CH475-D230396



Inleel William
JK Williams Pty Ltd
39-53 Jack Williams Drive,
Penrith NSW 2750

iwilliam@jkw.com.au

Re: Dust Monitoring November 2023 - Westlink

Dear Sir.

Compliance Health & Environmental Consulting (CHEC) were engaged by JK Williams Pty Ltd to undertake monthly Depositional Dust Monitoring for the site located at 63 Abbotts Road, Kemps Creek, identified as Lot 11 in DP252503.

Six Dust Deposition Gauges (DDG1-DDG6) were installed at representative locations along the Site boundary nearest to sensitive receptors, in accordance with the guidelines provided by AS/NZS 3580.1.1:2016. Refer to **Figure 1**-Site layout with sample locations.

The gauges were constructed in accordance with AS/NZ3580.1.1:2016-Methods for sampling and analysis of ambient air. Method 10.1: Determination of particulate matter-deposited matter-Gravimetric method.

A 150mm diameter glass funnel was placed within a 4L glass collection bottle using a rubber stopper with a drain. Each DDG was then placed within a PVC casing for protection and fixed to a star picket on site. Bird protection was constructed on the PVC pipe to prevent birds perching on the funnel. Gauges were placed 2m above ground level. This dust report details results from the 31st October to 1st December 2023.

Dust is assessed as insoluble solids as defined by AS 3580.10.1–1991 (AM-19) and is made up of both combustible and non-combustible materials. The obligation to monitor dust relates to the primary activity, being soil disturbance as a result of earthworks, therefore, the non-combustible and dissolved component (generally recognised as mineral salts) are the primary measurements of concern to determine compliance.

The sampling method does not provide real time data, but provides an estimate of the mean surface concentration of deposited matter settling from the air over a period of one month.

The gauges were analysed at a NATA certified laboratory where the collected sediment was weighed and dried to measure particles in the air, less the combustible matter to give total non-combustible material collected in the deposition gauges. The resultant data represents the potential exposure to dust for those receptors, being local residences.

The depositional dust monitoring criteria are as follows:

- Annual average total deposited dust level is 4g/m²/month.
- Maximum monthly increase in deposited dust level is 2g/m²/month

Table 1 indicates that the highest recorded dust concentration was observed at DDG6, having a total solids concentration of $7.3g/m^2$ that included $6.6g/m^2$ of insoluble solids. The insoluble solids contained $6.4g/m^2$ of combustible solids, and $0.2g/m^2$ of noncombustible solids (mineral dust). Refer to **Attachment 1** – NATA Certified Results.



Table 1 - November Dust Deposition Analysis (g/m²/month)

Gauge	Insoluble	Combustible	Non-Combustible	Soluble	Total
DDG1	3.2	3	0.2	3.7	6.9
DDG4	4.3	4.1	0.2	1.8	6.1
DDG5	2.1	1.9	0.2	2.4	4.4
DDG6	6.6	6.4	0.2	0.7	7.3

Table 2 indicates that significant reductions of $-13.7g/m^2$ and $-6.4g/m^2$ of insoluble solids were observed at DDG4 and DDG6 respectively. Minor increases of $1g/m^2$ and $0.6g/m^2$ were observed at DDG1 and DDG5 respectively, though were compliant with the monthly increase criteria of $2g/m^2$.

Rolling averages of insoluble solids and non-combustible solids concentrations within DDG4 and DDG6 exceeded the annual average criteria of 4g/m²/month.

Table 2 - Monthly Changes and Rolling Averages (g/m²/month)

	Total Dust (AS	3580.10.1-2016)	Non-Combustible Solids		
Gauge	Monthly ∆	Rolling Avg	Monthly ∆	Rolling Avg	
DDG1	1	2.1	-1.8	1.2	
DDG4	-13.7	7.2	-16.8	5.9	
DDG5	0.5	1.4	1.3	0.9	
DDG6	-6.4	6	-11.8	4.3	
Criteria	2	4			

The significant concentrations of dust observed last month have appeared to reduced significantly, though it is noted that individual concentrations at DDG4 and DDG6 still exceeded the criteria of 4g/m². As such, it is recommended that dust suppression activities continue in order to further reduce dust concentrations.

