



Experts in air quality, odour and emission monitoring.

Emission Testing Report

Report: R018769-1

Sika Australia Pty Ltd, Wetherill Park



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, calibration, and inspection reports.

Document Information

Client Name: Sika Australia Pty Ltd
Report Number: R018769-1
Date of Issue: 20 June 2025
Attention: Tanya Ballantyne
Address: 55 Elizabeth St
Wetherill Park NSW 2164
Testing Laboratory: Ektimo Pty Ltd, ABN 86 600 381 413

Report Authorisation



Sahad Musthafa
Air Monitoring Consultant



NATA Accredited Laboratory
No. 14601



Steven Cooper
Ektimo Signatory

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Please note that only numerical results pertaining to measurements conducted directly by Ektimo are covered by Ektimo terms of NATA accreditation as described in the Test Methods table. This does not include calculations that use data supplied by third-parties, comments, conclusions, or recommendations based upon the results. Refer to Test Methods section for full details of testing covered by NATA accreditation.

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1 Executive Summary

1.1 Background

Ektimo was engaged by Sika Australia Pty Ltd to perform emission testing at their Wetherill Park plant.

1.2 Project Objective & Overview

The objective of the project was to conduct a monitoring programme to speciate and quantify volatile organic compound concentrations in the liquid adhesives area.

Monitoring was performed as follows:

| Location | Test Date | Test Parameters |
|--------------------------------|-------------|--------------------------------------|
| Liquid Adhesives Area (static) | 28 May 2024 | Speciated volatile organic compounds |

All results are reported on a dry basis at STP.

Plant operating conditions have been noted in this report.

As the ducting had been previously removed from the baghouse exhaust a static sample was taken in a central location of the liquid adhesives area adjacent to the control desk on the mezzanine level.

2 Results

2.1 Liquid Adhesives Area (static)

| | | | |
|--------------------|---------------------------------|----------|-----------------------|
| Date | 28/05/2025 | Client | Sika Australia |
| Report | R018769 | Stack ID | Liquid Adhesives Area |
| Licence No. | 6459 | Location | Wetherill Park |
| Ektimo Staff | Mohamed Trabelsi & Ahmad Ramiz | State | NSW |
| Process Conditions | Please refer to client records. | | |

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Comments

The sample was taken from the mezzanine level adjacent to the control desk.
The discharge is assumed to be composed of dry air and moisture

| Total VOCs (as n-Propane) | Results |
|---------------------------|------------------------------------|
| Sampling time | 0922-1322 |
| | Concentration mg/m ³ |
| Total | 0.31 |

| VOC (speciated) | Results |
|--------------------------------|------------------------------------|
| Sampling time | 0922-1322 |
| | Concentration mg/m ³ |
| Detection limit ⁽¹⁾ | <0.02 |
| Acetone | 0.14 |
| Toluene | 0.035 |
| Butyl acetate | 0.089 |
| m + p-Xylene | 0.033 |
| 1,3,5-Trimethylbenzene | 0.022 |
| 1,2,4-Trimethylbenzene | 0.08 |
| Decane | 0.029 |
| 1,2,3-Trimethylbenzene | 0.02 |
| Undecane | 0.027 |
| Residuals as Toluene | 0.16 |

(1) Unless otherwise reported, the following target compounds were found to be below detection:

Ethanol, Isopropanol, Pentane, 1,1-Dichloroethene, Acrylonitrile, Dichloromethane, trans-1,2-Dichloroethene, Methyl ethyl ketone, n-Hexane, cis-1,2-Dichloroethene, Ethyl acetate, Chloroform, 1,1,1-Trichloroethane, 1,2-Dichloroethane, Cyclohexane, Benzene, Carbon tetrachloride, Butanol, Isopropyl acetate, 2-Methylhexane, 2,3-Dimethylpentane, 1-Methoxy-2-propanol, 3-Methylhexane, Heptane, Trichloroethylene, Ethyl acrylate, Methyl methacrylate, Propyl acetate, Methylcyclohexane, Methyl Isobutyl Ketone, 1,1,2-Trichloroethane, 2-Hexanone, Octane, Tetrachloroethene, Chlorobenzene, Ethylbenzene, 1-Methoxy-2-propyl acetate, Styrene, o-Xylene, Butyl acrylate, Nonane, 2-Butoxyethanol, Cellosolve acetate, 1,1,2,2-Tetrachloroethane, Isopropylbenzene, alpha-Pinene, Propylbenzene, beta-Pinene, tert-Butylbenzene, 3-Carene, D-Limonene, Dodecane, Tridecane, Tetradecane

3 Plant Operating Conditions

Based on information received from Sika Australia Pty Ltd personnel, it is our understanding that samples were collected during typical plant operations.

