccess drive) I abel h	ottles 'SW'
TIME:		TO		Stagnart	water - n	N Sand
BORE DEPT	ГН:		HEIGHT	ABOVE GROUND LEV		
DEPTH TO	AQUIFER	₹:		VOLUME PURGED:		
RESULTS O	F WATE	R QUALITY CHECK:	· · · · · · · · · · · · · · · · · · ·			
Check No.	Нq	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	P.I.	Conductivity (morom)	Tarbialty	Dissolved O2 (IIIg/L)	remperature (C)	Samily (70)
2/						
3/						
4/						
5/						
6/				5		
Sample App	earance	:/				
Duplicate Id	entificat	ion and Other Remarks:				

Appendix B

Laboratory Report Sheets



Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 379078

Client Details	
Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details	
Your Reference	<u>13589a</u>
Number of Samples	11 Water
Date samples received	28/04/2025
Date completed instructions received	29/04/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details				
Date results requested by	06/05/2025			
Date of Issue	06/05/2025			
NATA Accreditation Number 2901. This document shall not be reproduced except in full.				
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *				

Results Approved By

Giovanni Agosti, Group Technical Manager Laura Schofield, Lab Manager Nick Sarlamis, Assistant Operation Manager Timothy Toll, Senior Chemist Authorised By

Nancy Zhang, Laboratory Manager





vTRH(C6-C10)/BTEXN in Water						
Our Reference		379078-5	379078-6	379078-7	379078-8	379078-9
Your Reference	UNITS	Sed-2	SW2	Sed-1	SW1	QA0425
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Date analysed	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
TRH C ₆ - C ₉	μg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	μg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10	<10	<10	<10	<10
Benzene	μg/L	<1	<1	<1	<1	<1
Toluene	μg/L	<1	<1	<1	<1	<1
Ethylbenzene	μg/L	<1	<1	<1	<1	<1
m+p-xylene	μg/L	<2	<2	<2	<2	<2
o-xylene	μg/L	<1	<1	<1	<1	<1
Naphthalene	μg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	106	106	107	107	105
Surrogate Toluene-d8	%	98	98	98	98	97
Surrogate 4-Bromofluorobenzene	%	95	92	94	95	92

vTRH(C6-C10)/BTEXN in Water			
Our Reference		379078-10	379078-11
Your Reference	UNITS	Dis-Sed1	Dis-Sed2
Date Sampled		28/04/2025	28/04/2025
Type of sample		Water	Water
Date extracted	-	29/04/2025	29/04/2025
Date analysed	-	30/04/2025	30/04/2025
TRH C ₆ - C ₉	μg/L	<10	<10
TRH C ₆ - C ₁₀	μg/L	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10	<10
Benzene	μg/L	<1	<1
Toluene	μg/L	<1	<1
Ethylbenzene	μg/L	<1	<1
m+p-xylene	μg/L	<2	<2
o-xylene	μg/L	<1	<1
Naphthalene	μg/L	<1	<1
Surrogate Dibromofluoromethane	%	107	107
Surrogate Toluene-d8	%	97	98
Surrogate 4-Bromofluorobenzene	%	96	94

svTRH (C10-C40) in Water						
Our Reference		379078-5	379078-6	379078-7	379078-8	379078-9
Your Reference	UNITS	Sed-2	SW2	Sed-1	SW1	QA0425
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
Date analysed	-	30/04/2025	30/04/2025	30/04/2025	01/05/2025	01/05/2025
TRH C ₁₀ - C ₁₄	μg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	μg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	μg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	μg/L	<50	<50	<50	<50	<50
TRH >C10 - C16	μg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	μg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	μg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	100	99	97	90	93

svTRH (C10-C40) in Water			
Our Reference		379078-10	379078-11
Your Reference	UNITS	Dis-Sed1	Dis-Sed2
Date Sampled		28/04/2025	28/04/2025
Type of sample		Water	Water
Date extracted	-	30/04/2025	30/04/2025
Date analysed	-	01/05/2025	01/05/2025
TRH C ₁₀ - C ₁₄	μg/L	<50	<50
TRH C ₁₅ - C ₂₈	μg/L	<100	<100
TRH C ₂₉ - C ₃₆	μg/L	<100	<100
Total +ve TRH (C10-C36)	μg/L	<50	<50
TRH >C ₁₀ - C ₁₆	μg/L	<50	<50
TRH >C ₁₆ - C ₃₄	μg/L	<100	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100	<100
Total +ve TRH (>C10-C40)	μg/L	<50	<50
Surrogate o-Terphenyl	%	87	95

HM in water - dissolved						
Our Reference		379078-5	379078-6	379078-7	379078-8	379078-9
Your Reference	UNITS	Sed-2	SW2	Sed-1	SW1	QA0425
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025
Date analysed	-	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025
Aluminium-Dissolved	μg/L	220	90	220	80	70
Arsenic-Dissolved	μg/L	10	3	2	4	3
Boron-Dissolved	μg/L	90	360	60	310	370
Cadmium-Dissolved	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	μg/L	28	<1	18	2	<1
Cobalt-Dissolved	μg/L	1	<1	<1	<1	<1
Copper-Dissolved	μg/L	8	6	5	5	6
Lead-Dissolved	μg/L	<1	<1	<1	<1	<1
Nickel-Dissolved	μg/L	2	<1	<1	1	<1
Selenium-Dissolved	μg/L	<1	<1	<1	<1	<1
Zinc-Dissolved	μg/L	1	10	<1	10	10

HM in water - dissolved			
Our Reference		379078-10	379078-11
Your Reference	UNITS	Dis-Sed1	Dis-Sed2
Date Sampled		28/04/2025	28/04/2025
Type of sample		Water	Water
Date prepared	-	01/05/2025	01/05/2025
Date analysed	-	01/05/2025	01/05/2025
Aluminium-Dissolved	μg/L	70	210
Arsenic-Dissolved	μg/L	3	9
Boron-Dissolved	μg/L	340	80
Cadmium-Dissolved	μg/L	<0.1	<0.1
Chromium-Dissolved	μg/L	2	30
Cobalt-Dissolved	μg/L	<1	1
Copper-Dissolved	μg/L	5	10
Lead-Dissolved	μg/L	<1	<1
Nickel-Dissolved	μg/L	1	2
Selenium-Dissolved	μg/L	<1	<1
Zinc-Dissolved	μg/L	7	<1

Metals in Waters - Acid extractable						
Our Reference		379078-1	379078-2	379078-3	379078-4	379078-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
Date analysed	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
Phosphorus - Total	mg/L	0.3	0.1	1.7	2.3	0.3

Metals in Waters - Acid extractable						
Our Reference		379078-6	379078-7	379078-8	379078-9	379078-10
Your Reference	UNITS	SW2	Sed-1	SW1	QA0425	Dis-Sed1
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
Date analysed	-	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025
Phosphorus - Total	mg/L	0.2	0.09	0.2	0.2	0.2

Metals in Waters - Acid extractable		
Our Reference		379078-11
Your Reference	UNITS	Dis-Sed2
Date Sampled		28/04/2025
Type of sample		Water
Date prepared	-	30/04/2025
Date analysed	-	30/04/2025
Phosphorus - Total	mg/L	0.3

Miscellaneous Inorganics						
Our Reference		379078-1	379078-2	379078-3	379078-4	379078-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Date analysed	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Ammonia as N in water	mg/L	2.1	1.3	0.076	0.86	0.067
Nitrite as N in water	mg/L	<0.005	<0.005	0.31	0.10	0.94
Nitrate as N in water	mg/L	<0.005	<0.005	2.1	0.18	1.9
NOx as N in water	mg/L	<0.005	0.006	2.4	0.3	2.8
TKN in water	mg/L	[NA]	[NA]	11	5.6	2.8
Total Nitrogen in water	mg/L	[NA]	[NA]	13	5.9	5.6
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	0.03

Miscellaneous Inorganics						
Our Reference		379078-6	379078-7	379078-8	379078-9	379078-10
Your Reference	UNITS	SW2	Sed-1	SW1	QA0425	Dis-Sed1
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Date analysed	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Ammonia as N in water	mg/L	<0.005	0.019	<0.005	<0.005	<0.005
Nitrite as N in water	mg/L	0.005	0.29	0.065	<0.005	0.076
Nitrate as N in water	mg/L	0.01	0.53	0.16	0.01	0.19
NOx as N in water	mg/L	0.02	0.82	0.2	0.01	0.3
TKN in water	mg/L	1.7	0.8	1.3	1.5	1.5
Total Nitrogen in water	mg/L	1.7	1.6	1.6	1.6	1.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	0.02	<0.005	<0.005	<0.005