The prevailing wind for this month was from the west north-west as shown on **Figure 2**. The average wind speed for the month was 3.2km/hr with a maximum of 35.4km/h occurring from the east south-east. The prevailing winds suggests that the associated exceedances likely attributed by onsite dust generative activities.

The reduction in concentrations this month is a positive sign, though dust suppression should continue to be a priority to further reduce concentrations in the coming months.

If any further information is required regarding this matter, please feel free to contact the undersigned during business hours.

Regards,

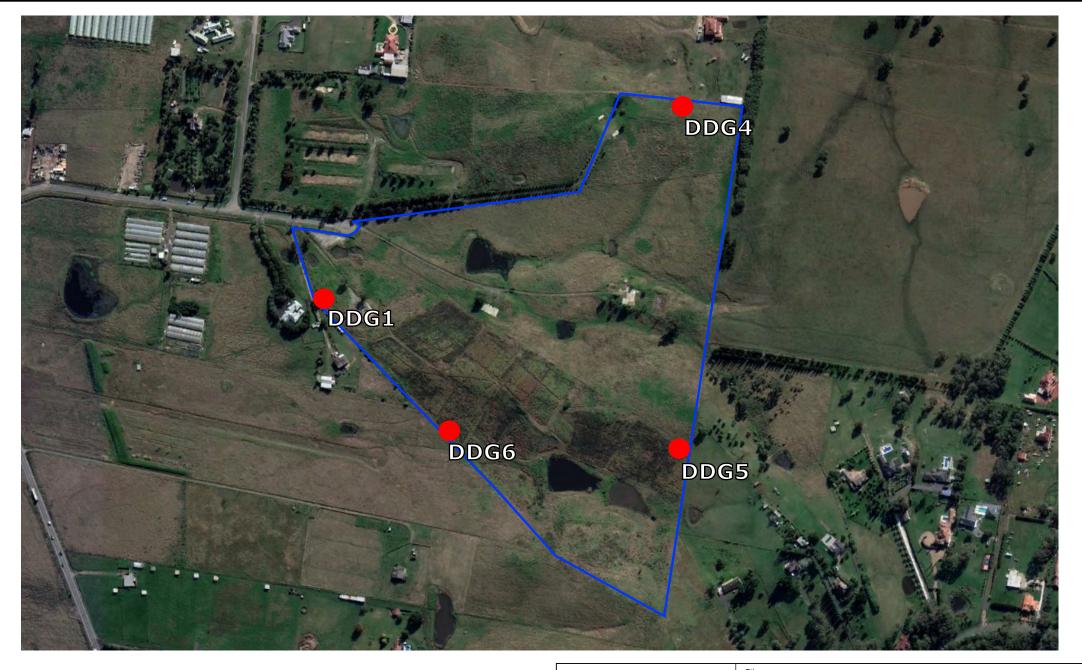
Jayden Gross

Environmental Consultant

Compliance Health & Environmental Consulting Pty Ltd



Figure 1 - Site Layout



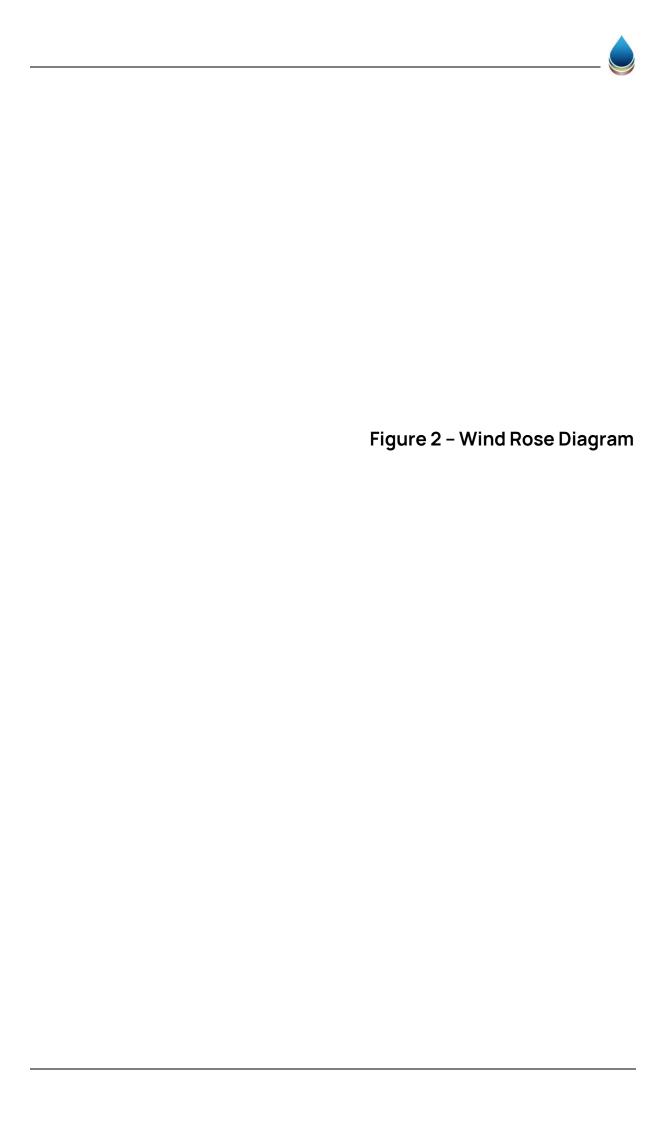


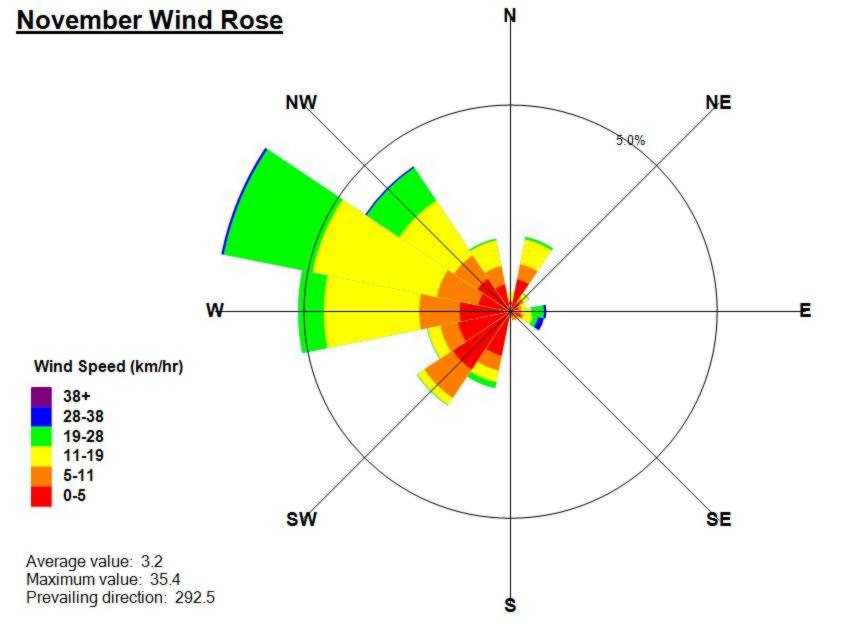
