CH475-D230312



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

iwilliam@jkw.com.au

Re: Dust Monitoring September 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 29th of August 2023 to the 29th of September 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 shows that the highest recorded dust concentration was observed at DDG4, having a total solids concentration of 8.8g/m² that included 5.5g/m² of insoluble solids. The insoluble solids contained 0.4g/m² of combustible solids, and 5.2g/m² of non-combustible solids (mineral dust). Refer to **Attachment 1** – NATA Certified Results.

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

Gauge	Insoluble	Combustible	Non-Combustible	Soluble	Total
DDG1	2	0.1	1.9	0.7	2.6
DDG2	1.3	0.1	1.2	2.3	3.6
DDG3	4.3	0.2	4.1	1.5	5.7
DDG4	5.5	0.4	5.2	3.3	8.8
DDG5	1.4	0.1	1.3	1.1	2.5
DDG6	4.7	0.1	4.6	1	5.7

Table 2 indicates that DDG3, DDG4, & DDG6 exceeded the monthly change criteria of 2g/m² for insoluble solids and non-combustible solids, with a maximum exceedance of 4.4g/m²/month at DDG4.

Rolling averages for both insoluble solids and non-combustible solids remains compliant with the annual average criteria of $4g/m^2/m$ onth.

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

	Total Dust (AS3580.10.1-2016)		Non-Combustible Solids		
Gauge	Monthly ∆	Rolling Avg	Monthly ∆	Rolling Avg	
DDG1	0.9	1.6	1.1	1.4	
DDG2	0.3	1.2	0.4	1	
DDG3	3.3	2.7	3.2	2.5	
DDG4	4.4	3.3	4.2	2.1	
DDG5	0.6	1.1	0.7	1	
DDG6	4.4	2.5	4.4	2.4	
Criteria	2	4			

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 2.1km/hr with a maximum of 29km/h occurring from the south-east.

The prevailing winds suggests that the associated exceedances within DDG3 & DDG4 are potentially attributed by to offsite dust generative activities. In saying this, the observed exceedances within DDG6 are suggested to be due to onsite dust generative activities.

Based on the available data, dust levels for the month of October are considered compliant for The Westlink development, Kemps Creek, though the increases at DDG3, DD4 and DDG6 will require some investigation, and should be addressed in the report for November.