Miscellaneous Inorganics		
Our Reference		379078-11
Your Reference	UNITS	Dis-Sed2
Date Sampled		28/04/2025
Type of sample		Water
Date prepared	-	29/04/2025
Date analysed	-	29/04/2025
Ammonia as N in water	mg/L	0.18
Nitrite as N in water	mg/L	1.0
Nitrate as N in water	mg/L	2.1
NOx as N in water	mg/L	3.1
TKN in water	mg/L	2.9
Total Nitrogen in water	mg/L	6.0
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.03

Miscellaneous Inorganics						
Our Reference		379078-1	379078-2	379078-3	379078-4	379078-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Total Suspended Solids	mg/L		[NA]	28	7	50
pH	pH Units	7.6	6.8	7.5	7.2	10.3
Electrical Conductivity	μS/cm	750	1,300	1,300	790	500

Miscellaneous Inorganics						
Our Reference		379078-6	379078-7	379078-8	379078-9	379078-10
Your Reference	UNITS	SW2	Sed-1	SW1	QA0425	Dis-Sed1
Date Sampled		28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Total Suspended Solids	mg/L	72	90	57	76	48
pH	pH Units	8.3	10.0	8.2	8.2	8.2
Electrical Conductivity	μS/cm	590	300	570	590	600

Miscellaneous Inorganics		
Our Reference		379078-11
Your Reference	UNITS	Dis-Sed2
Date Sampled		28/04/2025
Type of sample		Water
Date prepared	-	28/04/2025
Date analysed	-	28/04/2025
Total Suspended Solids	mg/L	46
рН	pH Units	10.3
Electrical Conductivity	μS/cm	490

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, Analysed by Envirolab Newcastle
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish.
	Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+.
	Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCl.
	Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request.
	Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.
Metals-020	Determination of various metals by ICP-AES.
	Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate).
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.

Envirolab Reference: 379078

Revision No: R00

Method ID	Methodology Summary
Metals-022	Determination of various metals by ICP-MS.
	Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTR	ROL: vTRH(C6-C10)/E	BTEXN in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			29/04/2025	5	29/04/2025	30/04/2025		29/04/2025	
Date analysed	-			30/04/2025	5	30/04/2025	01/05/2025		30/04/2025	
TRH C ₆ - C ₉	μg/L	10	Org-023	<10	5	<10	<10	0	88	
TRH C ₆ - C ₁₀	μg/L	10	Org-023	<10	5	<10	<10	0	88	
Benzene	μg/L	1	Org-023	<1	5	<1	<1	0	90	
Toluene	μg/L	1	Org-023	<1	5	<1	<1	0	89	
Ethylbenzene	μg/L	1	Org-023	<1	5	<1	<1	0	87	
m+p-xylene	μg/L	2	Org-023	<2	5	<2	<2	0	88	
o-xylene	μg/L	1	Org-023	<1	5	<1	<1	0	88	
Naphthalene	μg/L	1	Org-023	<1	5	<1	<1	0	[NT]	
Surrogate Dibromofluoromethane	%		Org-023	105	5	106	103	3	104	
Surrogate Toluene-d8	%		Org-023	98	5	98	99	1	99	
Surrogate 4-Bromofluorobenzene	%		Org-023	95	5	95	98	3	101	[NT]

QUALITY CON	ITROL: svTF	RH (C10-0	C40) in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			30/04/2025	[NT]		[NT]	[NT]	30/04/2025	
Date analysed	-			30/04/2025	[NT]		[NT]	[NT]	30/04/2025	
TRH C ₁₀ - C ₁₄	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	102	
TRH C ₁₅ - C ₂₈	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	109	
TRH C ₂₉ - C ₃₆	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
TRH >C ₁₀ - C ₁₆	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	102	
TRH >C ₁₆ - C ₃₄	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	109	
TRH >C ₃₄ - C ₄₀	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
Surrogate o-Terphenyl	%		Org-020	104	[NT]		[NT]	[NT]	86	

QUALITY CC	NTROL: HN	l in water	- dissolved			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date prepared	-			01/05/2025	5	01/05/2025	01/05/2025		01/05/2025	[NT]
Date analysed	-			01/05/2025	5	01/05/2025	01/05/2025		01/05/2025	[NT]
Aluminium-Dissolved	μg/L	10	Metals-022	<10	5	220	220	0	82	[NT]
Arsenic-Dissolved	μg/L	1	Metals-022	<1	5	10	9	11	89	[NT]
Boron-Dissolved	μg/L	20	Metals-022	<20	5	90	80	12	90	[NT]
Cadmium-Dissolved	μg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	89	[NT]
Chromium-Dissolved	μg/L	1	Metals-022	<1	5	28	27	4	90	[NT]
Cobalt-Dissolved	μg/L	1	Metals-022	<1	5	1	1	0	91	[NT]
Copper-Dissolved	μg/L	1	Metals-022	<1	5	8	8	0	90	[NT]
Lead-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	84	[NT]
Nickel-Dissolved	μg/L	1	Metals-022	<1	5	2	2	0	90	[NT]
Selenium-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	89	[NT]
Zinc-Dissolved	μg/L	1	Metals-022	<1	5	1	1	0	91	[NT]

QUALITY CONTRO	DL: Metals ir	Waters ·	- Acid extractable		Duplicate					Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	379078-2		
Date prepared	-			30/04/2025	1	30/04/2025	30/04/2025		30/04/2025	30/04/2025		
Date analysed	-			30/04/2025	1	30/04/2025	30/04/2025		30/04/2025	30/04/2025		
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.3	0.3	0	101	94		

Date prepared - Date analysed - Ammonia as N in water mg/L 0.005 Inorg-05 Nitrite as N in water mg/L 0.005 Inorg-05 Nitrate as N in water mg/L 0.005 Inorg-05 NOx as N in water mg/L 0.005 Inorg-05				Duplicate					Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	379078-6	
Date prepared	-			29/04/2025	4	29/04/2025	29/04/2025		29/04/2025	29/04/2025	
Date analysed	-			29/04/2025	4	29/04/2025	29/04/2025		29/04/2025	29/04/2025	
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	4	0.86	0.85	1	107	[NT]	
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.10	0.10	0	98	[NT]	
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.18	0.19	5	97	[NT]	
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.3	0.3	0	97	[NT]	
TKN in water	mg/L	0.1	Inorg-062	<0.1	4	5.6	[NT]		[NT]	[NT]	
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	4	5.9	[NT]		110	114	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	7	0.02	[NT]		103	[NT]	

QUALITY COI	NTROL: Mis	cellaneou	is Inorganics			Du	plicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-				7	29/04/2025	29/04/2025		[NT]	
Date analysed	-				7	29/04/2025	29/04/2025		[NT]	
Ammonia as N in water	mg/L	0.005	Inorg-057		7	0.019	[NT]		[NT]	
Nitrite as N in water	mg/L	0.005	Inorg-055		7	0.29	[NT]		[NT]	
Nitrate as N in water	mg/L	0.005	Inorg-055		7	0.53	[NT]		[NT]	
NOx as N in water	mg/L	0.005	Inorg-055		7	0.82	[NT]		[NT]	
TKN in water	mg/L	0.1	Inorg-062		7	0.8	[NT]		[NT]	
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127		7	1.6	1.6	0	[NT]	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118		11	0.03	0.03	0	[NT]	

QUALITY COI	NTROL: Mis	cellaneou	ıs Inorganics			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]	
Date prepared	-				11	29/04/2025	29/04/2025			[NT]	
Date analysed	-				11	29/04/2025	29/04/2025			[NT]	
Ammonia as N in water	mg/L	0.005	Inorg-057		11	0.18	0.18	0		[NT]	
Nitrite as N in water	mg/L	0.005	Inorg-055		11	1.0	1.0	0		[NT]	
Nitrate as N in water	mg/L	0.005	Inorg-055		11	2.1	2.0	5		[NT]	
NOx as N in water	mg/L	0.005	Inorg-055		11	3.1	3.0	3		[NT]	
TKN in water	mg/L	0.1	Inorg-062		11	2.9	[NT]			[NT]	
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127		11	6.0	[NT]			[NT]	

QUALITY COI		Du	Spike Recovery %							
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			28/04/2025	1	28/04/2025	28/04/2025		28/04/2025	
Date analysed	-			28/04/2025	1	28/04/2025	28/04/2025		28/04/2025	
Total Suspended Solids	mg/L	5	Ext-073_J	<5	5	50	[NT]		89	
рН	pH Units		Ext-073_F	[NT]	1	7.6	7.6	0	99	
Electrical Conductivity	μS/cm	1	Ext-073_G	<1	1	750	750	0	94	

