CH475-D230362



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

iwilliam@jkw.com.au

Re: Dust Monitoring October 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 September 2023 to 31th of October 2023.

DDGs 2 & 3 were removed at the end of this period, following the completion of works and handing over the Lot within the dust gauges proximity. With such, no further monthly dust analysis of DDGs 2 & 3 will continue following this report.

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 19g/m² that included 18g/m² of insoluble solids. The insoluble solids contained 1.3g/m² of combustible solids, and 17g/m² of non-combustible solids (mineral dust). Refer to **Attachment 1** – NATA Certified Results.

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

Gauge	Insoluble	Combustible	Non-Combustible	Soluble	Total
DDG1	2.2	0.2	2	1.9	4.2
DDG2	5	0.3	4.6	2.5	7.4
DDG3	11	0.5	11	2.9	14
DDG4	18	1.3	17	0.5	19
DDG5	1.6	0.2	1.5	2.2	3.8
DDG6	13	0.5	12	2.3	15

Table 2 indicates that DDG2, DDG3, DDG4, & DDG6 exceeded the monthly change criteria of 2g/m² for insoluble solids and non-combustible solids, with a significant maximum exceedance of 12.5g/m²/month at DDG4.

Rolling averages insoluble solids concentrations within DDG3, DDG4, & DDG6 also exceeded the annual average criteria of 4g/m²/month with a maximum rolling average of 8.2g/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	0.2	1.8	0.1	1.6	
DDG2	3.7	2.4	3.4	2.2	
DDG3	6.7	5.4	6.9	5.3	
DDG4	12.5	8.2	11.8	7.7	
DDG5	0.2	1.3	0.2	1.1	
DDG6	8.3	6.0	7.4	5.6	
Criteria	2	4			

The prevailing wind for this month was from the south south-west as shown on **Figure 2**. The average wind speed for the month was 1.8km/hr with a maximum of 32.2km/h occurring from the south-east. The prevailing winds suggests that the associated exceedances within DDG2, DDG3 & DDG4 are likely attributed by onsite dust generative activities.

Based on the available data, dust levels for the month of October are not considered compliant for The Westlink development, Kemps Creek. The monthly increases at DDG2 DDG3, DDG4 and DDG6 will require some investigation, and should be addressed in the report for November. Following such, we anticipate the exceeding rolling averages at DDG3, DDG4 & DDG5