Dust Deposition Gauge Location

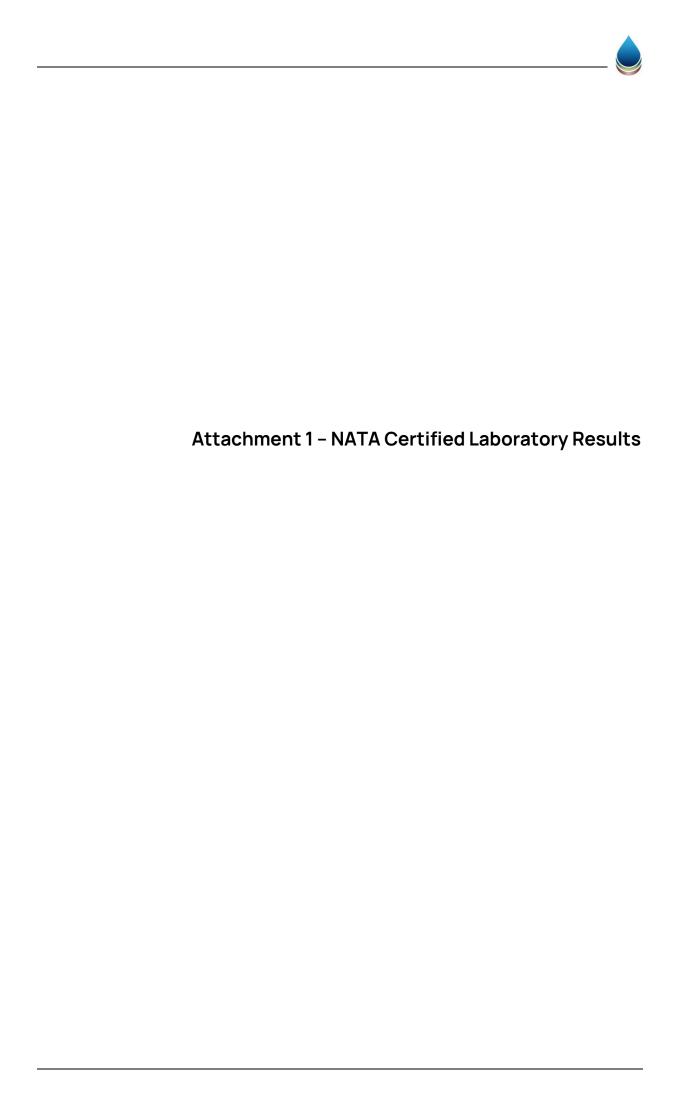
Site Area



Dust Deposition Gauge Locations							
Site Address 63 Abbotts Road, Kemps Creek	Project No. CH1475	rigure ivo.	Date 23/08/2023				
JK Williams Pty Ltd	Scale NTS	Compiled CV	Revision Rev. 1				







12:49 PM W.A o with / Dangerous Goods Hazard Warning Required Turnaround Time (TAT)
Default will be 5 days if not ticked. ♦Surcharge will apply Overnight (reporting by 9am)+ □ Same day ◆
 □ 1 day ◆
 □ 2 days ◆
 □ 3 onl-30/10 Sample Comments 11-1/12 +61 3 8564 5000 EnviroSampleVic@eurofins.com 5 days (Standard) Temperature Time Other (Asbestos AS4964, WA Guidelines) Jar (Glass or HDPE) Containers
Change container type & size if necessary 0 500mL PFAS Bottle Isiv AOV Jm04 200mL Amber Glass Handed over by Email for Results Email for Invoice Time Date I Sem L Plastic ission of samples to the laboratory will be deemed as acceptance in Eurofins | Environment Testing Standard Terms and Conditions unless agreed other Perth Laboratory
46-48 Banksia Road, Welshpool, WA 6106
-61 8 6253 4444 EnviroSamplet/A@eurofins.com 500mL Plastic Project Manager) - 6-51 Signature +617 3902 4500 EnviroSampleQLD@e.irofins.com Unit 1/21 Smallwood Place, Muranie, QLD 4172 EDD Format ESdat, EQuIS etc 7.605 Signature Signature Lemps Creek SYD | BNE | MEL | PER | ADL | NTL | DRW SYD | BINE | MEL | PER | ADL | NTL | DRW Sydney Laboratory 179 Magowar Road, Girraween, NSW 2145 +61 2 9900 B400 EmiroSampieNSW@eurofirs.com ☐ Postal Project Name Project Ne Hand Delivered 892VIbnA Teifia" o' leioT" viicoqs sessiq "batsauper ore sleiam eratiw Griicing 3TIUS ipsulte of basu ad taum aboo 3TIUS. Total Counts Sampled Date/Time dd/mm/yy ht:mm CHAIN OF CUSTODY RECORD

