

Results Summary

2683

Report No.: 21-33992, issue number 2

ELAB Reference	238984	238985	238986	238987	238988
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP204	TP203	TT214	TT212	TP202
Sample Depth (m)	2.80	1.40	0.40	1.40	0.80
Sampling Date	26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021

Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Toluene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	^ 37.2	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
Xylenes	M	ug/kg	10	^ 268	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	1.3	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	2.7	1.1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	6.7	4.1	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	214	61.4	5.6	4.8	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	186	37.4	< 1.0	1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	1.6	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	4.8	2.8	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	198	42.5	7.6	3.3	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	220	18.5	2.5	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	833	169	15.7	9.2	< 1.0



Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference	238989	238990	238991
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TT210	TT209	TT211
Sample Depth (m)	1.40	1.20	1.80
Sampling Date	26/05/2021	26/05/2021	26/05/2021

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	n/t	n/t
Metals						
Arsenic	M	mg/kg	1	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t
Miscellaneous						
pH	M	pH units	0.1	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t
Phenols						
Phenol	M	mg/kg	1	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t

Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference	238989	238990	238991
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TT210	TT209	TT211
Sample Depth (m)	1.40	1.20	1.80
Sampling Date	26/05/2021	26/05/2021	26/05/2021

Determinand	Codes	Units	LOD			
BTEX						
Benzene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Toluene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
Xylenes	M	ug/kg	10	< 10.0	^ < 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	1.7	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	83.7	7.9
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	2.1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	28.8	6.1
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	7.1	3.4
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	124	17.4

Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference				238992	238993	238994	238995	238996
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				LWS6	LWS3	LWS4	LWS5	LWS1
Sample Depth (m)								
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
Dissolved Metals								
Arsenic	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Cadmium	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Chromium	U	ug/l	5	< 5	40	23	< 5	11
Copper	U	ug/l	0.5	< 5	9	11	< 5	8
Mercury	U	ug/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	5	< 5	< 5	< 5	< 5
Lead	U	ug/l	1	< 1	< 1	< 1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5	< 5	< 5	< 5
Zinc	U	ug/l	5	46	< 5	< 5	12	10
Inorganics								
Hexavalent Chromium	U	ug/l	100	< 100	< 100	< 100	< 100	< 100
Miscellaneous								
Dissolved organic carbon	N	mg/l	1.5	< 1.5	3.8	6.9	3.0	6.6
pH	U	pH units	0.1	7.4	10.1	11.3	8.9	7.7
Phenols								
Phenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	ug/l	1	< 1	< 1	< 1	< 1	< 1
Polyaromatic hydrocarbons								
Naphthalene GCMS	N	ug/l	0.01	< 0.01	0.04	0.06	< 0.01	0.01
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	0.03	0.14	< 0.01	0.05
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	0.03	0.07	0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01	0.02	0.04	0.01	0.01
Phenanthrene GCMS	N	ug/l	0.01	< 0.01	0.15	0.39	0.03	0.11
Anthracene GCMS	N	ug/l	0.01	< 0.01	0.05	0.19	0.01	0.06
Fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.43	1.59	0.03	0.52
Pyrene GCMS	N	ug/l	0.01	< 0.01	0.39	1.60	0.03	0.50
Benzo (a) anthracene GCMS	N	ug/l	0.01	< 0.01	0.18	0.87	0.01	0.29
Chrysene GCMS	N	ug/l	0.01	< 0.01	0.24	0.98	0.02	0.38
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.25	1.35	0.02	0.49
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	< 0.01	0.23	1.19	0.02	0.49
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01	0.22	1.36	0.02	0.44
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01	0.15	0.94	0.01	0.35
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	0.05	0.23	< 0.01	0.08
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01	0.19	1.17	0.02	0.42
Total PAH(16) GCMS	N	ug/l	0.01	0.08	2.65	12.2	0.26	4.21



Results Summary

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Report No.: 21-33992, issue number 2

ELAB Reference				238992	238993	238994	238995	238996
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				LWS6	LWS3	LWS4	LWS5	LWS1
Sample Depth (m)								
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
MTBE	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	5.7	< 5.0	< 5.0
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	81.8	< 5.0	29.6
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	40.6	< 5.0	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	< 5.0	< 5.0	128	< 5.0	29.6
Total (>C5-C40) Ali/Aro	N	ug/l	5	< 5.0	< 5.0	128	< 5.0	29.6



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Results Summary

Report No.: 21-33992, issue number 2

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
238980	1.10	TT205	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
238988	0.80	TP202	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-33992, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	01/06/2021	110	Colorimetry
pH	M	Air dried sample	02/06/2021	113	Electromeric
Phenols in solids	M	As submitted sample	01/06/2021	121	HPLC
PAH (GC-FID)	M	As submitted sample	01/06/2021	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/06/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/06/2021	181	GC-MS
BTEX in solids	M	As submitted sample	01/06/2021	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	02/06/2021	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	01/06/2021	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	02/06/2021	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	02/06/2021	214	GC-FID
Asbestos identification	U	Air dried sample	04/06/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/06/2021	300	ICPMS
Water					
Aliphatic/Aromatic hydrocarbons in water	N		07/06/2021		GC-FID
Aromatic hydrocarbons in water	N		07/06/2021		GC-FID
Phenols in waters	N		01/06/2021		HPLC
Dissolved organic carbon	N		02/06/2021	102	IR
pH of waters	U		01/06/2021	113	Electromeric
Chromium Hexavalent in waters	U		03/06/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		03/06/2021	135	GC-MS
BTEX in waters	N		01/06/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		01/06/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		01/06/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		03/06/2021	215	GC-FID
Aromatic hydrocarbons in water	N		03/06/2021	215	GC-FID
Dissolved metals by ICP in waters	U		01/06/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-33992, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-34500

Issue: 2. Replaces Analytical Report number 21-34500; issue no.1

Date of Issue: 29/06/2021

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3973

Customer Reference: LP2575

Date Received: 25/06/2021

Date Approved: 29/06/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-34500, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
242039	LWS7	24/06/2021	25/06/2021		
242040	LWS8	24/06/2021	25/06/2021		
242041	LWS10	24/06/2021	25/06/2021		
242042	LWS11	24/06/2021	25/06/2021		
242043	SW7	24/06/2021	25/06/2021		
242044	LWS2	24/06/2021	25/06/2021		

Results Summary

Report No.: 21-34500, issue number 2

ELAB Reference	242039	242040	242041	242042	242044
Customer Reference					
Sample ID					
Sample Type	WATER	WATER	WATER	WATER	WATER
Sample Location	LWS7	LWS8	LWS10	LWS11	LWS2
Sample Depth (m)					
Sampling Date	24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Determinand	Codes	Units	LOD		
Dissolved Metals					
Arsenic	U	ug/l	5	< 5	< 5
Calcium	U	ug/l	100	102000	n/t
Cadmium	U	ug/l	1	< 1	< 1
Chromium	U	ug/l	5	< 5	< 5
Copper	U	ug/l	0.5	2.7	3.1
Mercury	U	ug/l	0.1	< 0.1	< 0.1
Nickel	U	ug/l	5	< 5	< 5
Lead	U	ug/l	1	< 1	< 1
Selenium	U	ug/l	5	< 5	< 5
Zinc	U	ug/l	5	12	7
Inorganics					
Hexavalent Chromium	U	ug/l	100	< 100	< 100
Miscellaneous					
Dissolved organic carbon	N	mg/l	1.5	12	9.9
pH	U	pH units	0.1	6.9	7.5
Polyaromatic hydrocarbons					
Naphthalene GCMS	N	ug/l	0.01	0.02	< 0.01
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.03	0.02
Anthracene GCMS	N	ug/l	0.01	0.01	< 0.01
Fluoranthene GCMS	N	ug/l	0.01	0.07	0.01
Pyrene GCMS	N	ug/l	0.01	0.07	0.02
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.02	< 0.01
Chrysene GCMS	N	ug/l	0.01	0.04	< 0.01
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.03	< 0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.04	< 0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	0.02	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	0.02	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	0.02	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.40	0.09

Results Summary

Report No.: 21-34500, issue number 2

ELAB Reference				242039	242040	242041	242042	242044
Customer Reference								
Sample ID								
Sample Type				WATER	WATER	WATER	WATER	WATER
Sample Location				LWS7	LWS8	LWS10	LWS11	LWS2
Sample Depth (m)								
Sampling Date				24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Toluene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Ethylbenzene	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Xylenes	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
MTBE	N	ug/l	1	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TPH CWG								
>C5-C6 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	38.9	12.2
>C12-C16 Aliphatic	N	ug/l	5	8.2	< 5.0	< 5.0	172	31.3
>C16-C21 Aliphatic	N	ug/l	5	< 5.0	5.1	< 5.0	235	56.8
>C21-C35 Aliphatic	N	ug/l	5	< 5.0	87.7	15.6	712	481
>C35-C40 Aliphatic	N	ug/l	5	< 5.0	13.2	< 5.0	124	55.2
Total (>C5-C40) Aliphatic	N	ug/l	5	8.2	106	15.6	1280	636
>C5-C7 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C7-C8 Aromatic	N	ug/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C8-C10 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	23.9	13.7
>C12-C16 Aromatic	N	ug/l	5	7.1	< 5.0	< 5.0	126	28.1
>C16-C21 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	228	62.4
>C21-C35 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	765	656
>C35-C40 Aromatic	N	ug/l	5	< 5.0	< 5.0	< 5.0	224	199
Total (>C5-C40) Aromatic	N	ug/l	5	7.1	< 5.0	< 5.0	1370	958
Total (>C5-C40) Ali/Aro	N	ug/l	5	15.3	106	15.6	2650	1590

Method Summary

Report No.: 21-34500, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		29/06/2021		GC-FID
Aromatic hydrocarbons in water	N		29/06/2021		GC-FID
Dissolved organic carbon	N		29/06/2021	102	IR
pH of waters	U		28/06/2021	113	Electromeric
Chromium Hexavalent in waters	U		28/06/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		29/06/2021	135	GC-MS
BTEX in waters	N		28/06/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		28/06/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		28/06/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		29/06/2021	215	GC-FID
Aromatic hydrocarbons in water	N		29/06/2021	215	GC-FID
Dissolved metals by ICP in waters	U		28/06/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-34500, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



2683

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-34612

Issue: 1

Date of Issue: 02/07/2021

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3990

Customer Reference: LP2575

Date Received: 01/07/2021

Date Approved: 02/07/2021

Details: Novartis - Horsham

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-34612, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
242856	LWS9	30/06/2021	01/07/2021		

Results Summary

Report No.: 21-34612, issue number 1

ELAB Reference	242856
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	LWS9
Sample Depth (m)	
Sampling Date	30/06/2021