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

Regards,

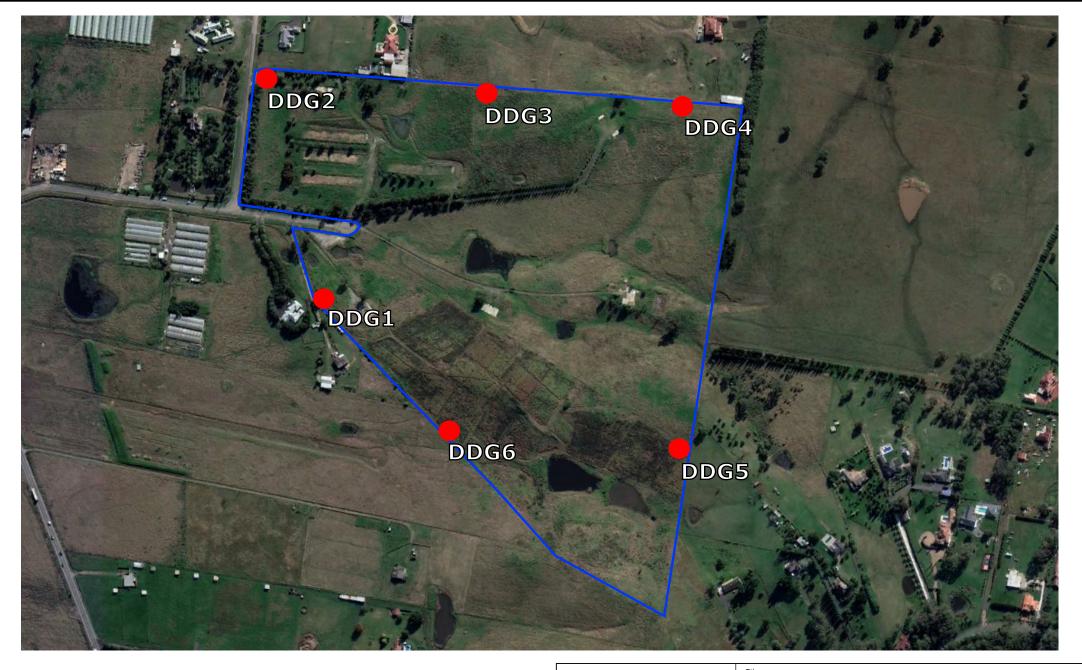


Environmental Consultant

Compliance Health & Environmental Consulting Pty Ltd



Figure 1 - Site Layout





Dust Deposition Gauge Location

Site Area



Site Address

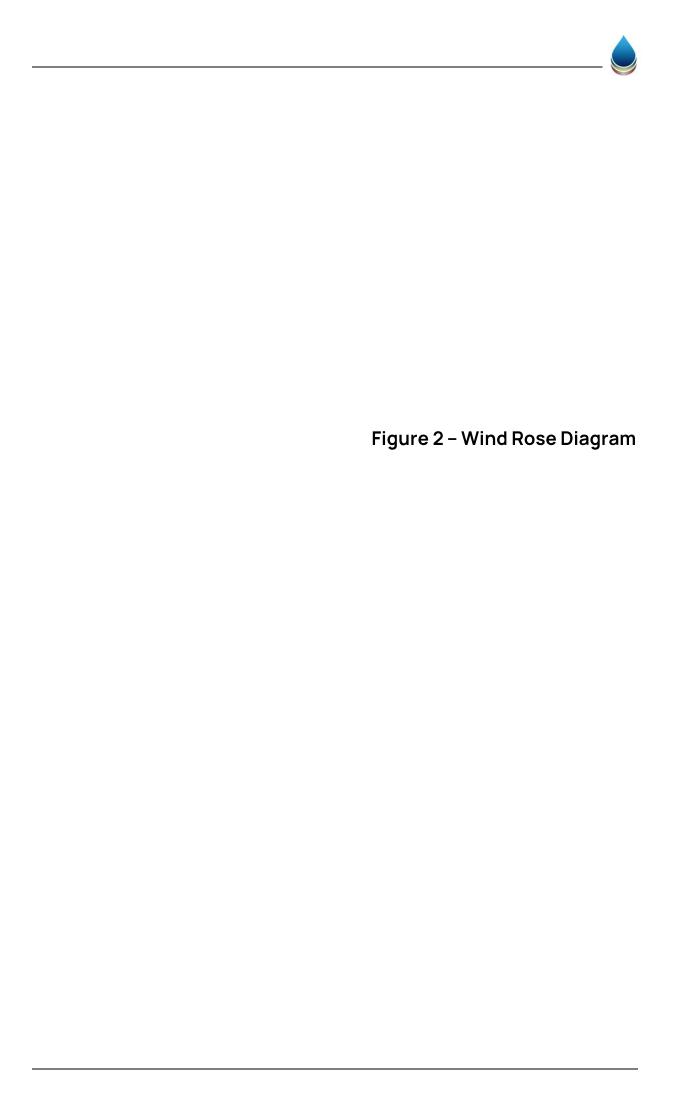
JK Williams Pty Ltd

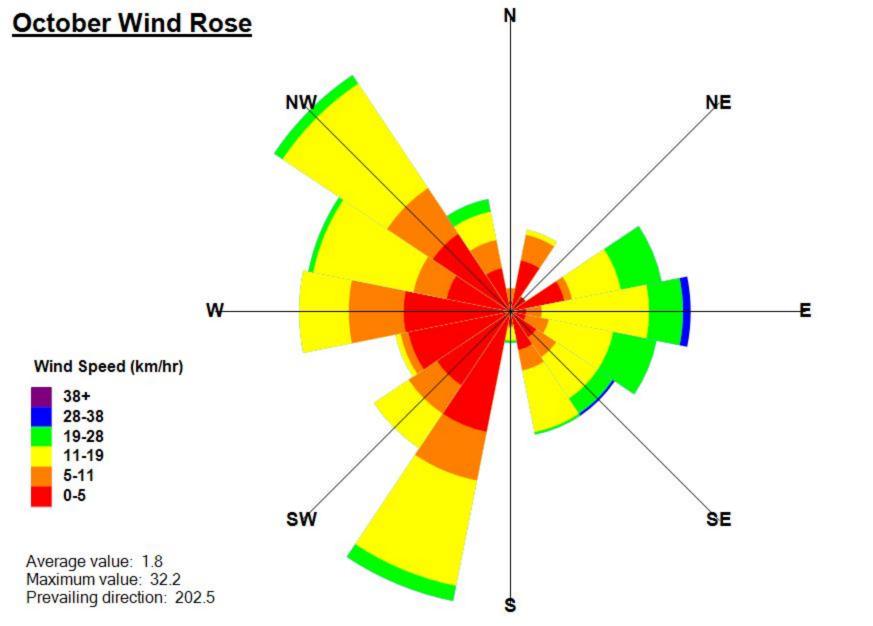
Dust Deposition	n Gauge Lo	cations	
Abbotts Road, Kemps Creek	Project No. CH1475	Figure No.	Date 23/08/20
	Scale	Compiled	Revision