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

Regards,

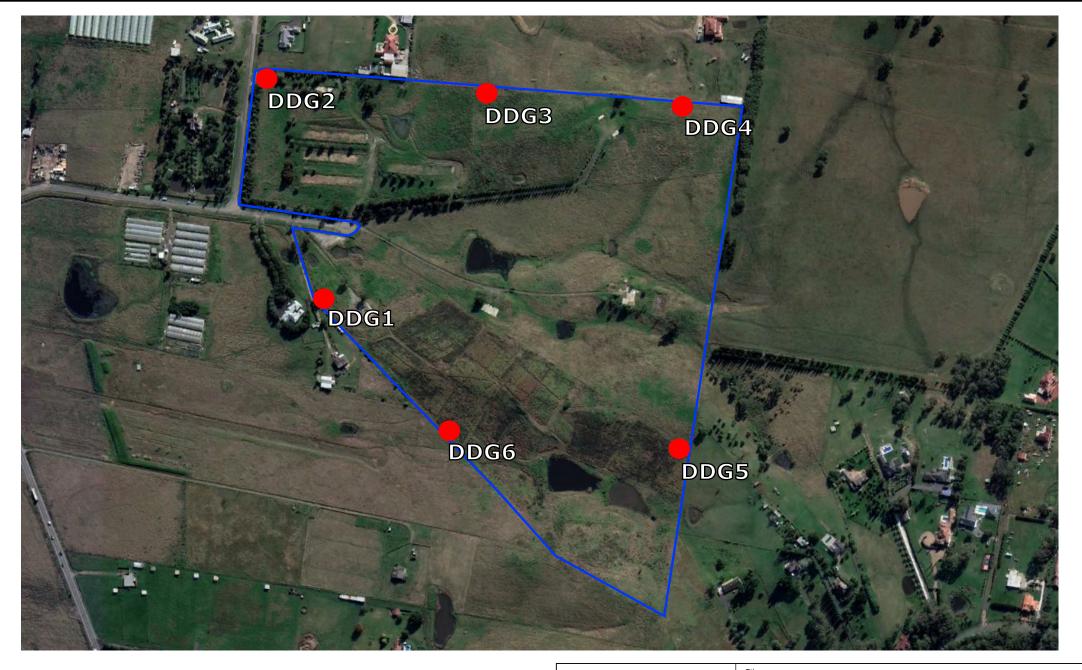


Environmental Consultant

Compliance Health & Environmental Consulting Pty Ltd



Figure 1 - Site Layout





Dust Deposition Gauge Location

Site Area



