

Certificate of Analysis

Te Hononga Civic Offices
53 Hereford Street, Christchurch

Lab reference: 22-0029
Submitted by: Tracy Freeman

Kurt Scoringe
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Date received: 02/06/2022
Date analyzed: 02/06/2022
Report date: 02/06/2022
Order No:
Reference: 1st-June-2022

Laboratory ID	22-0029-1	22-0029-2	22-0029-3	22-0029-4	22-0029-5	22-0029-6
Customer ID	Site 2a, South Gate	Site 5, Pond Dam	Site 19, Kestrel Pl	Site 20, Sweetwater	Site 24, Value Plus Meats	Site 21, Foresthill
Sampling time	01-06-2022, 12:45	01-06-2022, 12:25	01-06-2022, 10:54	01-06-2022, 11:08	01-06-2022, 13:20	01-06-2022, 11:45

Analyte (CAS)	Unit	22-0029-1	22-0029-2	22-0029-3	22-0029-4	22-0029-5	22-0029-6
ammonia (7664-41-7)	ppbv	<LOQ	628	72	77	211	134
benzene (71-43-2)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
carbon disulfide (75-15-0)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
carbonyl sulfide (463-58-1)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
dimethyl disulfide (624-92-0)	ppbv	<LOQ	2	<LOQ	<LOQ	2	<LOQ
ethyl mercaptan + dimethyl sulphide	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
hydrogen sulphide (7783-06-4)	ppbv	18	146	17	20	139	14
methyl mercaptan (74-93-1)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
styrene (100-42-5)	ppbv	4	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
xylenes + ethylbenzene	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

Laboratory ID	22-0029-7	22-0029-8	22-0029-9	22-0029-10	22-0029-11
Customer ID	Site 23, Pacific Glass	Site 12, St. Johns/Seascape	Site 22, Dog Shelter	Site 25, Newton St.	Site 26, ChCh Caravans
Sampling time	01-06-2022, 13:05	01-06-2022, 11:40	01-06-2022, 12:15	01-06-2022, 13:25	01-06-2022, 13:40

Analyte (CAS)	Unit	22-0029-7	22-0029-8	22-0029-9	22-0029-10	22-0029-11
ammonia (7664-41-7)	ppbv	116	<LOQ	53	71	<LOQ
benzene (71-43-2)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
carbon disulfide (75-15-0)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
carbonyl sulfide (463-58-1)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
dimethyl disulfide (624-92-0)	ppbv	<LOQ	<LOQ	1	<LOQ	<LOQ
ethyl mercaptan + dimethyl sulphide	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
hydrogen sulphide (7783-06-4)	ppbv	<LOQ	20	83	82	38
methyl mercaptan (74-93-1)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
styrene (100-42-5)	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
xylenes + ethylbenzene	ppbv	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

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Analyte (CAS)	LOQ, estimated, ppbv	Uncertainty, relative, estimated (n=28), %
ammonia (7664-41-7)	43	2
benzene (71-43-2)	3	8
carbon disulfide (75-15-0)	24	6
carbonyl sulfide (463-58-1)	13	4
dimethyl disulfide (624-92-0)	1	6
ethyl mercaptan + dimethyl sulphide	2	10
hydrogen sulphide (7783-06-4)	8	9
methyl mercaptan (74-93-1)	2	11
styrene (100-42-5)	1	14
xylenes + ethylbenzene	2	8

Method approver:



Anatoly Chernyshev, PhD
 Director

Method Summary

The samples were analysed as received using direct injection – Selected Ion Flow Tube Mass Spectrometry (SIFT-MS) in Mass Scan Mode (reporting limit is 100 ppbv) and Selected Ion Mode (LOQ as in the table).

Report Notes

The samples were received in acceptable condition. **Wind direction during sampling: N (moderate). No new components detected in the mass scans.** SIM method amended on client's request.