Determinand	Codes	Units	LOD	
Dissolved Metals				
Arsenic	U	ug/l	5	< 5
Cadmium	U	ug/l	1	< 1
Chromium	U	ug/l	5	< 5
Copper	U	ug/l	0.5	2.5
Mercury	U	ug/l	0.1	< 0.1
Nickel	U	ug/l	5	< 5
Lead	U	ug/l	1	< 1
Selenium	U	ug/l	5	< 5
Zinc	U	ug/l	5	8
Inorganics				
Hexavalent Chromium	U	ug/l	100	< 100
Miscellaneous				
Dissolved organic carbon	N	mg/l	1.5	6.9
pH	U	pH units	0.1	7.2
Polyaromatic hydrocarbons				
Naphthalene GCMS	N	ug/l	0.01	0.13
Acenaphthylene GCMS	N	ug/l	0.01	< 0.01
Acenaphthene GCMS	N	ug/l	0.01	< 0.01
Fluorene GCMS	N	ug/l	0.01	< 0.01
Phenanthrene GCMS	N	ug/l	0.01	0.02
Anthracene GCMS	N	ug/l	0.01	0.01
Fluoranthene GCMS	N	ug/l	0.01	0.03
Pyrene GCMS	N	ug/l	0.01	0.03
Benzo (a) anthracene GCMS	N	ug/l	0.01	0.01
Chrysene GCMS	N	ug/l	0.01	0.02
Benzo (b) fluoranthene GCMS	N	ug/l	0.01	0.01
Benzo (k) fluoranthene GCMS	N	ug/l	0.01	0.01
Benzo (a) pyrene GCMS	N	ug/l	0.01	< 0.01
Indeno (1,2,3-cd) pyrene GCMS	N	ug/l	0.01	< 0.01
Dibenzo(a,h)anthracene GCMS	N	ug/l	0.01	< 0.01
Benzo(ghi)perylene GCMS	N	ug/l	0.01	< 0.01
Total PAH(16) GCMS	N	ug/l	0.01	0.34



2683

Results Summary

Report No.: 21-34612, issue number 1

ELAB Reference	242856
Customer Reference	
Sample ID	
Sample Type	WATER
Sample Location	LWS9
Sample Depth (m)	
Sampling Date	30/06/2021

Determinand	Codes	Units	LOD	
BTEX				
Benzene	N	ug/l	1	< 1.00
Toluene	N	ug/l	1	1.31
Ethylbenzene	N	ug/l	1	< 1.00
Xylenes	N	ug/l	1	1.36
MTBE	N	ug/l	1	< 1.00
TPH CWG				
>C5-C6 Aliphatic	N	ug/l	1	< 1.0
>C6-C8 Aliphatic	N	ug/l	1	< 1.0
>C8-C10 Aliphatic	N	ug/l	5	< 5.0
>C10-C12 Aliphatic	N	ug/l	5	< 5.0
>C12-C16 Aliphatic	N	ug/l	5	< 5.0
>C16-C21 Aliphatic	N	ug/l	5	< 5.0
>C21-C35 Aliphatic	N	ug/l	5	< 5.0
>C35-C40 Aliphatic	N	ug/l	5	< 5.0
Total (>C5-C40) Aliphatic	N	ug/l	5	< 5.0
>C5-C7 Aromatic	N	ug/l	1	< 1.0
>C7-C8 Aromatic	N	ug/l	1	1.3
>C8-C10 Aromatic	N	ug/l	5	< 5.0
>C10-C12 Aromatic	N	ug/l	5	< 5.0
>C12-C16 Aromatic	N	ug/l	5	< 5.0
>C16-C21 Aromatic	N	ug/l	5	5.1
>C21-C35 Aromatic	N	ug/l	5	< 5.0
>C35-C40 Aromatic	N	ug/l	5	< 5.0
Total (>C5-C40) Aromatic	N	ug/l	5	6.4
Total (>C5-C40) Ali/Aro	N	ug/l	5	6.4

Method Summary

Report No.: 21-34612, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Water					
Aliphatic/Aromatic hydrocarbons in water	N		02/07/2021		GC-FID
Aromatic hydrocarbons in water	N		02/07/2021		GC-FID
Dissolved organic carbon	N		02/07/2021	102	IR
pH of waters	U		02/07/2021	113	Electromeric
Chromium Hexavalent in waters	U		02/07/2021	123	Colorimetry
PAHs and/or PCBs in waters	N		02/07/2021	135	GC-MS
BTEX in waters	N		02/07/2021	200	GC-MS
Low range Aliphatic hydrocarbons water	N		02/07/2021	200	GC-MS
Low range Aromatic hydrocarbons water	N		02/07/2021	200	GC-MS
Aliphatic hydrocarbons in water	N		02/07/2021	215	GC-FID
Aromatic hydrocarbons in water	N		02/07/2021	215	GC-FID
Dissolved metals by ICP in waters	U		02/07/2021	301	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-34612, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
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SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
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U/S	Unsuitable sample
n/t	Not tested
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Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
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Deeside
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Website: www.alsenvironmental.co.uk

Leap Environmental
Premier House
46 Victoria Road
Burgess Hill
RG15 9LR

Attention: Martin Weil

CERTIFICATE OF ANALYSIS

Date of report Generation:	21 May 2021
Customer:	Leap Environmental
Sample Delivery Group (SDG):	210514-80
Your Reference:	LP2575
Location:	NoramtisNoramtis
Report No:	598950

We received 2 samples on Friday May 14, 2021 and 2 of these samples were scheduled for analysis which was completed on Wednesday May 19, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S)

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory





CERTIFICATE OF ANALYSIS

Validated

SDG:	210514-80	Client Reference:	LP2575	Report Number:	598950
Location:	NoramtisNoramtis	Order Number:	LPO-3751	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24268123	BH106			12/05/2021
24268122	WS106			12/05/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80 **Client Reference:** LP2575 **Report Number:** 598950
Location: NoramtisNoramtis **Order Number:** LPO-3751 **Superseded Report:**

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
 UNS - Unspecified Solid
 GW - Ground Water
 SW - Surface Water
 LE - Land Leachate
 PL - Prepared Leachate
 PR - Process Water
 SA - Saline Water
 TE - Trade Effluent
 TS - Treated Sewage
 US - Untreated Sewage
 RE - Recreational Water
 DW - Drinking Water Non-regulatory
 UNL - Unspecified Liquid
 SL - Sludge
 G - Gas
 OTH - Other

Lab Sample No(s)

24268123
24268122

Customer Sample Reference

BH106
S106

AGS Reference

Depth (m)

Container

Gas Canister
Gas Canister

Sample Type

G
G

Bulk Gas	All	NDPs: 0 Tests: 2	X	X
Helium	All	NDPs: 0 Tests: 2	X	X
Odourant Gas Analysis (G)	All	NDPs: 0 Te t 2	X	X
TPH in Gas samples	All	NDPs: 0 Tests: 2	X	X
VOC's	All	NDPs: 0 Tests: 2	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramti

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 0118 Sample Volume (ml) 30 Initial pressure (psia) 12.26 Final pressure (psia) 20.05 Dilution 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<8.18	20.5	ppbv	<29.4	73.9	ug/m ³
71-43-2	Benzene	<7.09	28.4	ppbv	<22.6	90.6	ug/m ³
108-88-3	Toluene	<8.18	277	ppbv	<30.8	1040	ug/m ³
100-41-4	Ethyl Benzene	<8.18	29.9	ppbv	<35.5	130	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<8.18	108	ppbv	<35.5	469	ug/m ³
95-47-6	o-Xylene	<8.18	36.3	ppbv	<35.5	157	ug/m ³
91-20-3	Naphthalene	<12.5	<12.5	ppbv	<65.4	<65.6	ug/m ³
-	TPH (C4-C6)	<54.5	729	ppbv	<159	2130	ug/m ³
-	TPH (C6-C8)	<54.5	815	ppbv	<201	3000	ug/m ³
-	TPH (C8-C10)	<74.7	385	ppbv	<353	1820	ug/m ³
-	TPH (C10-C12)	<116	<116	ppbv	<672	<670	ug/m ³
-	TPH (C4-C12)	<300	1930	ppbv	<1390	6950	ug/m ³
-	Aliphatic (C4-C6)	<54.5	729	ppbv	<159	2130	ug/m ³
-	Aliphatic (C6-C8)	<39.2	510	ppbv	<148	1870	ug/m ³
-	Aliphatic (C8-C10)	<20.2	96.7	ppbv	<103	498	ug/m ³
-	Aliphatic (C10-C12)	<61.5	<61.5	ppbv	<245	<245	ug/m ³
-	Aromatic (EC5-EC7)	<7.09	28.4	ppbv	<22.6	90.6	ug/m ³
-	Aromatic (EC7-EC8)	<8.18	277	ppbv	<30.8	1040	ug/m ³
-	Aromatic (EC8-EC10)	<54.5	288	ppbv	<250	1320	ug/m ³
-	Aromatic (EC10-EC12)	<54.5	<54.5	ppbv	<427	<427	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106 Depth Sampled Date 12/05/2021 00:00:00

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 0117 Sample Volume (ml) 50 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<4.64	15.3	ppbv	<16.7	55.2	ug/m ³
71-43-2	Benzene	<4.02	21.1	ppbv	<12.8	67.4	ug/m ³
108-88-3	Toluene	<4.64	264	ppbv	<17.5	994	ug/m ³
100-41-4	Ethyl Benzene	<4.64	30.3	ppbv	<20.1	132	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<4.64	112	ppbv	<20.1	484	ug/m ³
95-47-6	o-Xylene	<4.64	37.0	ppbv	<20.1	160	ug/m ³
91-20-3	Naphthalene	<7.12	<7.12	ppbv	<37.3	<37.3	ug/m ³
-	TPH (C4-C6)	<31.0	610	ppbv	<90.4	1780	ug/m ³
-	TPH (C6-C8)	<31.0	703	ppbv	<114	2590	ug/m ³
-	TPH (C8-C10)	<42.4	422	ppbv	<200	2000	ug/m ³
-	TPH (C10-C12)	<65.6	<65.6	ppbv	<380	<380	ug/m ³
-	TPH (C4-C12)	<170	1740	ppbv	<784	6370	ug/m ³
-	Aliphatic (C4-C6)	<31.0	610	ppbv	<90.4	1780	ug/m ³
-	Aliphatic (C6-C8)	<22.3	418	ppbv	<83.7	1530	ug/m ³
-	Aliphatic (C8-C10)	<11.4	130	ppbv	<58.0	656	ug/m ³
-	Aliphatic (C10-C12)	<34.6	<34.6	ppbv	<137	<137	ug/m ³
-	Aromatic (EC5-EC7)	<4.02	21.1	ppbv	<12.8	67.4	ug/m ³
-	Aromatic (EC7-EC8)	<4.64	264	ppbv	<17.5	994	ug/m ³
-	Aromatic (EC8-EC10)	<31.0	292	ppbv	<142	1340	ug/m ³
-	Aromatic (EC10-EC12)	<31.0	<31.0	ppbv	<243	<242	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0118