QUALITY CONTROL: Miscellaneous Inorganics						Du	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	5	28/04/2025	28/04/2025		[NT]	[NT]
Date analysed	-			[NT]	5	28/04/2025	28/04/2025		[NT]	[NT]
рН	pH Units		Ext-073_F	[NT]	5	10.3	10.3	0	[NT]	[NT]
Electrical Conductivity	μS/cm	1	Ext-073_G	[NT]	5	500	500	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	[NT]	11	46	46	0	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Du	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	28/04/2025	28/04/2025			[NT]
Date analysed	-			[NT]	11	28/04/2025	28/04/2025			[NT]
рН	pH Units		Ext-073_F	[NT]	11	10.3	[NT]			[NT]
Electrical Conductivity	μS/cm	1	Ext-073_G	[NT]	11	490	[NT]			[NT]

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Envirolab Reference: 379078 Page | 18 of 18 Revision No: R00

CHAIN OF CUSTODY - Client

Chatswood NSW 2067

Ph: (02) 9910 6200

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Favirolah Services

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ENVIROLAB GROUP

RCA Australia

Fiona Brooker

Fiona Brooker

Anh Hoang

92 Hill St Carrington, NSW 2294

28/04/2025

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Company:

Project Mar:

Sampler:

Address:

Phone:

Contact person:

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Mob:

Job No: 379078 Data Bassing 29 104/25 RCA Reference Number (i.e. report title) Time Received: 105th Received By: DU 13589a Not appropriate Cool Ambient PO No. (if applicable): Pagoling: Ice/Icepack Envirolab Quote No. : Security: In ad Broken /None Date results required:

ENVIROLAB GROUP

Sydney Lab - Envirolab Services 12 Ashley St. Chatswood, NSW 2067 02 9910 6200 sydney@envirolab.com.au

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Email results to: administrator@rca.com.au + enviro@rca.com.au Lab comments: Email invoice to: Sample information **Tests Required** Comments g ent Suite (NH3, TKN (calc), :05360 - Hexavalent Chromium ප 07290 and E07220 TRH C6-Sediment within container included in analysis if X Provide as much # Containers **Envirolab Sample** :010300 - Nutrient Client Sample ID Date sampled Type of sample information about the TD E00705-NH3, E000790-NO3, E01090-Total sample as you can =01140 - pH 01150 GW1 28/04/2025 Water х GW3 28/04/2025 Water 4 .х. х x х -2 LP 28/04/2025 Water Х Х х Х WL 28/04/2025 Water 4 X. х х Sed-2 28/04/2025 Water 9, х X х Х Х х Х SW2 28/04/2025 Water g. X. х X Х Х х х х Sed-1 28/04/2025 Water 9. х х Х х х х Х Х SW1 28/04/2025 Water 9 х Х х х Х Х х х

		Total	<i>Q</i> 2 <i>Q</i> 7	6 1 1 6 7 E. C.			
Relinquished by (company):	RCA Australia	Received by (company):	Envirolab.			Lab use only:	
Print Name:	Anh Hoang	Print Name:	Santhah Jungh	Job Number	CHACHE	Cooling:	Ice Ice Pack / None
Date & Time:	284-25-13,45	Date & Time:	28/4/24 13:50	Temperature	13°C	Security Seal:	Intact / Broken / Not Used
Signature:	anhor	Signature:	E	TAT Req:	SAME DAY / 1/	2/3/4/STD)

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Page No: 1 of 1



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details		
Your reference	13589a	
Envirolab Reference	379078	
Date Sample Received	28/04/2025	
Date Instructions Received	29/04/2025	
Date Results Expected to be Reported	06/05/2025	

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	11 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	13
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments	
Nil	

Please direct any queries to:

Aileen Hie	Jacinta Hurst						
Phone: 02 9910 6200	Phone: 02 9910 6200						
Fax: 02 9910 6201	Fax: 02 9910 6201						
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au						

Analysis Underway, details on the following page:



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Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved	Metals in Waters -Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1				✓	✓	✓	✓	✓				✓
GW3				✓	✓	✓	✓	✓				✓
LP				✓	✓	✓	✓	✓	✓	✓		✓
WL				✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA0425	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dis-Sed1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

The '\sqrt{'} indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.



Envirolab Services Pty Ltd ABN 37 112 535 645

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 381105

Client Details	
Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details	
Your Reference	<u>13589a</u>
Number of Samples	4 Water
Date samples received	20/05/2025
Date completed instructions received	20/05/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details						
Date results requested by	28/05/2025					
Date of Issue	27/05/2025					
NATA Accreditation Number 2901. This document shall not be reproduced except in full.						
Accredited for compliance with ISO/IE	EC 17025 - Testing. Tests not covered by NATA are denoted with *					

Results Approved By

Diego Bigolin, Inorganics Supervisor Dragana Tomas, Senior Chemist Giovanni Agosti, Group Technical Manager Laura Schofield, Lab Manager Liam Timmins, Organics Supervisor Authorised By

Nancy Zhang, Laboratory Manager





vTRH(C6-C10)/BTEXN in Water					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Date analysed	-	23/05/2025	23/05/2025	23/05/2025	23/05/2025
TRH C ₆ - C ₉	μg/L	<10	<10	<10	<10
TRH C6 - C10	μg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10	<10	<10	<10
Benzene	μg/L	<1	<1	<1	<1
Toluene	μg/L	<1	<1	<1	<1
Ethylbenzene	μg/L	<1	<1	<1	<1
m+p-xylene	μg/L	<2	<2	<2	<2
o-xylene	μg/L	<1	<1	<1	<1
Naphthalene	μg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	96	96	96	96
Surrogate Toluene-d8	%	98	99	98	99
Surrogate 4-Bromofluorobenzene	%	99	98	98	101

svTRH (C10-C40) in Water					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Date analysed	-	23/05/2025	23/05/2025	23/05/2025	23/05/2025
TRH C ₁₀ - C ₁₄	μg/L	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	μg/L	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	μg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	μg/L	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	μg/L	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	μg/L	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	μg/L	<50	<50	<50	<50
Surrogate o-Terphenyl	%	119	102	109	132

HM in water - dissolved					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Date analysed	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Aluminium-Dissolved	μg/L	150	150	170	140
Arsenic-Dissolved	μg/L	8	3	3	4
Boron-Dissolved	μg/L	80	210	230	230
Cadmium-Dissolved	μg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	μg/L	23	2	3	4
Cobalt-Dissolved	μg/L	<1	<1	<1	<1
Copper-Dissolved	μg/L	25	14	6	13
Lead-Dissolved	μg/L	1	<1	<1	5
Nickel-Dissolved	μg/L	3	2	1	1
Selenium-Dissolved	μg/L	<1	2	2	2
Zinc-Dissolved	μg/L	4	36	14	23

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Metals in Waters - Acid extractable					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Date analysed	-	22/05/2025	22/05/2025	22/05/2025	22/05/2025
Phosphorus - Total	mg/L	0.4	0.2	0.2	0.2

Miscellaneous Inorganics					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	21/05/2025	21/05/2025	21/05/2025	21/05/2025
Date analysed	-	21/05/2025	21/05/2025	21/05/2025	21/05/2025
Ammonia as N in water	mg/L	<0.005	0.01	0.008	0.006
Nitrite as N in water	mg/L	0.80	0.01	0.01	0.04
Nitrate as N in water	mg/L	1.7	0.096	0.17	0.13
NOx as N in water	mg/L	2.5	0.11	0.18	0.17
TKN in water	mg/L	0.5	0.9	1.3	0.9
Total Nitrogen in water	mg/L	3.0	1.0	1.1	1.1
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.03	<0.005	<0.005	<0.005

Envirolab Reference: 381105

Revision No: R00

Miscellaneous Inorganics					
Our Reference		381105-1	381105-2	381105-3	381105-4
Your Reference	UNITS	DIS-Sed2	SW2	DIS-Sed1	SW1
Date Sampled		20/05/2025	20/05/2025	20/05/2025	20/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	20/05/2025	20/05/2025	20/05/2025	20/05/2025
Date analysed	-	20/05/2025	20/05/2025	20/05/2025	20/05/2025
Total Suspended Solids	mg/L	180	100	84	85
рН	pH Units	10.0	7.6	7.8	7.9
Electrical Conductivity	μS/cm	520	520	500	480

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, Analysed by Envirolab Newcastle - NATA Site No. 18077
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish.
	Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+.
	Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCI.
	Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request.
	Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