Site Address

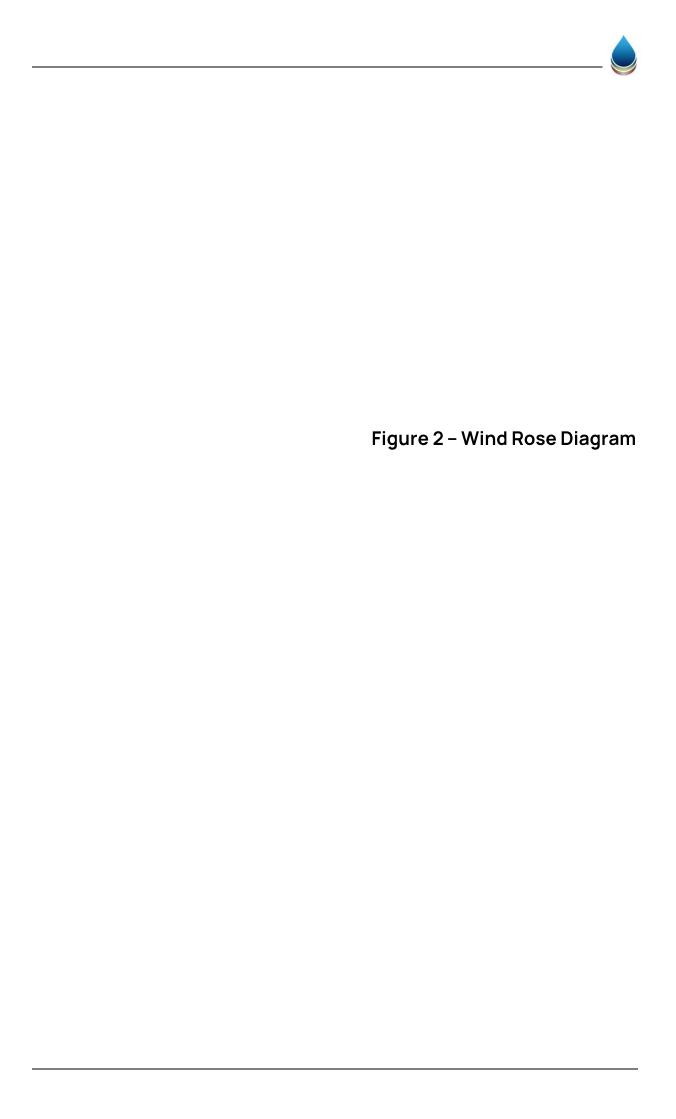
JK Williams Pty Ltd

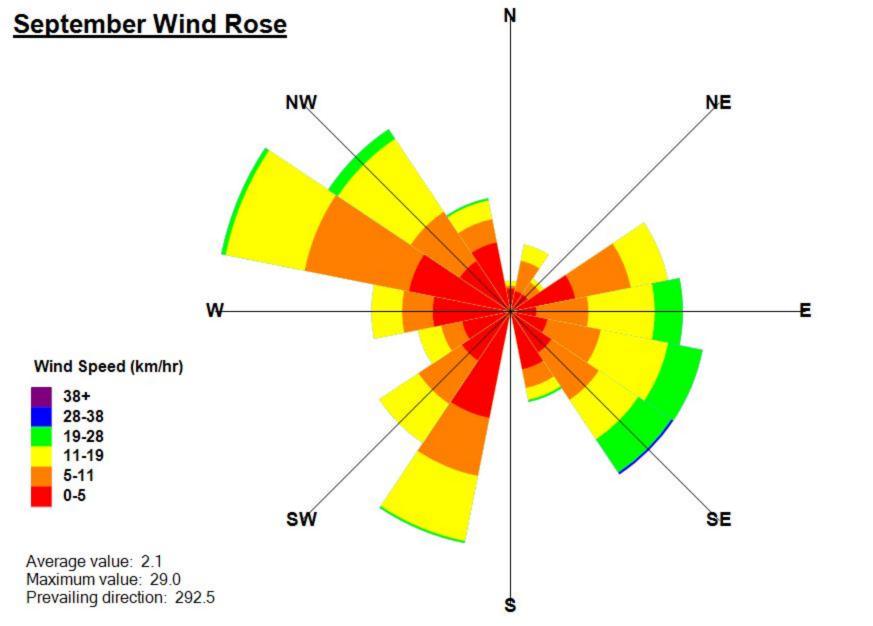
Dust Deposition Gauge Locations					
Abbotts Road, Kemps Creek	Project No. CH1475	Figure No.	Date 23/08/20		
	Scale	Compiled	Revision		