Sample Volume (ml) 30 Dispatch pressure (psia) -0.10 Initial pressure (psia) 12.26 Final pressure (psia) 20.05 Dilution 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<8.18	<8.18	ppbv	<44.5	<44.5	ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<8.18	<8.18	ppbv	<56.2	<56.2	ug/m ³
79-00-5	1,1,2-Trichloroethane	<8.18	<8.18	ppbv	<44.5	<44.5	ug/m ³
75-34-3	1,1-Dichloroethane	<8.18	<8.18	ppbv	<33.1	<33.1	ug/m ³
75 35 4	1,1 Dichloroethene	8.18	8.18	ppbv	32.5	32.4	ug/m
526-73-8	1,2,3-Trimethylbenzene	<8.18	<8.18	ppbv	<40.1	<40.1	ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<8.18	35.7	ppbv	<60.6	264	ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<8.18	<8.18	ppbv	<40.1	<40.1	ug/m ³
106-93-4	1,2-Dibromoethane	<8.18	<8.18	ppbv	<62.9	<62.9	ug/m ³
95-50-1	1,2-Dichlorobenzene	<8.18	<8.18	ppbv	<49.2	<49.2	ug/m ³
107-06-2	1,2-Dichloroethane	<8.18	<8.18	ppbv	<33.1	<33.1	ug/m ³
78-87-5	1,2-Dichloropropane	<8.18	<8.18	ppbv	<37.8	<37.8	ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<8.18	<8.18	ppbv	<57.2	<57.2	ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<8.18	9.91	ppbv	<40.1	48.6	ug/m ³
106-99-0	1,3-Butadiene	<8.18	<8.18	ppbv	<18.1	<18.1	ug/m ³
106-46-7	1,4-Dichlorobenzene	<8.18	<8.18	ppbv	<49.2	<49.2	ug/m ³
123-91-1	1,4-Dioxane	<8.18	<8.18	ppbv	<29.4	<29.4	ug/m ³
71-23-8	1-Propanol	<8.18	<8.18	ppbv	<20.1	<20.1	ug/m ³
78-93-3	2-Butanone (MEK)	<8.18	12.4	ppbv	<24.1	36.4	ug/m ³
591-78-6	2-Hexanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
107-87-9	2-Pentanone	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
589-38-8	3-Hexanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
96-22-0	3-Pentanone	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
108-10-1	4-Methyl-2-pentanone	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<16.4	34.8	ppbv	<38.9	82.6	ug/m ³
75-05-8	Acetonitrile	<8.18	<8.18	ppbv	<13.7	<13.7	ug/m ³
107-02-8	Acrolein	<8.18	<8.18	ppbv	<18.7	<18.7	ug/m ³
71-43-2	Benzene	<7.09	28.0	ppbv	<22.6	89.3	ug/m ³
100-44-7	Benzyl Chloride	<8.18	<8.18	ppbv	<42.5	<42.5	ug/m ³
75-27-4	Bromodichloromethane	<8.18	<8.18	ppbv	<54.9	<54.8	ug/m ³
75-25-2	Bromoform	<8.18	<8.18	ppbv	<84.6	<84.6	ug/m ³
74-83-9	Bromomethane	<8.18	<8.18	ppbv	<31.8	<31.8	ug/m ³
123-72-8	Butanal	<8.18	<8.18	ppbv	<24.1	<24.1	ug/m ³
75-15-0	Carbon Disulfide	<8.18	<8.18	ppbv	<25.4	<25.4	ug/m ³
56-23-5	Carbon Tetrachloride	<8.18	<8.18	ppbv	<51.5	<51.5	ug/m ³
108-90-7	Chlorobenzene	<8.18	<8.18	ppbv	<37.8	<37.8	ug/m ³
75-00-3	Chloroethane	<8.18	<8.18	ppbv	<21.7	<21.7	ug/m ³
67-66-3	Chloroform	<8.18	<8.18	ppbv	<39.8	<39.8	ug/m ³
74-87-3	Chloromethane	<8.18	<8.18	ppbv	<16.7	<16.7	ug/m ³
156-59-2	cis-1,2-Dichloroethene	<8.18	<8.18	ppbv	<32.5	<32.4	ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<8.18	<8.18	ppbv	<37.1	<37.1	ug/m ³
110-82-7	Cyclohexane	<8.18	13.6	ppbv	<28.1	46.6	ug/m ³
75-71-8	Dichlorodifluoromethane	<8.18	<8.18	ppbv	<40.5	<40.5	ug/m ³
75-45-6	Difluorochloromethane	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
100-41-4	Ethylbenzene	<8.18	43.3	ppbv	<35.5	188	ug/m ³
87-68-3	Hexachlorobutadiene	<8.18	<8.18	ppbv	<87.0	<87.0	ug/m ³
66-25-1	Hexanal	<8.18	<8.18	ppbv	<33.5	<33.4	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtisClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268122

Sample ID WS106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0118

Sample Volume (ml) 30 Dispatch pressure (psia) -0.10 Initial pressure (psia) 12.26 Final pressure (psia) 20.05 Dilution 1.6353996737

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
110-54-3	Hexane	<8.18	172	ppbv	<28.8	604	ug/m ³
74-88-4	Iodomethane	<8.18	<8.18	ppbv	<47.5	<47.5	ug/m ³
115-11-7	Isobutene	<8.18	85.7	ppbv	<18.7	196	ug/m ³
78-79-5	Isoprene	<8.18	<8.18	ppbv	<22.8	<22.7	ug/m ³
108 38 3 & 106 42 3	m/p Xylene	16.4	155	ppbv	71.1	672	ug/m
78-85-3	Methylacrolein	<8.18	<8.18	ppbv	<23.4	<23.4	ug/m ³
75-09-2	Methylene Chloride	<8.18	<8.18	ppbv	<28.4	<28.4	ug/m ³
1634-04-4	MTBE	<8.18	24.2	ppbv	<29.4	87.2	ug/m ³
91-20-3	Naphthalene	<8.18	<8.18	ppbv	<42.8	<42.8	ug/m ³
95-47-6	o-Xylene	<8.18	52.6	ppbv	<35.5	228	ug/m ³
110-62-3	Pentanal	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
109-66-0	Pentane	<8.18	39.9	ppbv	<24.1	117	ug/m ³
100-42-5	Styrene	<8.18	<8.18	ppbv	<34.8	<34.8	ug/m ³
127-18-4	Tetrachloroethene	<8.18	<8.18	ppbv	<55.5	<55.5	ug/m ³
108-88-3	Toluene	<8.18	347	ppbv	<30.8	1310	ug/m ³
156-60-5	trans-1,2-Dichloroethene	<8.18	<8.18	ppbv	<32.5	<32.4	ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<8.18	<8.18	ppbv	<37.1	<37.1	ug/m ³
79-01-6	Trichloroethene	<8.18	<8.18	ppbv	<43.8	<43.8	ug/m ³
75-69-4	Trichlorofluoromethane	<8.18	78.9	ppbv	<45.8	442	ug/m ³
26523-64-8	Trichlorotrifluoroethane	<8.18	<8.18	ppbv	<62.6	<62.5	ug/m ³
108-05-4	Vinyl Acetate	<8.18	<8.18	ppbv	<28.8	<28.8	ug/m ³
75-01-4	Vinyl Chloride	<8.18	<8.18	ppbv	<20.7	<20.7	ug/m ³
	TIC's					See Attached	



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtiNoramtiClient Reference: LP2575
Order Number: LPO-3751Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0117

Sample Volume (ml) 50 Dispatch pressure (psia) -0.02 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<4.64	<4.64	ppbv	<25.2	<25.3	ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<4.64	<4.64	ppbv	<31.9	<31.9	ug/m ³
79-00-5	1,1,2-Trichloroethane	<4.64	<4.64	ppbv	<25.2	<25.3	ug/m ³
75-34-3	1,1-Dichloroethane	<4.64	<4.64	ppbv	<18.8	<18.8	ug/m ³
75 35 4	1,1 Dichloroethene	4.64	4.64	ppbv	18.4	18.4	ug/m
526-73-8	1,2,3-Trimethylbenzene	<4.64	6.20	ppbv	<22.8	30.4	ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<4.64	34.5	ppbv	<34.3	256	ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<4.64	<4.64	ppbv	<22.8	<22.8	ug/m ³
106-93-4	1,2-Dibromoethane	<4.64	<4.64	ppbv	<35.7	<35.7	ug/m ³
95-50-1	1,2-Dichlorobenzene	<4.64	<4.64	ppbv	<27.9	<27.9	ug/m ³
107-06-2	1,2-Dichloroethane	<4.64	<4.64	ppbv	<18.8	<18.8	ug/m ³
78-87-5	1,2-Dichloropropane	<4.64	<4.64	ppbv	<21.4	<21.5	ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<4.64	<4.64	ppbv	<32.5	<32.5	ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<4.64	8.72	ppbv	<22.8	42.8	ug/m ³
106-99-0	1,3-Butadiene	<4.64	<4.64	ppbv	<10.2	<10.3	ug/m ³
106-46-7	1,4-Dichlorobenzene	<4.64	<4.64	ppbv	<27.9	<27.9	ug/m ³
123-91-1	1,4-Dioxane	<4.64	<4.64	ppbv	<16.7	<16.7	ug/m ³
71-23-8	1-Propanol	<4.64	<4.64	ppbv	<11.4	<11.4	ug/m ³
78-93-3	2-Butanone (MEK)	<4.64	12.2	ppbv	<13.7	36.0	ug/m ³
591-78-6	2-Hexanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
107-87-9	2-Pentanone	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
589-38-8	3-Hexanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
96-22-0	3-Pentanone	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
108-10-1	4-Methyl-2-pentanone	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<9.29	46.9	ppbv	<22.0	111	ug/m ³
75-05-8	Acetonitrile	<4.64	<4.64	ppbv	<7.78	<7.79	ug/m ³
107-02-8	Acrolein	<4.64	<4.64	ppbv	<10.6	<10.6	ug/m ³
71-43-2	Benzene	<4.02	20.8	ppbv	<12.8	66.5	ug/m ³
100-44-7	Benzyl Chloride	<4.64	<4.64	ppbv	<24.1	<24.1	ug/m ³
75-27-4	Bromodichloromethane	<4.64	<4.64	ppbv	<31.1	<31.1	ug/m ³
75-25-2	Bromoform	<4.64	<4.64	ppbv	<48.0	<48.0	ug/m ³
74-83-9	Bromomethane	<4.64	<4.64	ppbv	<18.0	<18.0	ug/m ³
123-72-8	Butanal	<4.64	<4.64	ppbv	<13.7	<13.7	ug/m ³
75-15-0	Carbon Disulfide	<4.64	25.8	ppbv	<14.4	80.2	ug/m ³
56-23-5	Carbon Tetrachloride	<4.64	<4.64	ppbv	<29.2	<29.2	ug/m ³
108-90-7	Chlorobenzene	<4.64	<4.64	ppbv	<21.4	<21.5	ug/m ³
75-00-3	Chloroethane	<4.64	<4.64	ppbv	<12.3	<12.3	ug/m ³
67-66-3	Chloroform	<4.64	<4.64	ppbv	<22.6	<22.6	ug/m ³
74-87-3	Chloromethane	<4.64	<4.64	ppbv	<9.49	<9.49	ug/m ³
156-59-2	cis-1,2-Dichloroethene	<4.64	<4.64	ppbv	<18.4	<18.4	ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<4.64	<4.64	ppbv	<21.1	<21.1	ug/m ³
110-82-7	Cyclohexane	<4.64	16.9	ppbv	<15.9	58.2	ug/m ³
75-71-8	Dichlorodifluoromethane	<4.64	<4.64	ppbv	<23.0	<23.0	ug/m ³
75-45-6	Difluorochloromethane	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
100-41-4	Ethylbenzene	<4.64	40.4	ppbv	<20.1	175	ug/m ³
87-68-3	Hexachlorobutadiene	<4.64	<4.64	ppbv	<49.3	<49.4	ug/m ³
66-25-1	Hexanal	<4.64	<4.64	ppbv	<19.0	<19.0	ug/m ³
110-54-3	Hexane	<4.64	56.9	ppbv	<16.3	200	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtis

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Sample Number 24268123

Sample ID BH106

Depth

Sampled Date 12/05/2021 00:00:00

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 0117

Sample Volume (ml) 50 Dispatch pressure (psia) -0.02 Initial pressure (psia) 12.71 Final pressure (psia) 19.67 Dilution 1.5476003147

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
74 88 4	Iodomethane	4.64	4.64	ppbv	26.9	27.0	ug/m
115-11-7	Isobutene	<4.64	24.4	ppbv	<10.6	55.9	ug/m ³
78-79-5	Isoprene	<4.64	<4.64	ppbv	<12.9	<12.9	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<9.29	148	ppbv	<40.3	640	ug/m ³
78-85-3	Methylacrolein	<4.64	<4.64	ppbv	<13.3	<13.3	ug/m ³
75-09-2	Methylene Chloride	<4.64	<4.64	ppbv	<16.1	<16.1	ug/m ³
1634-04-4	MTBE	<4.64	17.9	ppbv	<16.7	64.6	ug/m ³
91-20-3	Naphthalene	<4.64	<4.64	ppbv	<24.3	<24.3	ug/m ³
95-47-6	o-Xylene	<4.64	49.4	ppbv	<20.1	214	ug/m ³
110-62-3	Pentanal	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
109-66-0	Pentane	<4.64	105	ppbv	<13.7	309	ug/m ³
100-42-5	Styrene	<4.64	<4.64	ppbv	<19.7	<19.7	ug/m ³
127-18-4	Tetrachloroethene	<4.64	<4.64	ppbv	<31.5	<31.5	ug/m ³
108-88-3	Toluene	<4.64	303	ppbv	<17.5	1140	ug/m ³
156-60-5	trans-1,2-Dichloroethene	<4.64	<4.64	ppbv	<18.4	<18.4	ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<4.64	<4.64	ppbv	<21.1	<21.1	ug/m ³
79-01-6	Trichloroethene	<4.64	<4.64	ppbv	<24.9	<24.9	ug/m ³
75-69-4	Trichlorofluoromethane	<4.64	5.30	ppbv	<26.0	29.7	ug/m ³
26523-64-8	Trichlorotrifluoroethane	<4.64	<4.64	ppbv	<35.5	<35.5	ug/m ³
108-05-4	Vinyl Acetate	<4.64	<4.64	ppbv	<16.3	<16.3	ug/m ³
75-01-4	Vinyl Chloride	<4.64	<4.64	ppbv	<11.8	<11.8	ug/m ³
	TIC's					See Attached	



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80 **Client Reference:** LP2575 **Report Number:** 598950
Location: NoramtisNoramtis **Order Number:** LPO-3751 **Superseded Report:**

Table of Results - Appendix

Method No	Reference	Description
TM053	MEWAM Methane & Hydrocarbon gases HMSO 1988	Determination of Bulk Gas Composition
TM216	The Determination of Sulphur Gases in Natural Gas with Pulsed Flame Photometric Detector*, Varian application note number 60, Norman Kirshen	The Determination of Odourant Compounds in Gases by Gas Chromatography with PFPD Detection
TM330	EPA/625/R-96/010b (based on)	Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)
TM330H		
TM335		TPH in atmospheric, sub-slab and soil gas samples

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



CERTIFICATE OF ANALYSIS

Validated

SDG: 210514-80
Location: NoramtisNoramtis

Client Reference: LP2575
Order Number: LPO-3751

Report Number: 598950
Superseded Report:

Test Completion Dates

Lab Sample No(s)	24268123	24268122
Customer Sample Ref.	BH106	WS106
AGS Ref.		
Depth		
Type	Gas (G)	Gas (G)
Bulk Ga	17-May-2021	17-May-2021
Helium	19-May-2021	19-May-2021
Odourant Gas Analysis (G)	17-May-2021	17-May-2021
TPH in Gas samples	19-May-2021	19-May-2021
VOC's	19-May-2021	19-May-2021



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	210514-80
SAMPLE IDENTITY:	BH106
DATE REPORTED:	18/05/2021
ANALYST:	Gosia Polomska

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	Propane	5324	9594
2	Mixed Hydrocarbons - IS1	5180	
3	Silanol, trimethyl-	970	3573
4	Pentane, methyl-	3207	11294
5	Cyclopentane, methyl-	1199	4123
6	Hexane, methyl-	30	122
7	Octane	624	2912
8	Cyclotrisiloxane, hexamethyl-	689	6257
9	Benzene, ethylmethyl-	725	3561
10	Mixed Hydrocarbons - IS4	577.6	

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **"Mixed Hydrocarbons"**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	210514-80
SAMPLE IDENTITY:	WS106
DATE REPORTED:	19/05/2021
ANALYST:	Gosia Polomska

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	Propane	686	1237
2	Ethyl alcohol	330	621
3	Butane, methyl-	782	2305
4	Silanol, trimethyl-	1229	4526
5	Pentane, methyl-	2203	7758
6	Cyclopentane, methyl-	1557	5356
7	Hexane, methyl-	1095	4482
8	Heptane	153	626
9	Octane	349	1630
10	Cyclotrisiloxane, hexamethyl-	790.2	7177.1

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **"Mixed Hydrocarbons"**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



CERTIFICATE OF ANALYSIS

SDG:	210514-80	Client Reference:	LP2575	Report Number:	598950
Location:	NoramtisNoramtis	Order Number:	LPO-3751	Superseded Report:	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2017).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