Envirolab Reference: 381105

Revision No: R00

Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.
	Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate).
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-022	Determination of various metals by ICP-MS.
	Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTR		Duplicate Spike F					covery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			22/05/2025	[NT]		[NT]	[NT]	22/05/2025	
Date analysed	-			23/05/2025	[NT]		[NT]	[NT]	23/05/2025	
TRH C ₆ - C ₉	μg/L	10	Org-023	<10	[NT]		[NT]	[NT]	113	
TRH C ₆ - C ₁₀	μg/L	10	Org-023	<10	[NT]		[NT]	[NT]	113	
Benzene	μg/L	1	Org-023	<1	[NT]		[NT]	[NT]	114	
Toluene	μg/L	1	Org-023	<1	[NT]		[NT]	[NT]	115	
Ethylbenzene	μg/L	1	Org-023	<1	[NT]		[NT]	[NT]	111	
m+p-xylene	μg/L	2	Org-023	<2	[NT]		[NT]	[NT]	112	
o-xylene	μg/L	1	Org-023	<1	[NT]		[NT]	[NT]	113	
Naphthalene	μg/L	1	Org-023	<1	[NT]		[NT]	[NT]	[NT]	
Surrogate Dibromofluoromethane	%		Org-023	98	[NT]		[NT]	[NT]	99	
Surrogate Toluene-d8	%		Org-023	98	[NT]		[NT]	[NT]	101	
Surrogate 4-Bromofluorobenzene	%		Org-023	98	[NT]		[NT]	[NT]	100	

QUALITY CON		Duplicate Spike Reco								
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			22/05/2025	[NT]		[NT]	[NT]	22/05/2025	
Date analysed	-			22/05/2025	[NT]		[NT]	[NT]	23/05/2025	
TRH C ₁₀ - C ₁₄	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	119	
TRH C ₁₅ - C ₂₈	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	117	
TRH C ₂₉ - C ₃₆	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	114	
TRH >C ₁₀ - C ₁₆	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	119	
TRH >C ₁₆ - C ₃₄	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	117	
TRH >C ₃₄ - C ₄₀	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	114	
Surrogate o-Terphenyl	%		Org-020	117	[NT]		[NT]	[NT]	103	

QUALITY CC			Duplicate Spike Re			covery %				
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date prepared	-			22/05/2025	[NT]		[NT]	[NT]	22/05/2025	
Date analysed	-			22/05/2025	[NT]		[NT]	[NT]	22/05/2025	
Aluminium-Dissolved	μg/L	10	Metals-022	<10	[NT]		[NT]	[NT]	90	
Arsenic-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	87	
Boron-Dissolved	μg/L	20	Metals-022	<20	[NT]		[NT]	[NT]	92	
Cadmium-Dissolved	μg/L	0.1	Metals-022	<0.1	[NT]		[NT]	[NT]	87	
Chromium-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	85	
Cobalt-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	85	
Copper-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	84	
Lead-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	92	
Nickel-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	85	
Selenium-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	86	
Zinc-Dissolved	μg/L	1	Metals-022	<1	[NT]		[NT]	[NT]	86	

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate Spike F				covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/05/2025	1	22/05/2025	22/05/2025		22/05/2025	[NT]
Date analysed	-			22/05/2025	1	22/05/2025	22/05/2025		22/05/2025	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.4	0.4	0	103	[NT]

Envirolab Reference: 381105

Revision No: R00

QUALITY COI		Duplicate Spike			Spike Re	covery %				
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	381105-1
Date prepared	-			21/05/2025	4	21/05/2025	21/05/2025		21/05/2025	21/05/2025
Date analysed	-			21/05/2025	4	21/05/2025	21/05/2025		21/05/2025	21/05/2025
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	4	0.006	[NT]		99	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.04	[NT]		100	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.13	[NT]		95	[NT]
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	4	0.17	[NT]		96	[NT]
TKN in water	mg/L	0.1	Inorg-062	<0.1	4	0.9	[NT]		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	4	1.1	[NT]		86	[NT]
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	4	<0.005	<0.005	0	108	119

QUALITY COI		Du	Spike Re	Spike Recovery %						
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/05/2025	[NT]	[NT]		[NT]	20/05/2025	
Date analysed	-			20/05/2025	[NT]	[NT]		[NT]	20/05/2025	
Total Suspended Solids	mg/L	5	Ext-073_J	<5	[NT]	[NT]		[NT]	101	
рН	pH Units		Ext-073_F	[NT]	[NT]	[NT]		[NT]	100	
Electrical Conductivity	μS/cm	1	Ext-073_G	[NT]	[NT]	[NT]		[NT]	105	

Result Definiti	Result Definitions						
NT	Not tested						
NA	Test not required						
INS	Insufficient sample for this test						
PQL	Practical Quantitation Limit						
<	Less than						
>	Greater than						
RPD	Relative Percent Difference						
LCS	Laboratory Control Sample						
NS	Not specified						
NEPM	National Environmental Protection Measure						
NR	Not Reported						

Quality Contro	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CHAIN OF CUSTODY - Client



Page No:

ENVÍROLAB Empl

ENVIROLAB GROUP

Company:	·		RCA Australia		RCA Reference Number	eference Number (i.e. report title)													
Contact person:			Fiona Brooker		13589a								ENVIROLAB GROUP						
Project Mgr:			Fiona Brooker		PO No. (if applicable): Not applicable														
Sampler:			Anh Hoang / ()	ζ	Envirolab Quote No. :		<u> </u>	+		BM8				┨					
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Phone:	02 4902 9200	Mob:	0410 230	644	Note: Inform lab in advance i	if urgent tui	rnaround is	required -	- surch	arge applies		,	,	ŀ					-
Email results to: Email invoice to:	<u>administ</u>	rator@ro	ca.com.au + enviro@r	ca.com.au	Lab comments:			-	· • · · · · · ·			-	-		\$	syano	ey@envir	olab	.com.au
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381105-1	DIS-Sed2	2	20521-12-10	Water	9	x		×	X	X	X	X	 					 	
-2	SW2		205M-12:30		9	×	×	×	x	×	×	×	 		 		×	 	
	DIS-Sed:		20021-11:20		9 .	×	×	x	x	x	×	×					×	 ;	
-4	SW1		20,54-13,00	Water	9	×	×	x	×	×	×	×	-					-Env	ricolals Services 12 Ashley St
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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details		
Your reference	13589a	
Envirolab Reference	381105	
Date Sample Received	20/05/2025	
Date Instructions Received	20/05/2025	
Date Results Expected to be Reported	28/05/2025	

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	3
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments	
Nil	

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
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Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved	Metals in Waters -Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
DIS-Sed2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DIS-Sed1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

The '√' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.



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CERTIFICATE OF ANALYSIS 382113

Client Details	
Client	RCA Australia
Attention	Enviro RCA
Address	PO Box 175, Carrington, NSW, 2294

Sample Details	
Your Reference	<u>13589a</u>
Number of Samples	9 Water
Date samples received	30/06/2025
Date completed instructions received	03/06/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details	
Date results requested by	06/06/2025
Date of Issue	06/06/2025
NATA Accreditation Number 2901. T	his document shall not be reproduced except in full.
Accredited for compliance with ISO/II	EC 17025 - Testing. Tests not covered by NATA are denoted with *

Results Approved By

Diego Bigolin, Inorganics Supervisor Dragana Tomas, Senior Chemist Giovanni Agosti, Group Technical Manager Laura Schofield, Lab Manager Tabitha Roberts, Senior Chemist Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager



vTRH(C6-C10)/BTEXN in Water						
Our Reference		382113-1	382113-2	382113-5	382113-6	382113-7
Your Reference	UNITS	GW1	GW3	Sed-2	SW2	Sed-1
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	03/06/2025	03/06/2025	03/06/2025	03/06/2025	03/06/2025
Date analysed	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
TRH C ₆ - C ₉	μg/L	<10	12	<10	<10	<10
TRH C6 - C10	μg/L	<10	16	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10	<10	<10	<10	<10
Benzene	μg/L	<1	1	<1	<1	<1
Toluene	μg/L	<1	2	<1	<1	<1
Ethylbenzene	μg/L	<1	<1	<1	<1	<1
m+p-xylene	μg/L	<2	3	<2	<2	<2
o-xylene	μg/L	<1	<1	<1	<1	<1
Naphthalene	μg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	109	109	109	111	101
Surrogate Toluene-d8	%	99	100	100	100	98
Surrogate 4-Bromofluorobenzene	%	99	98	98	97	98

vTRH(C6-C10)/BTEXN in Water		
Our Reference		382113-8
Your Reference	UNITS	SW1
Date Sampled		30/05/2025
Type of sample		Water
Date extracted	-	03/06/2025
Date analysed	-	04/06/2025
TRH C ₆ - C ₉	μg/L	<10
TRH C6 - C10	μg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10
Benzene	μg/L	<1
Toluene	μg/L	<1
Ethylbenzene	μg/L	<1
m+p-xylene	μg/L	<2
o-xylene	μg/L	<1
Naphthalene	μg/L	<1
Surrogate Dibromofluoromethane	%	109
Surrogate Toluene-d8	%	100
Surrogate 4-Bromofluorobenzene	%	96

svTRH (C10-C40) in Water						
Our Reference		382113-1	382113-2	382113-5	382113-6	382113-7
Your Reference	UNITS	GW1	GW3	Sed-2	SW2	Sed-1
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Date analysed	-	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025
TRH C ₁₀ - C ₁₄	μg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	μg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	μg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	μg/L	<50	<50	<50	<50	<50
TRH >C10 - C16	μg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	μg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	μg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	107	110	102	105	107

svTRH (C10-C40) in Water		
Our Reference		382113-8
Your Reference	UNITS	SW1
Date Sampled		30/05/2025
Type of sample		Water
Date extracted	-	04/06/2025
Date analysed	-	05/06/2025
TRH C ₁₀ - C ₁₄	μg/L	<50
TRH C ₁₅ - C ₂₈	μg/L	<100
TRH C ₂₉ - C ₃₆	μg/L	<100
Total +ve TRH (C10-C36)	μg/L	<50
TRH >C ₁₀ - C ₁₆	μg/L	<50
TRH >C ₁₆ - C ₃₄	μg/L	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100
Total +ve TRH (>C10-C40)	μg/L	<50
Surrogate o-Terphenyl	%	102