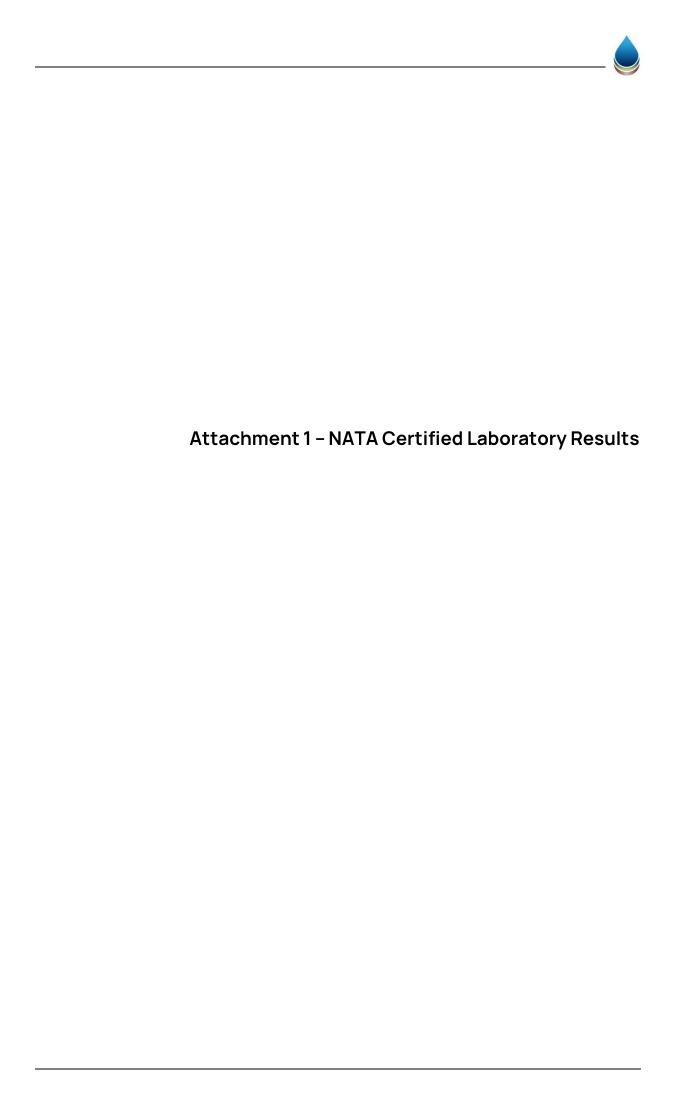
NTS

 CV

Rev. 1







CHAIN OF CUSTODY RECORD

Sydney Laboratory
Unit 73 Bld.F 16 Mars Road Lane Cove West NSW 2266
02 5900 6400 EnviroSampleNSW@eurofins.com

07 3902 4600 EnviroSampleQLD@eurofins.com Brisbane Laboratory

Unit 1 21 Smaliwood Place Murarrie QLD 4172

Unit 2 91 Leach Highway Kewdale WA 6105 08 9251 9600 EnviroSampleWA@eurofins.bom Perth Laboratory

3

roject Manager

1475

Project Ne

CHEC

EDD Format ESdat, EQuIS etc

JHW Kemps

Project Name

Melbourne Laboratory
6 Monterey Road Denderong South VIC 3175
63 8864 5000 EnviroSample Virogeurofins.com

S

Handed over by

Overnight (reporting by 9am)+ □ Same day ◆

Required Turnaround Time (TAT) Default will be 5 days if not ticked.