APPENDIX G – GasfluX Data

GasfluX Data

unit_name	dateTimeStamp	GaugePres(mbar)	BaroPres(hpa)	Battery(v)	BHFlow(l/hr)	BHFlowPeak(l/hr)	CO2(‰vol)	CH4(‰vol)	O2_Ext(‰vol)	VOC(ppm)	Humidity(‰rh)	CO(ppm)	H2S(ppm)	Water_Level(m)	Temp(C)	RelHumidity(‰rh)	AtmosphericPressure(mbar)	Wind(km/h)	WindGust(km/h)	Precip1hr(mm/h)	PrecipToday(mm)
6147	12/05/2021 10:56	1.4	1003.57	6.77	0.4	0.66	17.23	0	2.35	0	11.14	0.68	0.08	16.44							
6147	12/05/2021 12:13	1.04	1003.81	6.67	2.56	3	20.46	0	1.2	0	7.12	1.3	0	16.44	12.5	65	1009	17.5	22.8	0	0
6147	12/05/2021 13:30	1.04	1003.57	6.75	2.81	3.44	19.19	0	0.9	0	6.19	1.25	0.02	16.43	13.1	60	1009	18.8	34.2	0	0
6147	12/05/2021 14:47	0.8	1003.81	6.75	2.91	3.37	17.98	0	0.98	0	5.3	0.33	0	16.43	13.3	57	1009	17.1	27.5	0	0
6147	12/05/2021 16:04	0.92	1003.57	6.52	5.37	5.84	17.94	0	0.62	0	4.5	1.68	0.02	16.43	15.6	51	1008	18.6	35.7	0	0
6147	12/05/2021 18:38	1.52	1002.37	6.46	7.98	8.09	17.94	0	0.23	0	4.62	2.25	0.02	16.42	14.2	50	1008	13.2	24.8	0	0
6147	12/05/2021 19:55	1.88	1002.14	6.41	9.38	9.53	18.04	0	0.3	0	5.21	2.04	0.02	16.42	13.4	53	1008	18.1	30.3	0.5	0.5
6147	12/05/2021 21:12	2.12	1001.66	6.39	9.05	9.19	17.78	0	0.29	0	5.6	1.35	0.04	16.42	12	60	1008	7.5	14.1	0	0
6147	12/05/2021 22:29	2.36	1001.18	6.38	10.04	10.23	18.31	0	0.28	0	5.96	1.41	0.04	16.42	11.3	67	1007	20.5	35.7	0	0
6147	12/05/2021 23:46	2.85	1000.7	6.36	11.66	11.85	18.22	0	0.39	0	6.28	0.74	0.04	16.41	10.7	72	1007	4.3	6	0	0
6147	13/05/2021 01:03	3.57	999.75	6.36	13.44	13.56	18.38	0	0.11	0	6.85	0.99	0.07	16.4	9.5	80	1006	9.6	16.2	0	0
6147	13/05/2021 02:20	3.81	999.75	6.35	14.38	14.47	18.7	0	0.06	0	7.19	0.9	0.07	16.4	9.2	86	1006	8.1	11.1	0	0
6147	13/05/2021 03:37	4.17	999.03	6.34	14.86	14.95	18.5	0	0.23	0	7.51	1.25	0.07	16.39	9.1	90	1005	17.1	31.8	0.8	0.8
6147	13/05/2021 04:54	4.05	998.56	6.33	15.24	15.3	18.44	0	0.18	0	7.73	1.35	0.02	16.39	8.8	92	1005	23.9	42.5	0	0
6147	13/05/2021 06:11	4.17	998.79	6.33	15.23	15.31	18.54	0	0.04	0	7.92	1.42	0.02	16.39	8.2	96	1005	4.5	6.4	0	0
6147	13/05/2021 07:27	4.41	998.79	6.34	15.36	15.44	18.52	0	0.28	0	8.08	1.19	0.06	16.39	8.6	94	1005	17.5	28.4	0.8	0.8
6147	13/05/2021 08:44	4.05	998.79	6.35	14.93	15.06	18.41	0	0.25	0	8.24	0.58	0.02	16.4	10.3	88	1005	6.8	19.2	0	0
6147	13/05/2021 10:01	3.93	999.27	6.74	14.39	14.44	18.54	0	0.15	0	8.44	0.74	0.06	16.4	11	86	1005	16.9	27.5	0	0
6147	13/05/2021 11:18	3.81	998.79	6.77	14.33	14.37	18.75	0	0.32	0	7.93	1.04	0.02	16.4	11.4	87	1005	2.6	3.8	1.6	1.6
6147	13/05/2021 12:35	3.69	999.27	6.61	14.32	14.47	18.53	0	0.25	0	7.36	0.98	0.04	16.4	11	85	1005	10.2	18.4	1.6	1.6
6147	13/05/2021 13:52	3.69	999.51	6.54	13.85	13.98	18.21	0	0.32	0	6.8	1.06	0.02	16.4	11	82	1005	24.8	43.3	0	0
6147	13/05/2021 15:09	3.33	999.75	6.54	13.41	13.53	18.03	0	0.19	0	6.93	1.46	0	16.4	12.4	73	1005	6.6	11.1	0.5	0.5
6147	13/05/2021 16:25	3.33	999.75	6.48	13.59	13.75	18.47	0	0.1	0	7.06	1.15	0.06	16.4	12.8	66	1005	28.6	46.1	0.5	0.5
6147	13/05/2021 17:42	3.45	999.75	6.56	13.52	13.61	18.42	0	0.34	0	6.85	0.94	0.02	16.4	13	65	1005	6.2	12.6	0	0
6147	13/05/2021 20:16	2.85	1000.23	6.41	12.21	12.44	17.98	0	0.25	0	6.75	1.58	0.02	16.41	9.8	74	1006	2.6	3.6	0.9	0.9
6147	13/05/2021 21:33	2.48	1000.7	6.39	10.03	10.17	18.19	0	0	0	6.98	1.1	0.04	16.42	8.7	82	1006	16.7	26.7	0	0
6147	13/05/2021 22:50	2.36	1000.7	6.38	9.57	9.64	18.29	0	0	0	7.18	0.85	0.06	16.43	7.7	89	1007	26.3	51.2	0	0
6147	14/05/2021 00:07	2.24	1001.18	6.37	8.99	9.17	18.43	0	0	0	7.42	1.05	0.06	16.41	7.2	94	1007	3	3.4	0	0
6147	14/05/2021 01:24	2.36	1000.7	6.36	9.3	9.39	18.22	0	0	0	7.39	1.26	0.12	16.42	6.9	93	1007	11.1	20.1	0	0
6147	14/05/2021 02:41	2.24	1001.18	6.35	8.37	8.46	18.38	0	0	0	7.38	0.45	0.04	16.42	7.3	93	1007	6.6	9.8	0	0
6147	14/05/2021 03:58	2.24	1000.7	6.34	8.59	8.67	18.68	0	0	0	7.31	0.38	0.06	16.41	8.1	90	1007	10.5	20.1	0	0
6147	14/05/2021 05:14	1.76	1001.18	6.33	5.78	6	18.14	0	0	0	7.18	0.42	0.06	16.42	8.4	90	1007	17.1	24.6	0.6	0.6
6147	14/05/2021 06:31	1.64	1001.66	6.33	3.72	4.08	18.14	0	0	0	7.2	0.38	0.06	16.43	8.8	92	1008	12.2	20.9	0.6	0.6
6147	14/05/2021 07:48	1.16	1002.61	6.33	-0.97	-0.73	6.13	0	17.92	0	6.75	0.29	0.06	16.45	9.2	89	1008	19.9	29.7	0	0
6147	14/05/2021 09:05	1.04	1003.57	6.4	-4.22	-4.04	1.4	0	19	0	7.48	0.23	0.04	16.45	10.3	80	1009	9.4	25.6	0.5	0.5
6147	14/05/2021 10:21	0.92	1003.81	6.48	-4.98	-4.83	0.36	0	19.31	0	7.95	0	0.02	16.46	11	71	1010	22.8	41.4	0	0
6147	14/05/2021 11:38	0.8	1004.05	6.6	-4.85	-4.6	0.17	0	19.43	0	7.43	0.08	0.04	16.46	11.8	66	1010	10	14.5	0	0
6147	14/05/2021 12:55	0.31	1004.28	6.62	-6.12	-5.9	0	0	19.55	0	6.8	0.08	0.04	16.46	12.6	62	1010	11.7	21.8	0	0
6147	14/05/2021 14:11	0.55	1004.28	6.69	-5.76	-5.58	0	0	19.65	0	6.49	0.1	0.04	16.46	13.5	58	1010	15.8	28.2	0	0
6147	14/05/2021 15:28	0.43	1004.05	6.58	-4.97	-4.72	0.01	0	19.77	0	6.28	0.2	0.06	16.45	13.1	61	1009	16.4	26.7	0	0
6147	14/05/2021 16:45	0.68	1003.81	6.49	-3.53	-3.35	0	0	19.81	0	6.08	0.19	0.02	16.45	13.1	61	1009	16.4	26.7	0	0
6147	14/05/2021 18:02	1.16	1003.57	6.44	-1.45	-1.28	0.02	0	19.77	0	6.08	0.18	0.04	16.45	12.5	63	1009	9.2	16.7	0	0
6147	14/05/2021 19:19	1.16	1002.61	6.42	0.05	0.1	0.03	0	19.67	0	6.37	0.1	0.02	16.44	11.9	69	1008	4.1	7	0	0
6147	14/05/2021 20:36	1.16	1002.37	6.4	1.19	1.27	3.39	0	16.94	0	6.78	0.53	0.06	16.44	11.4	73	1008	3.8	7	0	0
6147	14/05/2021 21:53	1.52	1002.14	6.39	1.27	1.65	5.99	0	15.36	0	6.92	0.37	0.1	16.43	10.8	78	1008	15.2	29.5	0.8	0.8
6147	14/05/2021 23:10	1.76	1001.66	6.38	4.55	4.7	8.42	0	13.7	0	6.94	1.3	0.06	16.42	9.7	85	1007	14.5	20.5	0.8	0.8
6147	15/05/2021 00:26	2.12	1000.94	6.37	6.98	7.17	10.25	0	12.1	0	6.93	1.83	0.06	16.41	9.2	90	1007	5.3	6.4	0.8	0.8
6147	15/05/2021 01:43	2.97	999.51	6.35	10.12	10.47	12.09	0	10.06	0	7.16	2.04	0.09	16.41	8.6	93	1006	12.6	24.3	0	0
6147	15/05/2021 03:00	3.69	998.32	6.34	13.3	13.54	13.96	0	7.26	0	7.59	2.41	0.04	16.39	8.3	94	1004	2.6	3.2	0	0
6147	15/05/2021 04:17	4.66	997.12	6.32	15.21	15.38	15.34	0	4.36	0	7.96	2.2	0.04	16.38	8.6	90	1004	12.6	23.9	1.5	1.5
6147	15/05/2021 05:34	5.26	995.93	6.32	16.52	16.59	16.45	0	2.52	0	8.31	2.15	0.06	16.37	9	91	1002	0.4	3	1.5	1.5
6147	15/05/2021 06:51	5.5	995.69	6.33	17.14	17.2	17.09	0	1.48	0	8.7	1.26	0.04	16.37	9.2	88	1002	7.3	10.2	0	0
6147	15/05/2021 08:07	5.98	994.74	6.37	17.81	17.87	17.6	0	1.1	0	8.95	1	0.04	16.35	9.2	88	1001	17.5	30.7	1.5	1.5
6147	15/05/2021 09:24	6.46	994.02	6.64	18.39	18.43	18.12	0	0.84	0	9.23	1.21	0.04	16.36	9.7	87	1000	14.7	25.6	0	0
6147	15/05/2021 10:41	6.83	993.54	6.66	18.79	18.84	18.22	0	0.71	0	9.56	1	0.04	16.35	10.3	85	999	21.8	39.5	0	0
6147	15/05/2021 11:58	7.07	993.54	6.77	19.05	19.09	18.19	0	0.52	0	9.63	0.75	0	16.35	11.7	79	999	13.2	22.6	0	0
6147	15/05/2021 13:15	6.83	993.54	6.52	18.96	19.02	18.36	0	0.27	0	9.23	1.1	0.02	16.35	14.8	64	999	13	21.8	0	0
6147	15/05/2021 14:31	6.71	993.78	6.67	18.72	18.8	18.28	0	0.28	0	8.93	1	0.02	16.36	13.1	77	999	4.3	9.6	1.7	1.7
6147	15/05/2021 15:48	6.34	993.78	6.77	18.53	18.58	18.35	0	0.26	0	7.9	0.63	0	16.36	11.3	79	999	9.4	13.9	0	0
6147	15/05/2021 17:05	6.34	993.78	6.6	18.54	18.61	18.3	0	0.22	0	7.85										