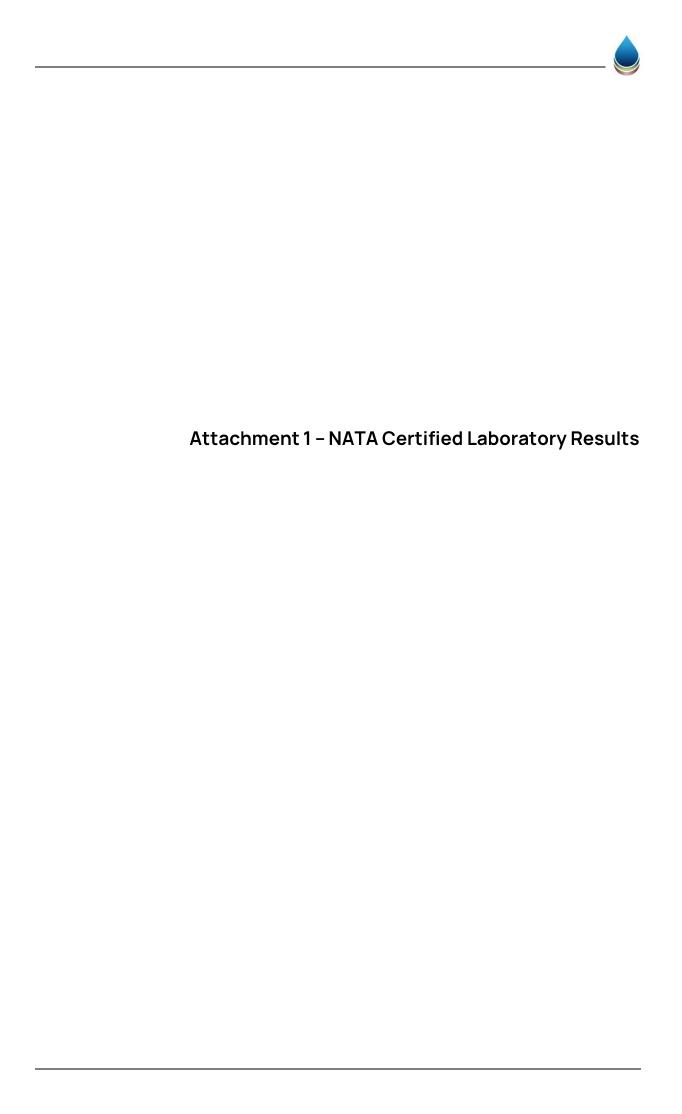
NTS

 CV

Rev. 1







20 65 en Required Turnaround Time (TAT)
Default will be 5 days if not licked. Dangerous Goods Hazard Warning Surcharge will apply 1 day ◆ ☐ Overnight (reporting by 9am)◆ IN 29/08 Sample Comments DUT 29/09 13 8564 5000 EnviroSampleVic@eurofins.com 6 Monterey Road Dandenong South VIC 3175 5 days (Standard) ☐ Same day ◆ 2 days Temperature Melbourne Laboratory Other Other (Asbestos AS4964, WA Guidelines) 8 5 Jar (Glass or HDPE) Containers container type & size if necess 0360 **200mL PFAS Bottle** 40mL VOA vial 200mL Amber Glass Email for Results Handed over by Email for Invoice 125mL Plastic Time 08 9251 9600 EnviroSampleWA@eurofins.com 250mL Plastic Unit 2 91 Leach Highway Kewdale WA. 6105 500mL Plastic 0/12 3 Date Date 07 3902 4600 EnviroSampleQLD@eurofins.com Signature Unit 1 21 Smallwood Place Murarrie QLD 4172 Project Manager ESdat, EQuIS etc c vinart Signature Man JKW Oust Signature Sydney Laborstory
Unt. F3 Bid. F16 Mars Road Lane Cove West NSW 2086 SYD | BNE | MEL | PER | ADL | NTL | DRW SYD | BNE | MEL | PER | ADL | NTL | DRW 02 9900 8400 EnviroSampleNSW@eurofins.com 1475 Name Postal Deposition X Project Name Project Ne eaynalyses led, please specify 'Total' or 'Fillered'. (In altract SUITE pricing. Hand Delivered 3 Total Counts CHAIN OF CUSTODY RECORD
Eurofins | mgt ABN 50 005 066 521 (Compress) Sampled Date/Time CHEC Received By Received By Client Sample ID ethod of Shipment | | Courier (# 0092 D094 20 a 6 Shaa Laboratory Use Only Special Directions Purchase Order Contact Name Quote ID Ne Phone Ne Address 步

Perth Laboratory

Brisbane Laboratory

Zeamed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request 1031239

Report No

Tile Tile

Submission of samples to the laboratory will be

Eurofias Environment Testing Australia Pty Ltd trading as Eurofins | mgt



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

Report1031239-AProject nameJKW DUSTProject ID1475

Received Date Oct 03, 2023

Client Sample ID			DDG1	DDG2	DDG3	DDG4
Sample Matrix			Dust Deposition	Dust Deposition	Dust Deposition	Dust Deposition
Eurofins Sample No.			S23- Oc0004738	S23- Oc0004739	S23- Oc0004740	S23- Oc0004741
Date Sampled			Sep 29, 2023	Sep 29, 2023	Sep 29, 2023	Sep 29, 2023
Test/Reference	LOR	Unit				
Dust Deposition						
Combustible Solids	0.1	g/m2/mth	0.1	0.1	0.2	0.4
Soluble Solids	0.1	g/m2/mth	0.7	2.3	1.5	3.3
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	2.6	3.6	5.7	8.8
Volume (total)*	0.1	mL	1300	1200	1100	1100
Ash*	0.1	g/m2/mth	1.9	1.2	4.1	5.2
Insoluble Solids	0.1	g/m2/mth	2.0	1.3	4.3	5.5

