

TEST REPORT

DATE OF REPORT : 5 August 2015

REFERENCE NO : CLS152693

CLIENT REFERENCE NO : Markman Township Port Elizabeth

CLIENT ORDER NO :

CONTACT PERSON : Eugene Cowley

CLIENT : South Durban Community Environmental Alliance

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ANALYSIS REQUIRED : Analysis for Volatile Organic Compounds.
: Analysis for Methane.*
: Analysis for Hydrogen Sulphide.

METHOD USED : NIOSH 2549.
: EPA Method 3A.
: NIOSH 6013.

TEST RESULTS

Table 1– Volatile Organic Compounds.

TEST ITEM DESCRIPTION	TEST ITEM CONDITION	DATE RECEIVED	DATE OF ANALYSIS
Tedlar Bags	Received at ambient temperature.	29/07/2015	30/07/2015

The following compounds were specifically tested for:

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

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

Compound	A19363	A19388
<i>Benzene</i>	<i>< 1.00</i>	<i>< 1.00</i>
<i>Toluene</i>	<i>9.56</i>	<i>6.78</i>
<i>Ethyl benzene</i>	<i>< 1.00</i>	<i>2.64</i>
<i>Xylene</i>	<i>4.46</i>	<i>11.49</i>
<i>n-Decane</i>	<i>3.00</i>	<i>4.53</i>
<i>1,2,4-Trimethylbenzene</i>	<i>3.84</i>	<i>1.22</i>
<i>d-Limonene</i>	<i>3.93</i>	<i>0.55</i>

Specific Test Conditions	<i>Samples stored at 5⁰C prior to analysis. Analysis performed using Thermal Desorption Gas Chromatography/Mass Spectrometry.</i>
Detection Limit	<i>1 $\mu\text{g}/\text{m}^3$ per compound.</i>

Table 2– Analysis for Gasses.

TEST ITEM DESCRIPTION	TEST ITEM CONDITION	DATE RECEIVED	DATE OF ANALYSIS
Tedlar Bags	Received at ambient temperature.	29/07/2015	31/07/2015

RESULTS:

Gas	Unit	A19363	A19388
Methane	ppm_vol	< 10	< 10
Hydrogen Sulphide	mg/m ³	0.92	1.14

Gas	Unit	Detection Limit
Methane	ppm_vol	10
Hydrogen Sulphide	mg/m ³	0.19

Specific Test Conditions	Samples stored at 5^oC prior to analysis.
Deviations	None.

WORK APPROVED BY:

Eugene Cowley
(Technical Manager)
(Technical Signatory)

5/08/2015**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/m³ or µg/m³ were calculated using data supplied by the client.

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