6147	20/05/2021 21:17	2.85	999.51	6.08	9.74	10	3.61	0	16.92	0	9.56	4.58	0.04	16.15	11.1	75	1005	40.4	63.6	1	1
6147	20/05/2021 22:34	2.97	998.32	6.07	10.75	10.96	4.18	0	16.47	0	9.67	6.16	0.02	16.16	10.7	74	1004	41.4	85.4	0	0
6147	20/05/2021 23:51	3.21	997.6	6.07	11.7	11.96	4.68	0	16	0	9.73	8.07	0.04	16.14	10.2	73	1003	37.8	62.3	1	1
6147	21/05/2021 01:07	3.69	996.65	6.06	12.73	12.91	5.12	0	15.53	0	9.92	9.07	0.09	16.11	9.3	77	1002	41.8	71.3	0	0
6147	21/05/2021 02:24	4.05	995.93	6.06	13.55	13.7	5.62	0	15.05	0	10.23	10.18	0.07	16.11	8.9	75	1001	38.2	65.3	0.5	0.5
6147	21/05/2021 03:41	4.53	994.74	6.05	14.49	14.66	6.1	0	14.53	0	10.36	11.82	0.07	16.1	8.9	75	1000	39.5	67.9	0	0
6147	21/05/2021 04:58	4.78	994.02	6.05	15.07	15.23	6.74	0	13.95	0	10.46	13.51	0.06	16.09	8.5	75	1000	37.8	65.8	0.5	0.5
6147	21/05/2021 06:15	5.14	993.54	6.04	15.51	15.64	7.3	0	13.39	0	10.61	14.31	0.16	16.08	9.2	71	999	37.6	64.3	0	0
6147	21/05/2021 07:31	5.02	993.07	6.04	15.96	16.12	7.88	0	12.84	0	10.76	13.51	0.07	16.08	9.4	74	998	38.2	63.4	0	0
6147	21/05/2021 08:48	5.38	992.83	6.04	16.31	16.44	8.28	0	12.3	0	10.86	14.78	0.04	16.09	10.8	76	998	35	60.4	0	0
6147	21/05/2021 10:05	5.38	992.83	6.04	16.36	16.53	8.82	0	11.83	0	10.84	15.36	0.04	16.09	13	63	998	39.9	71.7	0	0
6147	21/05/2021 11:21	5.26	992.35	6.04	16.52	16.66	9.22	0	11.36	0	10.65	14.78	0.06	16.08	12.9	62	997	45.1	79.6	0	0
6147	21/05/2021 12:38	5.5	992.11	6.03	16.48	16.6	9.61	0	10.91	0	10.23	13.94	0.02	16.09	12.4	67	997	46.3	80.5	1.3	1.3
6147	21/05/2021 13:55	5.62	992.11	6.03	16.66	16.83	9.96	0	10.44	0	10.17	13.62	0.04	16.09	12.4	67	997	45.7	81.1	0	0
6147	21/05/2021 17:45	5.5	991.63	6.01	16.92	17	11.31	0	9.15	0	10.67	12.14	0.02	16.09	10.1	79	997	42.1	74.7	1.3	1.3
6147	21/05/2021 19:02	5.86	991.4	6	17.06	17.16	11.69	0	8.72	0	10.79	11.66	0.06	16.09	9.6	82	996	40.1	64.9	0	0
6147	21/05/2021 20:19	5.86	991.4	6	17.01	17.14	12.21	0	8.36	0	11.01	10.92	0.06	16.1	9.5	84	996	35	66.6	0	0
6147	21/05/2021 21:36	5.62	991.16	5.99	17.03	17.36	12.36	0	7.99	0	11.08	10.08	0.06	16.11	8.9	88	996	19.4	30.3	0.5	0.5
6147	21/05/2021 22:53	5.5	991.4	5.99	17	17.06	12.71	0	7.68	0	11.21	9.39	0.06	16.11	8.6	91	996	22.6	36.5	0	0
6147	22/05/2021 00:10	5.5	991.63	5.98	16.87	16.98	13.06	0	7.32	0	11.18	8.76	0.04	16.11	9.4	86	997	14.3	23.3	0	0
6147	22/05/2021 01:26	5.5	991.4	5.97	16.84	16.91	13.5	0	7.03	0	11.32	9.02	0.09	16.11	9.8	85	997	40.1	52.3	0	0
6147	22/05/2021 04:00	5.38	992.11	5.96	16.38	16.45	14.03	0	6.48	0	11.41	7.54	0.07	16.13	9.4	88	997	22	39.7	0.4	0.4
6147	22/05/2021 05:17	5.02	992.83	5.96	15.66	15.79	14.13	0	6.24	0	11.37	6.69	0.07	16.14	9.5	89	998	20.7	32.9	0.4	0.4
6147	22/05/2021 06:34	4.17	994.02	5.95	14.38	14.5	14.1	0	6.11	0	11.32	6.53	0.09	16.16	10.1	88	999	18.6	32.9	0.4	0.4
6147	22/05/2021 07:50	3.33	995.45	5.95	12.45	12.63	14.05	0	6.02	0	11.31	4.26	0.09	16.17	10.4	87	1000	19.4	32.2	0.4	0.4
6147	22/05/2021 09:07	2.97	996.89	5.95	10.87	11.1	14.13	0	5.95	0	11.25	4.42	0	16.19	13	75	1002	14.3	29.9	0	0
6147	22/05/2021 10:24	2.6	997.36	5.95	9.53	9.63	13.89	0	5.83	0	10.76	4.37	0.04	16.2	12.1	76	1003	14.7	25.2	0	0
6147	22/05/2021 11:40	2.12	998.56	5.94	7.7	7.84	13.84	0	5.77	0	10.46	5.37	0.07	16.22	12.6	74	1004	14.1	26	0	0
6147	22/05/2021 14:14	1.76	999.75	5.94	5.74	5.89	13.4	0	5.74	0	9.81	4.47	0.04	16.23	14	69	1005	13.5	19	0	0
6147	22/05/2021 15:30	1.64	1000.23	5.94	5.27	5.37	13.47	0	5.7	0	9.65	4.05	0.06	16.23	13	76	1005	9	19.6	1	1
6147	22/05/2021 16:47	1.28	1000.7	5.94	4.03	4.15	13.12	0	5.69	0	9.38	4.21	0.02	16.24	13.3	75	1006	12.4	19.9	0	0
6147	22/05/2021 18:03	1.52	1000.94	5.93	2.59	2.88	12.95	0	5.65	0	8.94	4.53	0.07	16.26	12.2	75	1006	13.2	25.6	0	0
6147	22/05/2021 19:20	1.28	1001.18	5.92	1.81	1.89	13.06	0	5.61	0	9.19	5	0.07	16.26	11.9	69	1007	21.6	36.7	0	0
6147	22/05/2021 20:37	1.4	1001.66	5.92	0.29	0.36	12.68	0	5.8	0	9.27	3.47	0.06	16.27	11.3	71	1007	2.3	5.6	0	0
6147	22/05/2021 21:54	1.04	1002.61	5.91	-1.71	-1.6	1.69	0	19.2	0	8.95	0	0.04	16.28	10.7	74	1008	9.6	13	0	0
6147	22/05/2021 23:11	1.04	1003.33	5.9	-3.7	-3.53	0.37	0	19.34	0	9.81	0	0.09	16.31	9.5	79	1009	13.5	23.9	0.2	0.2
6147	23/05/2021 00:28	1.04	1003.81	5.89	-5.53	-5.4	0.14	0	19.25	0	10.17	0	0.02	16.31	8.9	76	1009	12	21.4	0	0
6147	23/05/2021 01:45	0.68	1004.05	5.87	-6.84	-6.72	0.03	0.01	19.17	0	10.73	0	0.07	16.32	8.3	75	1009	21.4	38.2	0	0
6147	23/05/2021 03:02	0.92	1004.05	5.86	-7.06	-7.04	0.03	0.01	19.05	0	11.23	0	0.02	16.32	7.3	76	1010	4.7	6.2	0	0
6147	23/05/2021 04:19	0.92	1004.76	5.85	-7.06	-7.06	0.01	0.01	18.99	0	11.34	0	0.07	16.33	6.7	73	1010	23.3	35	0	0
6147	23/05/2021 05:35	0.68	1004.76	5.85	-7.06	-7.06	0.02	0.01	18.95	0	11.74	0	0.08	16.34	5.9	73	1010	0.9	6	0	0
6147	23/05/2021 06:52	0.8	1005	5.84	-7.06	-7.06	0.03	0.01	18.92	0	12.45	0	0.04	16.35	7	73	1011	8.8	9.8	0	0
6147	23/05/2021 08:09	0.92	1005.24	5.84	-7.06	-7.06	0.01	0.01	18.94	0	12.97	0	0.06	16.34	8.7	69	1011	16.4	31.8	0	0
6147	23/05/2021 09:25	0.68	1005	5.85	-7.06	-7.06	0.04	0	19.1	0	12.1	0	0.04	16.34	9.7	71	1011	14.9	26.7	0	0
6147	23/05/2021 11:58	0.92	1004.28	5.85	-6.12	-5.81	0	0	19.46	0	11.24	0	0.02	16.34	11.9	61	1010	28.2	50.4	0	0
6147	23/05/2021 13:15	0.92	1004.28	5.85	-5.08	-4.87	0.01	0	19.53	0	10.83	0	0.04	16.33	11.8	65	1010	29.5	54	0	0
6147	23/05/2021 14:31	0.68	1004.28	5.85	-4.42	-4.22	0	0	19.6	0	10.76	0	0.02	16.33	12	67	1010	17.1	20.5	0	0
6147	23/05/2021 15:48	1.04	1003.09	5.84	-1.9	-1.56	0	0	19.61	0	10.2	0	0.02	16.32	11.9	68	1009	19	34.4	1.3	1.3
6147	23/05/2021 17:05	1.52	1001.66	5.84	1	1.33	0.99	0	18.9	0	10.27	0	0.04	16.28	12	68	1008	24.8	45.9	0	0
6147	23/05/2021 18:22	1.76	1000.47	5.82	3.46	3.8	3.29	0	17.38	0	10.3	0.44	0.02	16.28	11.4	69	1006	32.2	59.4	0	0
6147	23/05/2021 19:39	1.88	999.75	5.81	5.27	5.41	4.69	0	16.4	0	10.45	1.41	0.04	16.27	11.9	71	1006	34.2	65.5	1.3	1.3
6147	23/05/2021 20:55	2.48	998.32	5.8	7.43	7.7	6.06	0	15.37	0	10.76	3.52	0.04	16.25	11.3	77	1004	7	8.3	2.4	2.4
6147	23/05/2021 22:12	2.73	997.36	5.79	8.98	9.21	7.34	0	14.26	0	11.05	5.74	0.07	16.24	10.9	81	1003	15.8	27.5	2.4	2.4
6147	23/05/2021 23:29	2.6	996.89	5.78	9.58	9.8	8.42	0	13.14	0	11.15	6.85	0.06	16.24	10.6	85	1002	24.3	42.9	0	0
6147	24/05/2021 00:46	2.73	996.89	5.77	9.43	9.55	9.25	0	12.06	0	11.16	7.22	0.09	16.23	10.2	86	1003	31	50.2	2.4	2.4
6147	24/05/2021 02:03	2.85	996.65	5.76	9.92	10.13	10.25	0	10.91	0	11.29	8.91	0.06	16.23	9.6	89	1002	32.2	57	0	0
6147	24/05/2021 04:36	2.85	996.65	5.74	10.1	10.16	11.32	0	8.95	0	11.25	9.81	0.09	16.26	8.5	91	1002	7.3	11.3	0	0
6147	24/05/2021 05:53	3.33	996.65	5.73	10.71	10.81	11.74	0	8.18	0	11.35	9.13	0.04	16.27	8.2	91	1002	7	12.4	0	0
6147	24/05/2021 07:10	3.21	996.89	5.72	10.98	11.09	12.18	0	7.6	0	11.69	9.76	0.07	16.27	9.5	87	1003	14.3	25.2	0	0
6147	24/05/2021 09:43	2.6	996.89	5.72	9.5	9.67	12.93	0	6.54	0	11.77	10.45	0.14	16.28	10.5	77	1002	11.7	14.5	0	0
6147	24/05/2021 11:00	2.85	996.65	5.71	9.																