See Sika Australia Pty Ltd records for complete process conditions.

4 Test Methods

All sampling and analysis were performed by Ektimo unless otherwise specified. Specific details of the methods are available upon request.

| Parameter | Sampling method | Analysis method | Uncertainty* | NATA accredited | |
|---|---|-----------------|--------------|-----------------|----------------|
| | | | | Sampling | Analysis |
| Speciated volatile organic compounds (VOCs) | NSW EPA TM-34 ^d (USEPA Method 18) | Ektimo 344 | 19% | ✓ | ✓ [†] |

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* Uncertainties cited in this table are estimated using typical values and are calculated at the 95% confidence level (coverage factor = 2).

[†] Analysis performed by Ektimo. Results were reported to Ektimo on 13 June 2025 in report LV-007360.

^d Excludes recovery study as specified in section 8.4.3 of USEPA Test Method 18.

5 Deviations to Test Methods

TM-34 VOLATILE ORGANIC COMPOUNDS

Ektimo notes that the sampling and analysis of Volatile Organic Compounds (VOCs), per USEPA Method 18 has excluded the recovery study as specified in Section 8.4.3. Performing the recovery study described in Section 8.4.3 of USEPA Method 18 for analytes present at low levels is problematic. Given this, Ektimo applies a threshold of 50µg as a lower-bound mass, below which the 'spiking' of specific volatile organic compounds is not performed. For the purposes of this round of monitoring, the following compounds were present above the detection limit (0.1 µg) but were below 50µg. Therefore, recovery studies for the following analytes were not performed:

- Acetone (7.7 µg)
- Toluene (1.9 µg)
- Butyl acetate (4.9 µg)
- m + p-Xylene (1.8 µg)
- 1,3,5-Trimethylbenzene (1.2 µg)
- 1,2,4-Trimethylbenzene (4.4 µg)
- Decane (1.6 µg)
- 1,2,3-Trimethylbenzene (1.1 µg)
- Undecane (1.5 µg)

6 Quality Assurance/Quality Control Information

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Director.

NATA is a member of APAC (Asia Pacific Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through mutual recognition arrangements with these organisations, NATA accreditation is recognised worldwide.

Unless specifically noted, all samples were collected and handled in accordance with Ektimo's QA/QC standards.

7 Definitions

The following symbols and abbreviations may be used in this test report:

| | |
|-------------------------|---|
| % v/v | Volume to volume ratio, dry basis |
| ~ | Approximately |
| < | Less than |
| > | Greater than |
| ≥ | Greater than or equal to |
| AS | Australian Standard |
| CEM/CEMS | Continuous emission monitoring/Continuous emission monitoring system |
| CTM | Conditional test method |
| D | Duct diameter or equivalent duct diameter for rectangular ducts |
| DECC | Department of Environment & Climate Change (NSW) |
| Disturbance | A flow obstruction or instability in the direction of the flow which may impede accurate flow determination. This includes centrifugal fans, axial fans, partially closed or closed dampers, louvres, bends, connections, junctions, direction changes or changes in pipe diameter. |
| EPA | Environment Protection Authority |
| FTIR | Fourier transform infra-red |
| ISC | Intersociety Committee, Methods of Air Sampling and Analysis |
| ISO | International Organisation for Standardisation |
| ITE | Individual threshold estimate |
| Lower bound | When an analyte is not present above the detection limit, the result is assumed to be equal to zero. |
| Medium bound | When an analyte is not present above the detection limit, the result is assumed to be equal to half of the detection limit. |
| NA | Not applicable |
| NATA | National Association of Testing Authorities |
| NT | Not tested or results not required |
| STP | Standard temperature and pressure. Gas volumes and concentrations are expressed on a dry basis at 0 °C, at discharge oxygen concentration and an absolute pressure of 101.325 kPa. |
| TM | Test method |
| TOC | Total organic carbon. This is the sum of all compounds of carbon which contain at least one carbon-to-carbon bond, plus methane and its derivatives. |
| USEPA | United States Environmental Protection Agency |
| Velocity difference | The percentage difference between the average of initial flows and after flows. |
| VOC | Volatile organic compound. A carbon-based chemical compound with a vapour pressure of at least 0.010 kPa at 25°C or having a corresponding volatility under the given conditions of use. VOCs may contain oxygen, nitrogen and other elements. VOCs do not include carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonate salts. |
| Upper bound | When an analyte is not present above the detection limit, the result is assumed to be equal to the detection limit. |
| 95% confidence interval | Range of values that contains the true result with 95% certainty. This means there is a 5% risk that the true result is outside this range |