PAHs in Water			
Our Reference		382113-1	382113-2
Your Reference	UNITS	GW1	GW3
Date Sampled		30/05/2025	30/05/2025
Type of sample		Water	Water
Date extracted	-	04/06/2025	04/06/2025
Date analysed	-	05/06/2025	05/06/2025
Naphthalene	μg/L	0.2	0.3
Acenaphthylene	μg/L	<0.1	<0.1
Acenaphthene	μg/L	<0.1	<0.1
Fluorene	μg/L	<0.1	<0.1
Phenanthrene	μg/L	<0.1	<0.1
Anthracene	μg/L	<0.1	<0.1
Fluoranthene	μg/L	<0.1	<0.1
Pyrene	μg/L	<0.1	<0.1
Benzo(a)anthracene	μg/L	<0.1	<0.1
Chrysene	μg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	μg/L	<0.2	<0.2
Benzo(a)pyrene	μg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	μg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	μg/L	<0.1	<0.1
Benzo(g,h,i)perylene	μg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	μg/L	<0.5	<0.5
Total +ve PAH's	μg/L	0.19	0.33
Surrogate p-Terphenyl-d14	%	103	106

HM in water - dissolved					
Our Reference		382113-5	382113-6	382113-7	382113-8
Your Reference	UNITS	Sed-2	SW2	Sed-1	SW1
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Date analysed	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Aluminium-Dissolved	μg/L	130	10	390	<10
Arsenic-Dissolved	μg/L	8	3	3	2
Boron-Dissolved	μg/L	60	100	40	100
Cadmium-Dissolved	μg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	μg/L	32	<1	19	<1
Cobalt-Dissolved	μg/L	2	1	<1	<1
Copper-Dissolved	μg/L	11	2	5	3
Lead-Dissolved	μg/L	<1	<1	<1	<1
Nickel-Dissolved	μg/L	3	2	<1	2
Selenium-Dissolved	μg/L	<1	<1	<1	<1
Zinc-Dissolved	μg/L	3	29	3	10

Metals in Waters - Acid extractable						
Our Reference		382113-1	382113-2	382113-3	382113-4	382113-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025
Date analysed	-	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025
Phosphorus - Total	mg/L	0.4	0.2	5.0	5.1	0.4

Metals in Waters - Acid extractable					
Our Reference		382113-6	382113-7	382113-8	382113-9
Your Reference	UNITS	SW2	Sed-1	SW1	QAMay
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	05/06/2025	05/06/2025	05/06/2025	05/06/2025
Date analysed	-	05/06/2025	05/06/2025	05/06/2025	05/06/2025
Phosphorus - Total	mg/L	0.06	<0.05	<0.05	5.1

Miscellaneous Inorganics						
Our Reference		382113-1	382113-2	382113-3	382113-4	382113-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Date analysed	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Ammonia as N in water	mg/L	1.1	1.0	0.96	0.67	0.15
Nitrite as N in water	mg/L	<0.005	0.006	<0.01	<0.005	0.008
Nitrate as N in water	mg/L	<0.005	<0.005	<0.01	<0.02	3.3
NOx as N in water	mg/L	<0.005	0.009	<0.01	<0.02	3.3
TKN in water	mg/L	[NA]	[NA]	8.9	9.8	0.5
Total Nitrogen in water	mg/L	[NA]	[NA]	8.9	9.8	3.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	0.03

Miscellaneous Inorganics					
Our Reference		382113-6	382113-7	382113-8	382113-9
Your Reference	UNITS	SW2	Sed-1	SW1	QAMay
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Date analysed	-	04/06/2025	04/06/2025	04/06/2025	04/06/2025
Ammonia as N in water	mg/L	0.60	0.13	1.2	1.1
Nitrite as N in water	mg/L	<0.005	0.32	0.04	<0.01
Nitrate as N in water	mg/L	<0.005	0.69	0.50	<0.01
NOx as N in water	mg/L	0.008	1.0	0.54	<0.01
TKN in water	mg/L	1.3	0.3	0.4	1.8
Total Nitrogen in water	mg/L	1.3	1.3	0.9	1.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	0.02	<0.005	[NA]

Miscellaneous Inorganics						
Our Reference		382113-3	382113-4	382113-5	382113-6	382113-7
Your Reference	UNITS	LP	WL	Sed-2	SW2	Sed-1
Date Sampled		30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Date analysed	-	30/05/2025	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Total Suspended Solids	mg/L	25	19	42	5	53
pH	pH Units	7.2	6.9	7.4	7.2	9.8
Electrical Conductivity	μS/cm	1,700	1,900	550	890	280

Miscellaneous Inorganics			
Our Reference		382113-8	382113-9
Your Reference	UNITS	SW1	QAMay
Date Sampled		30/05/2025	30/05/2025
Type of sample		Water	Water
Date prepared	-	30/05/2025	30/05/2025
Date analysed	-	30/05/2025	30/05/2025
Total Suspended Solids	mg/L	<5	25
рН	pH Units	7.4	7.3
Electrical Conductivity	μS/cm	950	1,700

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, Analysed by Envirolab Newcastle - NATA Site No. 18077
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish.
	Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+.
	Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCI.
	Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request.
	Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

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Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.
	Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate).
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-022	Determination of various metals by ICP-MS.
	Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

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QUALITY CONTR	ROL: vTRH(0	C6-C10)/E	BTEXN in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			03/06/2025	2	03/06/2025	04/06/2025		03/06/2025	
Date analysed	-			04/06/2025	2	04/06/2025	05/06/2025		04/06/2025	
TRH C ₆ - C ₉	μg/L	10	Org-023	<10	2	12	14	15	87	
TRH C ₆ - C ₁₀	μg/L	10	Org-023	<10	2	16	18	12	87	
Benzene	μg/L	1	Org-023	<1	2	1	1	0	88	
Toluene	μg/L	1	Org-023	<1	2	2	2	0	88	
Ethylbenzene	μg/L	1	Org-023	<1	2	<1	<1	0	88	
m+p-xylene	μg/L	2	Org-023	<2	2	3	3	0	86	
o-xylene	μg/L	1	Org-023	<1	2	<1	<1	0	85	
Naphthalene	μg/L	1	Org-023	<1	2	<1	<1	0	[NT]	
Surrogate Dibromofluoromethane	%		Org-023	106	2	109	100	9	102	
Surrogate Toluene-d8	%		Org-023	99	2	100	97	3	101	
Surrogate 4-Bromofluorobenzene	%		Org-023	97	2	98	96	2	101	[NT]

Envirolab Reference: 382113

Revision No: R00

QUALITY CON	ITROL: svTF	RH (C10-0	C40) in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			04/06/2025	[NT]		[NT]	[NT]	04/06/2025	
Date analysed	-			04/06/2025	[NT]		[NT]	[NT]	04/06/2025	
TRH C ₁₀ - C ₁₄	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	104	
TRH C ₁₅ - C ₂₈	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	110	
TRH C ₂₉ - C ₃₆	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
TRH >C ₁₀ - C ₁₆	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	104	
TRH >C ₁₆ - C ₃₄	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	110	
TRH >C ₃₄ - C ₄₀	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
Surrogate o-Terphenyl	%		Org-020	87	[NT]		[NT]	[NT]	126	

QUAL	ITY CONTRO	L: PAHs ir	ı Water			Du	plicate	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]	
Date extracted	-			04/06/2025	[NT]		[NT]	[NT]	04/06/2025		
Date analysed	-			05/06/2025	[NT]		[NT]	[NT]	05/06/2025		
Naphthalene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	89		
Acenaphthylene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Acenaphthene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	73		
Fluorene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	77		
Phenanthrene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	92		
Anthracene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Fluoranthene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	86		
Pyrene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	88		
Benzo(a)anthracene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Chrysene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	74		
Benzo(b,j+k)fluoranthene	μg/L	0.2	Org-022/025	<0.2	[NT]		[NT]	[NT]	[NT]		
Benzo(a)pyrene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	75		
Indeno(1,2,3-c,d)pyrene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Dibenzo(a,h)anthracene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Benzo(g,h,i)perylene	μg/L	0.1	Org-022/025	<0.1	[NT]		[NT]	[NT]	[NT]		
Surrogate p-Terphenyl-d14	%		Org-022/025	103	[NT]		[NT]	[NT]	104		