6136	02/06/2021 11:18	2.91	1005.94	6.77	8.6	8.7	6.01	0.02	12.09	0.27	17.63	0	0.46	16.86	22	56	1012	14.8	22.2	0	0
6136	02/06/2021 13:11	3.16	1006.18	6.77	8.69	8.78	6.2	0.02	11.87	0.27	16.59	0	0.5	16.87	23.3	52	1012	20.4	26.7	0	0
6136	02/06/2021 15:03	2.65	1006.66	6.53	8.06	8.25	6.35	0.03	11.61	0.27	15.9	0	0.94	16.87	25.4	46	1012	16.7	32.5	0	0
6136	02/06/2021 16:56	1.77	1006.42	6.64	7.79	7.86	6.64	0.02	11.2	0.46	16.33	0	0.78	16.87	25.3	40	1011	13	27.3	0.5	0.5
6136	02/06/2021 18:49	1.01	1007.38	6.45	6.64	6.78	7.01	0.02	10.8	0.27	16.51	0	0.69	16.88	23.7	43	1012	13	21.4	0	0
6136	02/06/2021 20:41	0.13	1008.34	6.41	4.01	4.23	7.06	0.01	10.45	0.46	17.4	0	0.46	16.91	21	54	1013	7.4	14.7	0.5	0.5
6136	02/06/2021 22:33	-0.63	1009.3	6.39	-0.07	0	1.82	0.01	18.73	0.27	18.44	0	0.23	16.92	17.1	83	1014	7.4	12	3	3
6136	03/06/2021 00:26	-0.63	1009.78	6.38	-0.86	-0.8	0.12	0.05	20.44	0.12	19.81	0	0.21	16.93	17.6	77	1014	3.7	12.8	0	0
6136	03/06/2021 02:18	-0.51	1009.54	6.37	-0.41	-0.3	0.01	0.04	20.22	0.23	20.47	0	0.19	16.93	16.3	85	1014	3.7	13.2	0	0
6136	03/06/2021 04:10	-0.63	1010.02	6.36	-2.12	-1.91	0.01	0.04	20.21	0.23	20.75	0	0.26	16.93	16.8	86	1015	1.9	8.3	0	0
6136	03/06/2021 06:02	-1.52	1011.22	6.36	-5.58	-5.37	0	0.04	20.19	0.15	20.86	0	0.12	16.95	17.2	93	1015	3.7	6.4	0	0
6136	03/06/2021 07:53	-1.39	1012.66	6.54	-6.72	-6.72	0	0.03	20.22	0.27	21.44	0	0.17	16.96	17.2	88	1016	7.4	9.8	0.2	0.2
6136	03/06/2021 09:44	-0.76	1013.62	6.77	-6.72	-6.72	0.01	0.06	20.46	0	22.65	0	0.18	16.97	18.1	78	1017	5.6	16.9	0	0
6136	03/06/2021 11:37	0.38	1013.86	6.77	-6.72	-6.72	0	0.05	20.94	0.04	19.95	0	0.19	16.97	17.4	80	1018	11.1	16.4	0	0
6136	03/06/2021 13:29	0.25	1014.1	6.77	-6.72	-6.72	0.01	0.06	21.18	0.04	18.68	0	0.18	16.98	18.2	72	1018	9.3	20.7	0	0
6136	03/06/2021 15:22	0.25	1014.34	6.77	-6.72	-6.72	0.02	0.05	21.21	0.19	18.18	0	0.34	16.98	19.1	65	1019	9.3	20.3	0	0
6136	03/06/2021 17:15	0	1013.86	6.62	-6.72	-6.72	0.01	0.06	21.17	0.08	18.14	0	0.75	16.98	18	66	1019	13	24.1	0	0
6136	03/06/2021 19:08	-1.39	1013.86	6.45	-6.72	-6.72	0.01	0.04	20.94	0.04	18.38	0	0.55	16.98	17.8	69	1019	11.1	22.4	0	0
6136	03/06/2021 21:01	-2.4	1014.34	6.41	-6.72	-6.72	0.02	0.04	20.64	0	19.67	0	0.35	16.99	16.3	71	1020	7.4	20.1	0	0
6136	03/06/2021 22:53	-3.03	1015.54	6.39	-6.72	-6.72	0.01	0.04	20.24	0	21.14	0	0.28	17	15.8	75	1021	7.4	11.3	3	3
6136	04/06/2021 00:45	-3.16	1015.3	6.37	-6.72	-6.72	0.01	0.04	20.07	0.04	22.35	0	0.21	17	14	86	1021	5.6	10.5	0	0
6136	04/06/2021 02:38	-3.03	1015.3	6.35	-6.72	-6.72	0.01	0.02	19.87	0.15	23.11	0	0.23	17	12.2	86	1022	9.3	18.4	0	0
6136	04/06/2021 04:30	-3.54	1015.54	6.34	-6.72	-6.72	0.01	0.04	19.82	0.19	23.66	0	0.16	17	11	87	1022	7.4	9.6	0	0
6136	04/06/2021 06:22	-3.16	1015.54	6.36	-6.72	-6.72	0.02	0.06	19.8	0.27	24.43	0	0.19	17	10.7	85	1023	5.6	13.5	0	0
6136	04/06/2021 08:13	-2.53	1016.5	6.43	-6.72	-6.72	0.01	0.03	19.88	0.12	24.26	0	0.19	17.01	11.9	80	1023	7.4	12.2	0	0
6136	04/06/2021 10:05	-2.78	1016.99	6.48	-6.72	-6.72	0.02	0.05	19.98	0.19	22.77	0	0.16	17.01	12.5	69	1024	9.3	13.7	0	0
6136	04/06/2021 10:05	-2.78	1016.99	6.48	-6.72	-6.72	0.02	0.05	19.98	0.19	22.77	0	0.16	17.01	12.5	69	1024	9.3	13.7	0	0
6136	04/06/2021 11:57	-2.65	1016.74	6.47	-6.72	-6.72	0.02	0.04	19.98	0.04	22.75	0	0.18	17.01	13.7	69	1024	7.4	13.7	0	0
6136	04/06/2021 13:48	-2.4	1016.74	6.67	-6.72	-6.72	0	0.03	20.09	0.08	23.1	0	0.21	17.01	14.4	64	1023	5.6	7.5	3	0
6136	04/06/2021 15:41	-2.15	1016.74	6.6	-6.72	-6.72	0	0.03	20.18	0.19	22.36	0	0.23	17	15.7	50	1023	1.9	7.5	0	0
6136	04/06/2021 17:32	-2.28	1016.5	6.46	-6.72	-6.72	0.01	0.04	20.2	0.04	22.43	0	0.19	17.01	16.9	52	1023	7.4	11.3	0	0
6136	04/06/2021 19:24	-2.4	1016.5	6.44	-6.72	-6.72	0	0.04	20.2	0.04	22.31	0	0.16	17.01	16.9	50	1022	3.7	10.9	0	0
6136	04/06/2021 21:17	-2.91	1017.95	6.39	-6.72	-6.72	0.01	0.04	20.12	0.04	22.54	0	0.21	17.02	14.9	61	1023	3.7	8.3	0	0
6136	04/06/2021 21:17	-2.91	1017.95	6.39	-6.72	-6.72	0.01	0.04	20.12	0.04	22.54	0	0.21	17.02	14.9	61	1023	3.7	8.3	0	0
6136	04/06/2021 23:09	-3.29	1017.95	6.36	-6.72	-6.72	0.01	0.02	20.03	0.19	23.01	0	0.23	17.01	12.4	86	1024	1.9	6.8	0	0
6136	05/06/2021 01:01	-3.54	1017.71	6.34	-6.72	-6.72	0	0.02	19.91	0.23	22.96	0	0.16	17.01	10.4	94	1024	3.7	5.8	0	0
6136	05/06/2021 02:53	-3.67	1017.95	6.33	-6.72	-6.72	0	0.05	19.81	0.27	23.83	0	0.19	17.02	8.8	97	1024	1.9	7.3	0	0
6136	05/06/2021 04:45	-3.54	1017.71	6.32	-6.72	-6.72	0.02	0.06	19.6	0.27	23.98	0	0.18	17.02	7.3	97	1024	1.9	6	0	0
6136	05/06/2021 06:37	-3.92	1018.67	6.34	-6.72	-6.72	0.01	0.05	19.58	0.23	24.71	0	0.18	17.02	8.8	97	1024	3.7	9.4	0	0
6136	05/06/2021 08:28	-3.54	1018.91	6.71	-6.72	-6.72	0.01	0.06	19.65	0.23	25.34	0	0.16	17.02	12.6	89	1024	3.7	12.6	0	0
6136	05/06/2021 10:19	-1.9	1019.15	6.77	-6.72	-6.72	0.01	0.04	20.14	0.08	24.4	0	0.18	17.03	17.8	63	1024	3.7	7.5	0	0
6136	05/06/2021 12:11	-1.26	1019.39	6.77	-6.72	-6.72	0.01	0.05	20.99	0	20.22	0	0.12	17.02	19.3	53	1024	7.4	8.5	0	0
6136	05/06/2021 14:04	-0.76	1018.91	6.77	-6.72	-6.72	0.01	0.06	21.15	0	18.39	0	0.14	17.02	20.8	39	1024	9.3	14.3	0	0
6136	05/06/2021 15:57	-1.26	1018.43	6.77	-6.72	-6.72	0.02	0.05	21.14	0	19.17	0	0.14	17.02	21.4	40	1023	9.3	17.1	0	0
6136	05/06/2021 17:49	-0.76	1018.43	6.67	-6.72	-6.72	0	0.05	21.19	0	19.72	0	0.19	17.01	21.3	44	1023	9.3	15.8	0	0
6136	05/06/2021 19:42	-1.64	1018.67	6.45	-6.72	-6.72	0.01	0.05	21.16	0	18.37	0	0.25	17.01	19.7	44	1023	5.6	17.1	0	0
6136	05/06/2021 21:35	-3.16	1018.91	6.42	-6.72	-6.72	0	0.06	20.73	0	19.17	0	0.34	17.02	17.5	64	1024	5.6	12	0	0
6136	05/06/2021 23:27	-4.05	1018.91	6.39	-6.72	-6.72	0	0.03	20.22	0.04	22.05	0	0.28	17.02	14	80	1024	3.7	7	0	0
6136	06/06/2021 01:20	-3.92	1018.91	6.37	-6.72	-6.72	0.01	0.04	19.94	0.23	23.83	0	0.26	17.02	14.5	82	1024	5.6	9	0	0
6136	06/06/2021 03:12	-4.17	1019.15	6.35	-6.72	-6.72	0.02	0.02	19.67	0.23	24.74	0	0.3	17.03	14.6	86	1024	3.7	9.8	0	0
6136	06/06/2021 05:04	-3.79	1018.91	6.34	-6.72	-6.72	0.01	0.06	19.59	0.27	25.5	0	0.25	17.02	14.2	92	1024	3.7	7	3	3
6136	06/06/2021 06:56	-3.29	1018.91	6.47	-6.72	-6.72	0	0.05	19.63	0.08	26.13	0	0.23	17.01	14.3	94	1024	1.9	7.5	0	0
6136	06/06/2021 06:56	-3.29	1018.91	6.47	-6.72	-6.72	0	0.05	19.63	0.08	26.13	0	0.23	17.01	14.3	94	1024	1.9	7.5	0	0
6136	06/06/2021 08:47	-2.4	1019.15	6.78	-6.72	-6.72	0.02	0.04	19.75	0.19	26.21	0	0.21	17.02	15.8	90	1024	3.7	10.5	1.5	1.5
6136	06/06/2021 12:30	-1.14	1019.15	6.77	-6.72	-6.72	0.01	0.05	20.97	0	21.77	0	0.19	17.02	16	88	1025	3.7	9.6	0.3	0.3
6136	06/06/2021 14:23	-1.26	1019.15	6.77	-6.72	-6.72	0.01	0.04	21	0	20.81	0	0.19	17.02	19.5	70	1024	3.7	7.7	0	0
6136	06/06/2021 16:16	-0.63	1018.67	6.68	-6.72	-6.72	0.01	0.05	21.06	0	21.36	0	0.16	17.02	21.3	71	1024	5.6	13.7	0	0
6136	06/06/2021 18:08	0	1017.95	6.62	-6.72	-6.72	0.01	0.06	21.2	0	21.01	0	0.48	17.01	20	70	1023	5.6	9.6	1.3	1.3
6136	06/06/2021 20:00	-0.51	1017.95	6.45	-6.72	-6.72	0.02	0.05	21.19	0	18.73	0	0.78	17.01	19.5	70	1023	5.6	10.7	0	0
6136	06/06/2021 21:54	-2.53	1018.67	6.41	-6.72	-6.72	0.01	0.06	20.71	0	20.25	0	0.39	17.02	17.7	80	1024	5.6			