Containers Change container type & size if necessan

Email for Results Email for Invoice

◆Surcharge will apply

1 day ◆

Jar (Glass or HDPE) 500mL PFAS Bottle Isiv AOV Jm04

125mL Plastic

250mL Plastic

Sample Comments

Dangerous Goods Hazard Warning

3

31/10

2 90 O

Sampled Date/Time dd/mm/yy ht:mm

Client Sample ID

步

Special Directions

Contact Name

Phone Ne

Address

Purchase Order

Quote ID Ne

OUT 31110

Received By Laboratory Use Only

XIII Courier (#

Received By

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

Submission of samples to the laboratory will be deemed as acceptance of Eurorins I mg Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins I mg Standard Terms and Conditions is arralable on request

SYD | BNE | MEL | PER | ADL | NTL | DRW

SYD | BNE | MEL | PER | ADL | NTL | DRW

Мате

Postal

Hand Delivered

Total Counts

2

1039942

A Temperature Report Ne

Time Time

31/10

Date

Signature

Signature Signature



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 1039947-A
Project name JKW KEMPS

Project ID 1475

Received Date Oct 31, 2023

Client Sample ID			DDG1	DDG2	DDG3	DDG4
Sample Matrix			Dust Deposition	Dust Deposition	Dust Deposition	Dust Deposition
Eurofins Sample No.			S23- No0000023	S23- No0000024	S23- No0000025	S23- No0000026
Date Sampled			Oct 31, 2023	Oct 31, 2023	Oct 31, 2023	Oct 31, 2023
Test/Reference	LOR	Unit				
Dust Deposition						
Combustible Solids	0.1	g/m2/mth	0.2	0.3	0.5	1.3
Soluble Solids	0.1	g/m2/mth	1.9	2.5	2.9	0.5
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	4.2	7.4	14	19
Volume (total)*	0.1	mL	420	390	410	370
Ash*	0.1	g/m2/mth	2.0	4.6	11	17
Insoluble Solids	0.1	g/m2/mth	2.2	5.0	11	18

Client Sample ID			DDG5	DDG6
Sample Matrix			Dust Deposition	Dust Deposition
Eurofins Sample No.			S23- No0000027	S23- No0000028
Date Sampled			Oct 31, 2023	Oct 31, 2023
Test/Reference	LOR	Unit		
Dust Deposition				
Combustible Solids	0.1	g/m2/mth	0.2	0.5
Soluble Solids	0.1	g/m2/mth	2.2	2.3
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	3.8	15
Volume (total)*	0.1	mL	420	540
Ash*	0.1	g/m2/mth	1.5	12
Insoluble Solids	0.1	g/m2/mth	1.6	13



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 DepositionSydneyNov 01, 20235 Days

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



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 Murarrie Mayfield West NSW 2304 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

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NZBN: 9429046024954 35 O'Rorke Road

Auckland

Penrose,

Auckland 1061

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Christchurch Tauranga 43 Detroit Drive 1277 Cameron Road. Rolleston. Gate Pa. Christchurch 7675 Tauranga 3112 Tel: +64 9 526 4551 Tel: +64 3 343 5201 Tel: +64 9 525 0568 IANZ# 1290 IANZ# 1402

Company Name:

Compliance Health & Environmental Consulting P/L

PO Box 275

Gosford NSW 2250

Project Name: Project ID:

Address:

JKW KEMPS

1475

Order No.: Report #:

1039947 02 4304 0091

Phone: Fax:

Site# 2370 Received:

Perth

Welshpool

WA 6106

NATA# 2377

Due: Nov 7, 2023

Priority: 5 Dav

Contact Name: RESULTS - ALL SRAS HERE

Oct 31, 2023 3:03 PM

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	Oct 31, 2023		Dust Deposition	S23-No0000023	х	
2	DDG2	Oct 31, 2023		Dust Deposition	S23-No0000024	х	
3	DDG3	Oct 31, 2023		Dust Deposition	S23-No0000025	х	
4	DDG4	Oct 31, 2023		Dust Deposition	S23-No0000026	Х	
5	DDG5	Oct 31, 2023		Dust Deposition	S23-No0000027	Х	
6	DDG6	Oct 31, 2023		Dust Deposition	S23-No0000028	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 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 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 Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within. NCP

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.

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

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

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 above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported, have been reviewed, and no data was

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.
- 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 Ryan Phillips 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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