8 Appendices

Appendix A: Site Image



Image 1. Liquid Adhesives Area

Appendix B: Chain of Custody

| JOB NUMBER | | R018769 | | | | | | | |
|--------------------|--|--------------------|-------------------|------------------------|------------------|--------------------|--------------------------------|---|---------------------|
| Sample ID | | Job No. | Analysis Required | Units Required | Analytical Lab | Purchase Order No. | Ektimo Contact | Notes | TAT Required (days) |
| ✓ 24447 ✓ 24448 | | R018769 R018769 | VOC's VOC's | up/sample up/sample | Ektimo Ektimo | | Sahad Mustafa Sahad Mustafa | All Locations- Blank VOC Tube Blank Liquid Adhesives Area VOC Tube | |

Checked at Ektimo Dispatch by 04/06/25
Sign/Date

Samples received in good order 5/6
Sign/Date

*rec'd 5/6
logged 5/6
2x VOC's*

Appendix C: Laboratory Results



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CERTIFICATE OF ANALYSIS

Testing Laboratory: Ektimo
26 Redland Drive
Mitcham, VIC 3132

Report Number: LV-007360
Job Number: R018769
Date of Issue: 13/06/2025

Attention: Sika

Address: 55 Elizabeth St
Wetherill Park NSW 2164

Date samples received: 5/06/2025
Number of samples received: 2
Date samples analysed: 11/06/2025
No of samples analysed: 2
Test method(s) used: Ektimo 344

Comments

| QC Acceptance Criteria: | Parameter | Criteria | Pass/Fail |
|-------------------------|-----------------|---------------------------------------|-----------|
| | Standard Curve | $R^2 > 0.99$ | Pass |
| | Range | All samples <110% of highest standard | Pass |
| | Repeat samples | Between 80% - 120% | Pass |
| | Method Blanks | All method blanks < PQL | Pass |
| | QC sample | 2 standard deviations of theoretical | Pass |
| | Chemical Expiry | All chemicals within expiry date | Pass |

This report supersedes any previous report(s) with this reference. Sample(s) have been analysed as received.

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NATA is a member of APAC (Asia Pacific Laboratory Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through the mutual recognition arrangements with both of these organisations, NATA accreditation is recognised world-wide.

A formal Quality Control program is in place at Ektimo to monitor analyses performed in the laboratory and sampling conducted in the field. The program is designed to check where appropriate; the sampling reproducibility, analytical method, accuracy, precision and the performance of the analyst. The Laboratory Manager is responsible for the administration and maintenance of this program.