Client Sample ID			DDG5 Dust	DDG6 Dust
Sample Matrix			Deposition S23-	Deposition S23-
Eurofins Sample No.			Oc0004742	Oc0004743
Date Sampled			Sep 29, 2023	Sep 29, 2023
Test/Reference	LOR	Unit		
Dust Deposition				
Combustible Solids	0.1	g/m2/mth	0.1	0.1
Soluble Solids	0.1	g/m2/mth	1.1	1.0
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	2.5	5.7
Volume (total)*	0.1	mL	1400	1500
Ash*	0.1	g/m2/mth	1.3	4.6
Insoluble Solids	0.1	g/m2/mth	1.4	4.7



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 DepositionSydneyOct 04, 20235 Days

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

Report Number: 1031239-A



web: www.eurofins.com.au email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

NATA# 1261

Site# 25403

ABN: 50 005 085 521

NATA# 1261

Site# 1254

Melbourne Geelong 6 Monterey Road 19/8 Lewalan Street Dandenong South Grovedale VIC 3175 VIC 3216

Sydney 179 Magowar Road Girraween NSW 2145

NATA# 1261

Site# 18217

Canberra Mitchell ACT 2911

NATA# 1261

Site# 25466

Dust Deposition

Brisbane Newcastle Unit 1.2 Dacre Street 1/21 Smallwood Place 1/2 Frost Drive Mayfield West NSW 2304 Murarrie QLD 4172 Tel: +61 2 4968 8448 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 2 9900 8400 Tel: +61 2 6113 8091 Tel: +61 7 3902 4600 NATA# 1261 NATA# 1261 Site# 25079 & 25289 Site# 20794

ABN: 91 05 0159 898

46-48 Banksia Road

Tel: +61 8 6253 4444

Perth

Welshpool

WA 6106

NATA# 2377

Site# 2370

NZBN: 9429046024954

Auckland Christchurch Tauranga 35 O'Rorke Road 43 Detroit Drive 1277 Cameron Road. Penrose, Rolleston. Gate Pa. Auckland 1061 Christchurch 7675 Tauranga 3112 Tel: +64 9 526 4551 Tel: +64 3 343 5201 Tel: +64 9 525 0568 IANZ# 1327 IANZ# 1290 IANZ# 1402

Company Name:

Project Name:

Project ID:

Address:

Compliance Health & Environmental Consulting P/L

PO Box 275

Gosford

NSW 2250

JKW DUST

1475

Cudnou Laboratoru NATA # 4004 Cita # 40047

Order No.: Report #:

1031239 02 4304 0091

Phone: Fax:

Received: Oct 3, 2023 2:21 PM

Due: Oct 10, 2023 Priority: 5 Dav

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	Sep 29, 2023		Dust Deposition	S23-Oc0004738	х	
2	DDG2	Sep 29, 2023		Dust Deposition	S23-Oc0004739	х	
3	DDG3	Sep 29, 2023		Dust Deposition	S23-Oc0004740	х	
4	DDG4	Sep 29, 2023		Dust Deposition	S23-Oc0004741	х	
5	DDG5	Sep 29, 2023		Dust Deposition	S23-Oc0004742	х	
6	DDG6	Sep 29, 2023		Dust Deposition	S23-Oc0004743	х	
Test Counts							



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. This report replaces any interim results previously issued.

Holding Times

Please refer to '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 prior to sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling, therefore compliance to 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 then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre µg/L: micrograms per litre

ppm: parts per million **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

CFU: Colony forming unit

Terms

APHA American Public Health Association

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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery.

TBTO 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.

TCLP 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 be used as a guide only 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%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 1. Where a result is reported as a 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 is 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.

Report Number: 1031239-A



Environment Testing

Comments

Sample Integrity

Custody Seals Intact (if used)

Attempt to Chill was evident

N/A

Sample correctly preserved

Appropriate sample containers have been used

Yes

Sample containers for volatile analysis received with minimal headspace

Samples received within HoldingTime

Yes

Some samples have been subcontracted

No

Authorised by:

Adam Bateup 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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Report Number: 1031239-A