QUALITY CC	NTROL: HN	l in water	- dissolved			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			04/06/2025	5	04/06/2025	04/06/2025		04/06/2025	[NT]
Date analysed	-			04/06/2025	5	04/06/2025	04/06/2025		04/06/2025	[NT]
Aluminium-Dissolved	μg/L	10	Metals-022	<10	5	130	140	7	99	[NT]
Arsenic-Dissolved	μg/L	1	Metals-022	<1	5	8	9	12	99	[NT]
Boron-Dissolved	μg/L	20	Metals-022	<20	5	60	60	0	87	[NT]
Cadmium-Dissolved	μg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	101	[NT]
Chromium-Dissolved	μg/L	1	Metals-022	<1	5	32	34	6	113	[NT]
Cobalt-Dissolved	μg/L	1	Metals-022	<1	5	2	2	0	110	[NT]
Copper-Dissolved	μg/L	1	Metals-022	<1	5	11	11	0	108	[NT]
Lead-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	99	[NT]
Nickel-Dissolved	μg/L	1	Metals-022	<1	5	3	3	0	110	[NT]
Selenium-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	101	[NT]
Zinc-Dissolved	μg/L	1	Metals-022	<1	5	3	3	0	112	[NT]

QUALITY CONTRO	OL: Metals ir	Waters ·	- Acid extractable	Duplicate					Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	382113-2	
Date prepared	-			05/06/2025	1	05/06/2025	05/06/2025		05/06/2025	05/06/2025	
Date analysed	-			05/06/2025	1	05/06/2025	05/06/2025		05/06/2025	05/06/2025	
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.4	0.4	0	86	98	

QUALITY COI	NTROL: Mis	cellaneou	is Inorganics		Duplicate				Spike Re	Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	382113-4	
Date prepared	-			04/06/2025	3	04/06/2025	04/06/2025		04/06/2025	04/06/2025	
Date analysed	-			04/06/2025	3	04/06/2025	04/06/2025		04/06/2025	04/06/2025	
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	3	0.96	0.95	1	90	85	
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	3	<0.01	<0.01	0	103	109	
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	3	<0.01	<0.01	0	95	78	
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	3	<0.01	<0.01	0	96	78	
TKN in water	mg/L	0.1	Inorg-062	<0.1	3	8.9	[NT]			[NT]	
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	3	8.9	[NT]		91	[NT]	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	5	0.03	[NT]		107	[NT]	

QUALITY COI	NTROL: Mis	cellaneou	is Inorganics			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	382113-7	
Date prepared	-			[NT]	5	04/06/2025	04/06/2025			04/06/2025	
Date analysed	-			[NT]	5	04/06/2025	04/06/2025			04/06/2025	
Ammonia as N in water	mg/L	0.005	Inorg-057	[NT]	5	0.15	[NT]			[NT]	
Nitrite as N in water	mg/L	0.005	Inorg-055	[NT]	5	0.008	[NT]			[NT]	
Nitrate as N in water	mg/L	0.005	Inorg-055	[NT]	5	3.3	[NT]			[NT]	
NOx as N in water	mg/L	0.005	Inorg-055	[NT]	5	3.3	[NT]			[NT]	
TKN in water	mg/L	0.1	Inorg-062	[NT]	5	0.5	[NT]			[NT]	
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	5	3.8	3.4	11		85	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	[NT]	6	<0.005	<0.005	0		[NT]	

QUALITY COI	NTROL: Mis	cellaneou	ıs Inorganics			Du	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-				6	04/06/2025	04/06/2025			
Date analysed	-				6	04/06/2025	04/06/2025			
Ammonia as N in water	mg/L	0.005	Inorg-057		6	0.60	[NT]			
Nitrite as N in water	mg/L	0.005	Inorg-055		6	<0.005	[NT]			
Nitrate as N in water	mg/L	0.005	Inorg-055		6	<0.005	[NT]			
NOx as N in water	mg/L	0.005	Inorg-055		6	0.008	[NT]			
TKN in water	mg/L	0.1	Inorg-062		6	1.3	[NT]			
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127		6	1.3	[NT]			

QUALITY COI	NTROL: Mis	cellaneou	s Inorganics			Du	Spike Re	covery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			30/05/2025	[NT]		[NT]	[NT]	30/05/2025	[NT]
Date analysed	-			30/05/2025	[NT]		[NT]	[NT]	30/05/2025	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	[NT]		[NT]	[NT]	110	[NT]
рН	pH Units		Ext-073_F	[NT]	[NT]		[NT]	[NT]	98	[NT]
Electrical Conductivity	μS/cm	1	Ext-073_G	[NT]	[NT]		[NT]	[NT]	97	[NT]

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Contro	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Report Comments

MISC_INORG: Nitrate as N in water, NOx as N in water, Nitrite as N in water PQL has been raised due to matrix interferences from analytes (other than those being tested) in the sample/s. Samples were diluted and reanalysed however same results were achieved.

Envirolab Reference: 382113 Page | 20 of 20

Revision No: R00

CHAIN OF CUSTODY - Client

ENVIROUAB

Envirolab Services
12 Ashley St
Chatswood NSW 2007 ENVIROLAB
Ph: (02) 9910 6200

envingen.

Job No: 382113 **ENVIROLAB GROUP** Company: **RCA Australia** RCA Reference Number (i.e. report title) Date Received: 3/ENVIROLAB GROUP Contact person: Fiona Brooker 13589a Time Received: Project Mar: Fiona Brooker PO No. (if applicable): Received By: KC Not applicable Temp Cool/Ambient Sampler: Envirolab Quote No. : Seculty (numbered of the North Property (numbered of the North Address: Date results required: 92 Hill St Carrington, NSW 2294 12 Ashley St, Chatswood, NSW 2067 0410 230 644) 0 90 194 5593 02 9910 6200 sydney@envirolab.com.au Phone: 02 4902 9200 Mob: Email results to: administrator@rca.com.au + enviro@rca.com.au Lab comments: Email invoice to: Sample Information ... **Tests** Required Comments 603010_D - Dissolved (Aluminium, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, þe :05360 - Hexavalent Chromium 01150 - Electrical Conductivity E07290 and E07220 TRH C6-C40 and BTEXN 2 E00705-NH3, E00815-NO2, E00790-NO3, E00850-NOx, E01090-Total P) t within container to in analysis if X 01580 - Total Suspended 08310 - PAH low level **Envirolab Sample** # Containers Provide as much Client Sample ID Date sampled Type of sample ID information about the sample as you can 01140 - pH .⊑ Sediment included i GW1 30/05/2025 Water 8 х х GW3 30/05/2025 Water 8 х х х х LP 30/05/2025 Water 4 X. χ X Х Х WL 30/05/2025 Water 4 Х Х Х X Х Sed-2 30/05/2025 Water 9 X х х х Х X Х SW2 30/05/2025 Water X 9 Х Х х χ × x Х Sed-1 30/05/2025 Water 9 . X' χ х х х × X х SW1 30/05/2025 Water × Х х Х х X X Х 9 382112-01 QAMOAN VA 30/05/2025 Water X х 4 × х X 666 7 12 100 12 15 45 . 21 ∃7 ⁴ Relinquished by (company): ELS SYP RCA Australia Received by (company): Lab use only: Muhamme M Print Name: K- chavez Print Name: Job Number Ice / Ice Pack / None Cooling: Date & Time: Date & Time: 1040 Temperature Security Seal: Intact / Broken / Not Used Signature: Signature: TAT Req: SAME DAY / 1 / 2 / 3 / 4 / STD



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	Enviro RCA

Sample Login Details		
Your reference	13589a	
Envirolab Reference	382113	
Date Sample Received	30/06/2025	
Date Instructions Received	03/06/2025	
Date Results Expected to be Reported	06/06/2025	

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	9 Water
Turnaround Time Requested	3 days
Temperature on Receipt (°C)	3.7
Cooling Method	Ice
Sampling Date Provided	YES

Comments	
Nil	

Please direct any queries to:

Aileen Hie	Jacinta Hurst					
Phone: 02 9910 6200	Phone: 02 9910 6200					
Fax: 02 9910 6201	Fax: 02 9910 6201					
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au					

Analysis Underway, details on the following page:



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Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	HM in water - dissolved	Metals in Waters -Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1	✓	✓	✓		✓	✓	✓	✓	✓				
GW3	✓	✓	✓		✓	✓	✓	✓	✓				
LP					✓	✓	✓	✓	✓	✓	✓		✓
WL					✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW2	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
					-		1	1	1	1	1	1	,
Sed-1	✓	✓		✓	✓	V	Y	V	✓	✓	✓	V	✓
Sed-1 SW1	✓	√		✓	√	√	∀		√	√	-	√	✓

The 'V' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.