REPORT AUTHORISATION

Version: 06/05/25



Matthew Cook
Laboratory Manager



Daniel Balaam
Senior Laboratory Chemist



NATA Accredited Laboratory 14601

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Ektimo

Analytical Results

Report No. LV-007360

Job No. R018769

Client Name: Sika

| Parameter | Units | N24447 R018769 | N24448 R018769 |
|----------------------------|------------|-------------------|-------------------|
| | PQL | 1 | 1 |
| Ethanol | µg | <1 | <1 |
| Acetone | µg | <1 | 7.7 |
| Isopropanol | µg | <1 | <1 |
| Pentane | µg | <1 | <1 |
| 1,1-Dichloroethene | µg | <1 | <1 |
| Acrylonitrile | µg | <1 | <1 |
| Dichloromethane | µg | <1 | <1 |
| trans-1,2-Dichloroethene | µg | <1 | <1 |
| Methyl ethyl ketone | µg | <1 | <1 |
| n-Hexane | µg | <1 | <1 |
| cis-1,2-Dichloroethene | µg | <1 | <1 |
| Ethyl acetate | µg | <1 | <1 |
| Chloroform | µg | <1 | <1 |
| 1,1,1-Trichloroethane | µg | <1 | <1 |
| 1,2-Dichloroethane | µg | <1 | <1 |
| Cyclohexane | µg | <1 | <1 |
| Benzene | µg | <1 | <1 |
| Carbon tetrachloride | µg | <1 | <1 |
| Butanol | µg | <1 | <1 |
| Isopropyl acetate | µg | <1 | <1 |
| 2-Methylhexane | µg | <1 | <1 |
| 2,3-Dimethylpentane | µg | <1 | <1 |
| 1-Methoxy-2-propanol | µg | <1 | <1 |
| 3-Methylhexane | µg | <1 | <1 |
| Heptane | µg | <1 | <1 |
| Trichloroethylene | µg | <1 | <1 |
| Ethyl acrylate | µg | <1 | <1 |
| Methyl methacrylate | µg | <1 | <1 |
| Propyl acetate | µg | <1 | <1 |
| Methylcyclohexane | µg | <1 | <1 |
| Methyl Isobutyl Ketone | µg | <1 | <1 |
| Toluene | µg | <1 | 1.9 |
| 1,1,2-Trichloroethane | µg | <1 | <1 |
| 2-Hexanone | µg | <1 | <1 |
| Octane | µg | <1 | <1 |
| Tetrachloroethene | µg | <1 | <1 |
| Butyl acetate | µg | <1 | 4.9 |
| Chlorobenzene | µg | <1 | <1 |
| Ethylbenzene | µg | <1 | <1 |
| m + p-Xylene | µg | <1 | 1.8 |
| 1-Methoxy-2-propyl acetate | µg | <1 | <1 |
| Styrene | µg | <1 | <1 |
| o-Xylene | µg | <1 | <1 |
| Butyl acrylate | µg | <1 | <1 |
| Nonane | µg | <1 | <1 |

* Results marked with an asterisk are outside the acceptable calibration range of the instrument.



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Results page 2 of 3

Ektimo
 Report No. LV-007360
 Job No. R018769
 Client Name: Sika

Analytical Results

| Parameter | Units | N24447 R018769 | N24448 R018769 |
|---------------------------|------------|-------------------|-------------------|
| | PQL | 1 | 1 |
| 2-Butoxyethanol | µg | <1 | <1 |
| Cellosolve acetate | µg | <1 | <1 |
| 1,1,2,2-Tetrachloroethane | µg | <1 | <1 |
| Isopropylbenzene | µg | <1 | <1 |
| alpha-Pinene | µg | <1 | <1 |
| Propylbenzene | µg | <1 | <1 |
| 1,3,5-Trimethylbenzene | µg | <1 | 1.2 |
| beta-Pinene | µg | <1 | <1 |
| tert-Butylbenzene | µg | <1 | <1 |
| 1,2,4-Trimethylbenzene | µg | <1 | 4.4 |
| Decane | µg | <1 | 1.6 |
| 3-Carene | µg | <1 | <1 |
| 1,2,3-Trimethylbenzene | µg | <1 | 1.1 |
| D-Limonene | µg | <1 | <1 |
| Undecane | µg | <1 | 1.5 |
| Dodecane | µg | <1 | <1 |
| Tridecane | µg | <1 | <1 |
| Tetradecane | µg | <1 | <1 |
| Residuals as Toluene | µg | <1 | 8.7 |

* Results marked with an asterisk are outside the acceptable calibration range of the instrument.



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Results page 3 of 3



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