Eurafine | Environment Testing ABN 50 005 005 005 521 2 JOURSYCHEN Eurofics Environment Teating Australia Pty Ltd EnviroSalos@eurofins.com J 940 Received By Received By DD 65 bb6 k DOGA Courier (# Client Sample ID DUGI Laboratory Use Only Method of Shipment Special Directions Quote ID Ne Purchase Order Сотрапу Contact Name Phone Ne Address 문

6 Monterey Road Dandenong South VIC 3175

Melbourne Laboratory

Brisbane Laboratory



Environment Testing

Compliance Health & Environmental Consulting P/L PO Box 275 Gosford NSW 2250





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: RESULTS - ALL SRAS HERE ONLY - NO INVOICES

Report 1049956-A
Project name KEMPS CREEK

Project ID 1475

Received Date Dec 01, 2023

Client Sample ID			DDG1	DDG4	DDG5	DDG6
Sample Matrix			Dust Deposition	Dust Deposition	Dust Deposition	Dust Deposition
Eurofins Sample No.			S23- De0003144	S23- De0003145	S23- De0003146	S23- De0003147
Date Sampled			Dec 01, 2023	Dec 01, 2023	Dec 01, 2023	Dec 01, 2023
Test/Reference	LOR	Unit				
Dust Deposition						
Combustible Solids	0.1	g/m2/mth	3.0	4.1	1.9	6.4
Soluble Solids	0.1	g/m2/mth	3.7	1.8	2.4	0.7
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	6.9	6.1	4.4	7.3
Volume (total)*	0.1	mL	1400	1400	1300	1400
Ash*	0.1	g/m2/mth	0.2	0.2	0.2	0.2
Insoluble Solids	0.1	g/m2/mth	3.2	4.3	2.1	6.6



Environment Testing

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

DescriptionTesting SiteExtractedHolding TimeDust DepositionSydneyDec 02, 20235 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air



email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Company Name:

Project Name:

Project ID:

Address:

web: www.eurofins.com.au

Site# 25403 Compliance Health & Environmental Consulting P/L

PO Box 275

1475

Gosford NSW 2250

Site# 1254

KEMPS CREEK

Dust Deposition

1049956 02 4304 0091

Report #: Phone: Fax:

Order No.:

IANZ# 1402

Dec 1, 2023 12:49 PM

Due: Dec 8, 2023 Priority: 5 Day

Contact Name: RESULTS - ALL SRAS HERE

Eurofins Analytical Services Manager: Bonnie Pu

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	DDG1	Dec 01, 2023		Dust Deposition	S23-De0003144	Х	
2	DDG4	Dec 01, 2023		Dust Deposition	S23-De0003145	Х	
3	DDG5	Dec 01, 2023		Dust Deposition	S23-De0003146	Χ	
4	DDG6	Dec 01, 2023		Dust Deposition	S23-De0003147	Х	
Test Counts							



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request
- 2. All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- 4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- 8. Samples were analysed on an 'as received' basis.
- 9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
- 10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is 7 days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ppm: parts per million μg/L: micrograms per litre ppb: parts per billion %: Percentage

org/100 mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Colour: Pt-Co Units CFU: Colony forming unit

Terms

APHA American Public Health Association CEC Cation Exchange Capacity COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report CRM Certified Reference Material (ISO17034) - reported as percent recovery.

Dry Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

LOR Limit of Reporting.

LCS Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.

RPD Relative Percent Difference between two Duplicate pieces of analysis SPIKE Addition of the analyte to the sample and reported as percentage recovery

SRA Sample Receipt Advice

The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria Surr - Surrogate

Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. TRTO

TCI P Toxicity Characteristic Leaching Procedure TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 5.4

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50% Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 - 150%, VOC recoveries 70 - 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

- 1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data



Environment Testing

Comments

Sample Integrity

 Custody Seals Intact (if used)
 N/A

 Attempt to Chill was evident
 N/A

 Sample correctly preserved
 Yes

 Appropriate sample containers have been used
 Yes

 Sample containers for volatile analysis received with minimal headspace
 Yes

 Samples received within HoldingTime
 Yes

 Some samples have been subcontracted
 No

Authorised by:

Bonnie Pu Analytical Services Manager
Dilani Samarakoon Senior Analyst-Inorganic

Glenn Jackson Managing Director

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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