Envirolab Services Pty Ltd

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CERTIFICATE OF ANALYSIS 384638

Client Details	
Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details	
Your Reference	<u>13589a</u>
Number of Samples	8 Water
Date samples received	01/07/2025
Date completed instructions received	01/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details					
Date results requested by	08/07/2025				
Date of Issue	08/07/2025				
NATA Accreditation Number 2901. This document shall not be reproduced except in full.					
Accredited for compliance with ISC	O/IEC 17025 - Testing. Tests not covered by NATA are denoted with *				

Results Approved By

Jack Wallis, Senior Chemist Jenny He, Inorganic Team Leader Laura Schofield, Lab Manager Loren Bardwell, Development Chemist Tabitha Roberts, Senior Chemist **Authorised By**

Nancy Zhang, Laboratory Manager



vTRH(C6-C10)/BTEXN in Water				
Our Reference		384638-5	384638-6	384638-7
Your Reference	UNITS	Sed-2	SW2	Sed-1
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date extracted	-	02/07/2025	02/07/2025	02/07/2025
Date analysed	-	03/07/2025	03/07/2025	03/07/2025
TRH C ₆ - C ₉	μg/L	<10	<10	<10
TRH C ₆ - C ₁₀	μg/L	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	μg/L	<10	<10	<10
Benzene	μg/L	<1	<1	<1
Toluene	μg/L	<1	<1	<1
Ethylbenzene	μg/L	<1	<1	<1
m+p-xylene	μg/L	<2	<2	<2
o-xylene	μg/L	<1	<1	<1
Naphthalene	μg/L	<1	<1	<1
Surrogate Dibromofluoromethane	%	106	105	105
Surrogate Toluene-d8	%	100	100	100
Surrogate 4-Bromofluorobenzene	%	97	88	85

svTRH (C10-C40) in Water				
Our Reference		384638-5	384638-6	384638-7
Your Reference	UNITS	Sed-2	SW2	Sed-1
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date extracted	-	02/07/2025	02/07/2025	02/07/2025
Date analysed	-	03/07/2025	02/07/2025	02/07/2025
TRH C ₁₀ - C ₁₄	μg/L	<50	<50	<50
TRH C ₁₅ - C ₂₈	μg/L	210	<100	<100
TRH C ₂₉ - C ₃₆	μg/L	<100	<100	<100
Total +ve TRH (C10-C36)	μg/L	210	<50	<50
TRH >C10 - C16	μg/L	<50	<50	<50
TRH >C ₁₆ - C ₃₄	μg/L	250	<100	<100
TRH >C ₃₄ - C ₄₀	μg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	μg/L	250	<50	<50
Surrogate o-Terphenyl	%	94	88	83

HM in water - dissolved				
Our Reference		384638-5	384638-6	384638-7
Your Reference	UNITS	Sed-2	SW2	Sed-1
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date prepared	-	02/07/2025	02/07/2025	02/07/2025
Date analysed	-	02/07/2025	02/07/2025	02/07/2025
Aluminium-Dissolved	μg/L	50	<10	50
Arsenic-Dissolved	μg/L	9	2	4
Boron-Dissolved	μg/L	60	100	60
Cadmium-Dissolved	μg/L	<0.1	<0.1	<0.1
Chromium-Dissolved	μg/L	19	<1	12
Cobalt-Dissolved	μg/L	1	<1	<1
Copper-Dissolved	μg/L	9	2	5
Lead-Dissolved	μg/L	<1	<1	<1
Nickel-Dissolved	μg/L	2	1	<1
Selenium-Dissolved	μg/L	<1	<1	<1
Zinc-Dissolved	μg/L	3	10	3

Metals in Waters - Acid extractable						
Our Reference		384638-1	384638-2	384638-3	384638-4	384638-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
Date analysed	-	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
Phosphorus - Total	mg/L	0.60	0.1	5.5	6.4	0.4

Metals in Waters - Acid extractable				
Our Reference		384638-6	384638-7	384638-8
Your Reference	UNITS	SW2	Sed-1	QA062025
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date prepared	-	02/07/2025	02/07/2025	02/07/2025
Date analysed	-	02/07/2025	02/07/2025	02/07/2025
Phosphorus - Total	mg/L	0.05	<0.05	<0.05

Miscellaneous Inorganics						
Our Reference		384638-1	384638-2	384638-3	384638-4	384638-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/07/2025	01/07/2025	01/07/2025	01/07/2025	01/07/2025
Date analysed	-	01/07/2025	01/07/2025	01/07/2025	01/07/2025	01/07/2025
Ammonia as N in water	mg/L	2.4	2.9	0.04	0.008	0.007
Nitrite as N in water	mg/L	<0.005	<0.01	<0.01	<0.01	<0.01
Nitrate as N in water	mg/L	0.006	<0.01	<0.02	<0.01	<0.02
NOx as N in water	mg/L	0.008	<0.01	<0.02	<0.01	<0.02
TKN in water	mg/L	[NA]	[NA]	12	10	3.8
Total Nitrogen in water	mg/L	[NA]	[NA]	12	10	3.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	0.02

Miscellaneous Inorganics				
Our Reference		384638-6	384638-7	384638-8
Your Reference	UNITS	SW2	Sed-1	QA062025
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date prepared	-	01/07/2025	01/07/2025	01/07/2025
Date analysed	-	01/07/2025	01/07/2025	01/07/2025
Ammonia as N in water	mg/L	<0.005	<0.005	<0.005
Nitrite as N in water	mg/L	<0.005	0.03	<0.005
Nitrate as N in water	mg/L	<0.005	1.0	2.0
NOx as N in water	mg/L	<0.005	1.0	2.0
TKN in water	mg/L	0.9	0.3	2.8
Total Nitrogen in water	mg/L	0.9	1.3	4.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	0.01	[NA]

Miscellaneous Inorganics						
Our Reference		384638-1	384638-2	384638-3	384638-4	384638-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Date analysed	-	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Total Suspended Solids	mg/L	[NA]	[NA]	58	18	40
рН	pH Units	7.1	6.3	8.1	7.2	9.3
Electrical Conductivity	μS/cm	1,100	1,300	2,300	2,800	560

Miscellaneous Inorganics				
Our Reference		384638-6	384638-7	384638-8
Your Reference	UNITS	SW2	Sed-1	QA062025
Date Sampled		30/06/2025	30/06/2025	30/06/2025
Type of sample		Water	Water	Water
Date prepared	-	30/06/2025	30/06/2025	30/06/2025
Date analysed	-	30/06/2025	30/06/2025	30/06/2025
Total Suspended Solids	mg/L	10	29	15
pH	pH Units	7.7	9.2	7.6
Electrical Conductivity	μS/cm	1,100	350	1,100

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, Analysed by Envirolab Newcastle - NATA Site No. 18077
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish.
	Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+.
	Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCI.
	Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request.
	Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

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Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.
	Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate).
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
	Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-022	Determination of various metals by ICP-MS.
	Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
	Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTR	ROL: vTRH(0	C6-C10)/E	BTEXN in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			02/07/2025	6	02/07/2025	03/07/2025		02/07/2025	
Date analysed	-			03/07/2025	6	03/07/2025	04/07/2025		03/07/2025	
TRH C ₆ - C ₉	μg/L	10	Org-023	<10	6	<10	<10	0	98	
TRH C ₆ - C ₁₀	μg/L	10	Org-023	<10	6	<10	<10	0	98	
Benzene	μg/L	1	Org-023	<1	6	<1	<1	0	97	
Toluene	μg/L	1	Org-023	<1	6	<1	<1	0	97	
Ethylbenzene	μg/L	1	Org-023	<1	6	<1	<1	0	98	
m+p-xylene	μg/L	2	Org-023	<2	6	<2	<2	0	100	
o-xylene	μg/L	1	Org-023	<1	6	<1	<1	0	100	
Naphthalene	μg/L	1	Org-023	<1	6	<1	<1	0	[NT]	
Surrogate Dibromofluoromethane	%		Org-023	102	6	105	104	1	101	
Surrogate Toluene-d8	%		Org-023	99	6	100	101	1	101	
Surrogate 4-Bromofluorobenzene	%		Org-023	99	6	88	98	11	106	

