

TEST REPORT

DATE OF REPORT : 29 June 2015

REFERENCE NO : CLS151854

CLIENT REFERENCE NO :

CLIENT ORDER NO :

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CLIENT : South Durban Community Environmental

Alliance

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ANALYSIS REQUIRED : Analysis for Volatile Organic Compounds.

: Analysis for Carbon Dioxide.*

: Analysis for Sulphur Dioxide.: Analysis for Hydrogen Sulphide.

METHOD USED : NIOSH 2549.

: EPA Method 3A.: NIOSH 6004.: NIOSH 6013.





TEST RESULTS

Table 1- Volatile Organic Compounds.

TEST ITEM	TEST ITEM CONDITION	DATE	DATE OF
DESCRIPTION		RECEIVED	ANALYSIS
Tedlar Bags	Received at ambient temperature.	15/06/2015	26/06/2015

The following compounds were specifically tested for:

Pentane	3-Methylhexane	n-Butyl acetate	
Ethanol	Benzene	Ethyl benzene	
Acetone	Isooctane	Xylene	
2-Methylpentane	n-Heptane	2-Butoxyethanol	
3-Methylpentane	Trichloroethylene	Cyclohexanone	
n-Hexane	Methylmethacrylate	Propyl benzene	
Methyl Ethyl Ketone	Propyl acetate	d-Limonene	
Ethyl acetate	Methyl Isobutyl Ketone	1,2,3-Trimethylbenzene	
Chloroform	Toluene	1,2,4-Trimethylbenzene	
2-Methylhexane	Perchloroethylene	1,3,5-Trimethylbenzene	

RESULTS: $(\mu g/m^3)$

Compound	Teakwood Rd	IOP	Badula Drive
n-Pentane	87.67	33.90	37.18
Isohexane	164.39	19.23	34.59
n-Hexane	46.52	86.19	30.13
Ethyl acetate	11.64	16.03	5.64
2-Methylhexane	14.09	23.90	11.80
3-Methylhexane	19.44	33.39	15.36
Benzene	17.25	9.95	61.52
Isooctane	22.85	5.15	2.52
n-Heptane	16.07	116.89	36.51
Toluene	50.70	66.45	74.29
n-Octane	21.71	88.54	33.21
Perchloroethylene	4.37	33.27	4.86
Ethyl benzene	18.64	26.74	25.08
Xylene	72.83	85.30	99.93
n-Nonane	7.45	9.86	24.50
Propyl benzene	1.74	4.14	3.04
1,2,3-Trimethylbenzene	0.94	1.09	3.37
Decane	11.91	11.49	19.32
1,2,4-Trimethylbenzene	6.95	5.93	10.58
d-Limonene	7.37	7.67	5.46

Specific Test Conditions	Samples stored at 5°C prior to analysis. Analysis performed using Thermal Desorption Gas Chromatography/Mass
	Spectrometry.



Detection Limit	1 ng per compound.	
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Table 2-Analysis for Gasses.

TEST ITEM	TEST ITEM CONDITION	DATE	DATE OF
DESCRIPTION		RECEIVED	ANALYSIS
Tedlar Bags	Received at ambient temperature.	15/06/2015	26/06/2015

RESULTS:

Gas	Unit	Teakwood Rd	IOP	Badula
Carbon Dioxide	ppm_vol	487.16	394.94	403.07
Sulphur Dioxide	mg/m^3	2.25	< 0.35	< 0.35
Hydrogen Sulphide	mg/m^3	0.64	0.99	0.71

Gas	Unit	Detection Limit
Carbon Dioxide	ppm_vol	10
Sulphur Dioxide	mg/m^3	0.35
Hydrogen Sulphide	mg/m^3	0.19

Specific Test Conditions	Samples stored at 5° C prior to analysis.
Deviations	None.

WORK APPROVED BY:

Eugene Cowley
(Technical Manager)
(Technical Signatory)

30/06/2015 **Date**

This report relates to the specific sample(s) tested as identified herein, it does not imply Chemtech Laboratory Services approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.

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Results express in ppm, ppb, mg/m^3 or $\mu g/m^3$ were calculated using data supplied by the client.

* This test method is not included in the Scope of Accreditation for Chemtech Laboratory Services.