QUALITY CON	ITROL: svTF	RH (C10-0	C40) in Water			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			02/07/2025	[NT]		[NT]	[NT]	02/07/2025	
Date analysed	-			02/07/2025	[NT]		[NT]	[NT]	02/07/2025	
TRH C ₁₀ - C ₁₄	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	105	
TRH C ₁₅ - C ₂₈	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	109	
TRH C ₂₉ - C ₃₆	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
TRH >C ₁₀ - C ₁₆	μg/L	50	Org-020	<50	[NT]		[NT]	[NT]	105	
TRH >C ₁₆ - C ₃₄	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	109	
TRH >C ₃₄ - C ₄₀	μg/L	100	Org-020	<100	[NT]		[NT]	[NT]	100	
Surrogate o-Terphenyl	%		Org-020	88	[NT]		[NT]	[NT]	109	

QUALITY CC	NTROL: HN	l in water	- dissolved			Du	plicate		Spike Re	Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W7	384638-6		
Date prepared	-			02/07/2025	5	02/07/2025	02/07/2025		02/07/2025	02/07/2025		
Date analysed	-			02/07/2025	5	02/07/2025	02/07/2025		02/07/2025	02/07/2025		
Aluminium-Dissolved	μg/L	10	Metals-022	<10	5	50	50	0	83	71		
Arsenic-Dissolved	μg/L	1	Metals-022	<1	5	9	10	11	82	89		
Boron-Dissolved	μg/L	20	Metals-022	<20	5	60	60	0	85	93		
Cadmium-Dissolved	μg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	83	86		
Chromium-Dissolved	μg/L	1	Metals-022	<1	5	19	19	0	86	91		
Cobalt-Dissolved	μg/L	1	Metals-022	<1	5	1	1	0	85	88		
Copper-Dissolved	μg/L	1	Metals-022	<1	5	9	9	0	86	87		
Lead-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	87	80		
Nickel-Dissolved	μg/L	1	Metals-022	<1	5	2	2	0	85	87		
Selenium-Dissolved	μg/L	1	Metals-022	<1	5	<1	<1	0	85	90		
Zinc-Dissolved	μg/L	1	Metals-022	<1	5	3	3	0	82	88		

QUALITY CONTRO	OL: Metals ir	Waters ·	- Acid extractable			Du	olicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	384638-2	
Date prepared	-			02/07/2025	1	02/07/2025	02/07/2025		02/07/2025	02/07/2025	
Date analysed	-			02/07/2025	1	02/07/2025	02/07/2025		02/07/2025	02/07/2025	
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.60	0.60	0	112	111	

QUALITY COI	NTROL: Mis	cellaneou	is Inorganics			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]	
Date prepared	-			01/07/2025	1	01/07/2025	01/07/2025		01/07/2025		
Date analysed	-			01/07/2025	1	01/07/2025	01/07/2025		01/07/2025		
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	2.4	2.4	0	107		
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	100		
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.006	<0.005	18	90		
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.008	0.007	13	93		
TKN in water	mg/L	0.1	Inorg-062	<0.1	4	10	[NT]		[NT]		
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	4	10	11	10	98		
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]		[NT]	[NT]	101		

QUALITY COI	NTROL: Mis	cellaneou	s Inorganics			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	4	01/07/2025	01/07/2025		[NT]	
Date analysed	-			[NT]	4	01/07/2025	01/07/2025		[NT]	
Ammonia as N in water	mg/L	0.005	Inorg-057	[NT]	4	0.008	[NT]		[NT]	
Nitrite as N in water	mg/L	0.005	Inorg-055	[NT]	4	<0.01	[NT]		[NT]	
Nitrate as N in water	mg/L	0.005	Inorg-055	[NT]	4	<0.01	[NT]		[NT]	
NOx as N in water	mg/L	0.005	Inorg-055	[NT]	4	<0.01	[NT]		[NT]	

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QUALITY COI	NTROL: Mis	cellaneou	s Inorganics			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]	
Date prepared	-			30/06/2025	1	30/06/2025	30/06/2025		30/06/2025		
Date analysed	-			30/06/2025	1	30/06/2025	30/06/2025		30/06/2025		
Total Suspended Solids	mg/L	5	Ext-073_J	<5	[NT]			[NT]	113		
рН	pH Units		Ext-073_F	[NT]	1	7.1	7.1	0	95		
Electrical Conductivity	μS/cm	1	Ext-073_G	[NT]	1	1100	1100	0	93		

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Report Comments

MISC_INORG: Nitrate as N in water, NOx as N in water, Nitrite as N in water PQL has been raised due to matrix interferences from analytes (other than those being tested) in the sample/s. Samples were diluted and reanalysed however same results were achieved.

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CHAIN OF CUSTODY - Client



ENVIROLAB GROUP

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Company:	ļ		RCA Australia		RCA Reference Numbe	r (i.e. re	port title)						ENVIROLAB GROUP					
Contact person:			Fiona Brooker				135	89a				1		EIA.	V IRUL!	AD GROUP		
Project Mgr:			Fiona Brooker		PO No. (if applicable):				No	t applicable		1						
iampler:			Anh Hoang		Envirolab Quote No. :					BM8	-	1						
ddress:					Date results required:				OTZ)	_	Sydnoy Lab Envirolab Comicas						
		92 Hill S	St Carrington, NSW 2294	.									Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067					
hone:	02 4902 9200	Mob:	0410 230	644								02 9	9910	6200	sydne	y@envirolab.com.au		
mail results to: mail invoice to:	<u>administr</u>	rator@rc	a.com.au + enviro@r	ca.com.au	Lab comments:								-					
	. Sai	mple info	rmation			, Ç :			\$.	Tests Requir	ed	;	fic	* · · · ·		Comments		
Envirolab Sample ID	Client Sampl	le ID	Date sampled	Type of sample	# Containers	E01580ilidalisuspended@	E00705-NH3, E00815-NO2, E00790-NO3, E00850-NOx, E01090-Total P)	E010300 - Nutrient Suite (NH3, NO2, NO3, NOx, TKN (calc), Total N, Total P)	E07290 and E07220 TRH C6- C40	,, E		E011408/mill	E01150 - Electrical Conductivity		க் ப	Provide as much information about the sample as you can Envirolab Servic 12 Ashley Chatswood NSW 2		
	GW1		30/06/2025	Water	4		×					X	× × I v No.2		ob No: 38 4 6 58			
i	GW3		30/06/2025	Water	4		х				 	×	х		<u></u>	OD NO. COPINO		
3	. LP		30/06/2025	Water	4	х		х			1	×	х		x D	ate Received: 1712		
9	WL		30/06/2025	Water	4	х		×	<u> </u>		1	×	x	1	v Ti	rhe Received 9. (2)		
5	Sed-2		30/06/2025	Water	9	х		х	х	×	х	×	×		× R	eceived By:		
6	SW2		30/06/2025	Water	9	х		х	×	х	х	х	х		× C	emp: Gool/Ambient		
7	Sed-1		30/06/2025	Water	9	х		х	х	х	х	х	х		х s,	eceived By A VICO		
	SW1		39/06/2025	Water	9	x		x	X	Х	x_	X	_х_		х	remp: Cool/Ambient		
B	QAQGIZO	26	30/06/2025	Water	4	х		×				х	х		х	Seceived By:		
															_	Time Received:		
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		_		Total	96 A7	¥ 6	2	×6	42	43	43	80.	83		7 Por	o 0188 (20) :Aq		
elinquished by (cor				mpany):	Er	Viso	lab				-	. 1	ab use	only: 290	TO BE Chatswood NSW St			
int Name:			Hoang	Santbah Joseph			Job Number	384153·8			Cooling: Second		Ice / Ice Pack / None					
ate & Time:	· · · · · ·	30.6.7	13:00	Date & Time:		30/6/28 13:15				Temperature	6	Security Seal:			Intact / Broken / Not Used			
gnature:		a	hm	Signature:	'		R	-	,	TAT Req:	SAME	DAY /	1/2	/3/4	/ STD	1		
						-										Page No: 1 of 1		



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details	
Your reference	13589a
Envirolab Reference	384638
Date Sample Received	01/07/2025
Date Instructions Received	01/07/2025
Date Results Expected to be Reported	08/07/2025

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	8 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	6
Cooling Method	None
Sampling Date Provided	YES

Comments	
Samples arrived in Syd lab 01/07/2025 @0930, 6 degree C.	

Please direct any queries to:

Aileen Hie	Jacinta Hurst					
Phone: 02 9910 6200	Phone: 02 9910 6200					
Fax: 02 9910 6201	Fax: 02 9910 6201					
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au					

Analysis Underway, details on the following page:



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Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved	Metals in Waters -Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1				✓	✓	✓	✓	✓				✓
GW3				✓	✓	✓	✓	✓				✓
LP				✓	✓	✓	✓	✓	✓	✓		✓
WL				✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA062025				✓	✓	✓	✓	✓	✓	✓		✓

The '\sqrt{'} indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.