6136	15/06/2021 09:41	0.25	1016.5	6.77	-2.92	-2.8	0.01	0.06	20.54	0.27	30.83	0	0.35	17.04	14.8	63	1024	7.3	11.3	0	0
6136	15/06/2021 11:33	1.26	1015.78	6.76	-1.25	-1.12	0.01	0.06	21	1.04	25.61	0	0.37	17.04	17	51	1022	5.6	10.7	0	0
6136	15/06/2021 15:19	1.26	1014.1	6.7	3.2	3.29	2.16	0.03	18.5	1.61	23.62	0	0.48	17	21.4	44	1020	9.3	16	0	0
6136	15/06/2021 17:11	1.14	1013.38	6.75	4.57	4.69	3.3	0.03	16.59	1.23	23.73	0	0.51	17	22.2	40	1019	9.3	17.1	0	0
6136	15/06/2021 20:56	0.51	1012.18	6.42	7.16	7.26	4.13	0.03	14.69	1.04	23.92	0	0.53	16.99	22	47	1017	7.4	14.9	0	0
6136	15/06/2021 22:49	-0.13	1011.7	6.4	7.42	7.6	4.69	0.02	13.77	1.04	27.65	0	0.64	16.98	16.2	72	1016	0	5.8	0	0
6136	16/06/2021 00:41	0	1010.74	6.38	9.02	9.08	5.28	0.02	12.81	1.42	29.89	0	0.55	16.97	13.1	88	1016	1.9	6.6	0	0
6136	16/06/2021 02:33	0.51	1009.78	6.36	10.66	10.74	5.75	0.02	11.86	1.61	31.14	0	0.48	16.97	13.2	81	1014	1.9	8.8	0	0
6136	16/06/2021 04:25	0.76	1008.34	6.33	12.55	12.66	6.5	0.03	11.02	1.61	31.79	0	0.53	16.96	13.2	85	1013	3.7	7.5	0	0
6136	16/06/2021 06:17	1.39	1007.38	6.33	13.51	13.55	7.15	0.01	10.16	1.61	32.27	3.3	0.44	16.95	14.7	94	1013	5.6	7.7	0	0
6136	16/06/2021 08:09	1.9	1007.38	6.44	13.95	13.99	7.7	0.02	9.64	1.61	31.75	5.65	0.62	16.96	17.6	79	1012	3.7	10.9	0	0
6136	16/06/2021 10:00	3.54	1007.38	6.77	14.1	14.19	7.64	0.02	9.63	1.61	30.95	3.92	0.71	16.95	21.2	65	1012	7.4	16.2	0	0
6136	16/06/2021 11:52	4.68	1006.9	6.76	14.62	14.68	7.44	0.04	9.41	1.61	25.7	10.67	0.82	16.94	21.6	54	1011	11.1	17.9	0	0
6136	16/06/2021 13:44	5.44	1005.94	6.76	15.5	15.57	7.78	0.04	8.85	1.61	23.53	24.39	0.89	16.93	23.9	47	1010	11.1	21.8	0	0
6136	16/06/2021 15:37	5.56	1004.98	6.76	16.61	16.63	8.3	0.04	8.17	1.61	23.06	47.03	1.16	16.91	26.5	38	1010	9.3	22.4	0	0
6136	16/06/2021 17:30	6.07	1004.02	6.71	17.28	17.33	9.02	0.02	7.54	1.61	22.85	14.22	1.39	16.9	25.1	37	1009	13	20.9	0	0
6136	16/06/2021 19:23	5.18	1003.3	6.44	17.95	17.98	10.19	0.04	6.76	1.61	24.86	2.69	1.1	16.9	23.4	46	1008	7.4	14.3	0	0
6136	16/06/2021 21:16	3.29	1004.74	6.42	16.73	16.88	10.73	0.02	6.14	1.61	26.57	4.31	1	16.92	21.9	53	1008	5.6	12.8	0	0
6136	17/06/2021 01:01	4.17	1002.58	6.38	17.87	17.99	12.04	0.03	5.08	1.61	29.18	17.71	0.76	16.89	17.3	88	1009	9.3	9	0.3	0.3
6136	17/06/2021 02:53	4.17	1002.82	6.36	18.05	18.22	12.51	0.02	4.65	1.61	29.48	19.21	0.71	16.9	16.2	93	1009	11.1	16.2	3	3
6136	17/06/2021 04:45	4.3	1002.1	6.34	18.47	18.53	12.87	0.02	4.29	1.61	29.45	19.69	0.71	16.89	14.9	94	1009	11.1	19.4	3	3
6136	17/06/2021 06:36	4.3	1002.82	6.34	18.03	18.15	13.13	0.03	3.96	1.61	29.51	18.2	0.71	16.91	14.9	96	1009	9.3	15.6	0	0
6136	17/06/2021 08:28	4.17	1003.06	6.41	17.95	18.01	13.3	0.02	3.69	1.61	29.34	16.53	0.68	16.92	15.2	94	1010	9.3	15.4	0	0
6136	17/06/2021 10:20	4.17	1003.06	6.51	17.48	17.6	13.35	0.02	3.47	1.61	28.64	16.47	0.73	16.92	15.8	90	1011	9.3	18.4	0	0
6136	17/06/2021 14:03	4.17	1004.98	6.69	15.96	16	13.04	0.03	3.14	1.61	27.9	14.74	0.71	16.94	20.3	74	1012	9.3	17.5	0	0
6136	17/06/2021 15:56	3.03	1005.7	6.49	15.06	15.12	13.39	0.01	2.98	1.61	26.31	15.43	0.66	16.95	20.4	71	1012	9.3	16.9	1	1
6136	17/06/2021 17:48	2.91	1005.94	6.45	14.45	14.49	13.41	0.01	2.82	1.61	27.06	11.81	0.68	16.96	19.4	75	1013	7.4	16.4	0	0
6136	17/06/2021 19:40	2.02	1006.9	6.42	13.54	13.58	13.57	0.03	2.65	1.61	27.68	9.3	0.68	16.97	18.6	79	1014	7.4	14.7	3	3
6136	17/06/2021 21:33	1.14	1007.38	6.38	12.76	12.98	13.74	0.02	2.49	1.61	28.33	6.3	0.59	16.97	16.6	80	1015	11.1	18.8	3	3
6136	18/06/2021 01:17	1.39	1006.9	6.33	12.42	12.5	13.73	0.02	2.2	1.61	28.89	4.74	0.59	16.98	14.3	92	1016	7.4	14.9	3	0.3
6136	18/06/2021 03:09	1.39	1006.9	6.33	13.01	13.13	14	0.03	2.09	1.61	29.06	4.28	0.51	16.97	13.2	96	1016	9.3	14.5	0	0
6136	18/06/2021 05:01	1.26	1006.66	6.33	13.09	13.17	14.17	0.03	2	1.61	29.11	3.47	0.55	16.97	12	93	1016	9.3	17.1	0.3	3
6136	18/06/2021 06:53	1.39	1006.42	6.33	13.06	13.1	14.34	0.01	1.9	1.61	29.23	3.43	0.5	16.97	12.1	91	1016	9.3	16.2	0.5	0.5
6136	18/06/2021 08:45	1.52	1005.94	6.35	13.49	13.53	14.39	0.02	1.8	1.61	29.3	3.3	0.6	16.96	13.4	92	1016	9.3	20.1	3	3
6136	18/06/2021 10:37	1.77	1005.46	6.41	14.19	14.3	14.58	0.02	1.75	1.61	29.13	2.55	0.53	16.96	13.2	93	1016	16.7	28.8	0	0
6136	18/06/2021 12:29	1.52	1005.46	6.42	14.12	14.18	14.78	0.02	1.67	1.61	29.41	1.77	0.5	16.95	12.2	95	1016	18.5	31.6	3	3
6136	18/06/2021 14:20	1.9	1004.98	6.51	14.51	14.54	14.77	0.02	1.6	1.61	29.37	1.64	0.5	16.95	12.5	97	1015	13	26.5	3	3
6136	18/06/2021 16:12	2.15	1004.98	6.5	14.32	14.38	14.91	0.02	1.56	1.61	28.73	1.32	0.48	16.95	12.6	97	1015	14.8	25.2	3	3
6136	18/06/2021 18:04	1.64	1005.22	6.43	14.47	14.54	14.91	0.01	1.46	1.61	28.93	1.87	0.48	16.96	11.1	100	1015	14.8	26.5	3	3
6136	18/06/2021 19:56	0.88	1005.94	6.36	12.95	12.99	14.77	0.02	1.36	1.61	29.05	0.14	0.46	16.97	11.9	94	1015	14.8	27.8	3	0
6136	18/06/2021 21:48	0.51	1006.9	6.32	11.62	11.73	14.76	0.02	1.29	1.61	29.52	0	0.37	16.98	11.6	94	1015	13	25	0	0
6136	19/06/2021 01:33	-0.13	1008.34	6.32	8.8	9.07	14.39	0.01	1.23	1.61	30.07	0	0.44	17	10.9	93	1016	7.4	16.9	0	0
6136	19/06/2021 03:25	-0.38	1008.58	6.31	7.46	7.73	14.14	0.02	1.21	1.61	30.27	0	0.43	17	10.9	94	1015	9.3	11.7	0	0
6136	19/06/2021 05:17	-0.76	1008.82	6.31	5.29	5.51	14.33	0.03	1.19	1.61	30.46	0	0.35	17	10.9	95	1016	5.6	9.4	0	0
6136	19/06/2021 07:08	-1.01	1009.54	6.32	4.76	5.2	14.3	0.03	1.2	1.61	30.67	0	0.34	17.01	11.5	94	1016	3.7	10	0	0
6136	19/06/2021 09:00	-0.25	1009.06	6.4	6.18	6.34	14.18	0.05	1.17	1.61	30.53	0	0.37	17	13.3	84	1016	7.4	10.7	0	0
6136	19/06/2021 10:52	-0.13	1009.54	6.49	6.16	6.44	13.91	0.02	1.2	1.61	30.12	0	0.35	17.01	13.6	82	1015	7.4	12	0	0
6136	19/06/2021 12:44	0.51	1008.82	6.72	6.57	6.71	14.08	0.02	1.18	1.61	29.67	0	0.41	17	14.5	75	1015	9.3	18.1	0	0
6136	19/06/2021 14:36	0.88	1007.62	6.66	9.32	9.65	14.47	0.03	1.13	1.61	28.65	0	0.51	16.98	15.9	75	1014	11.1	22.2	0	0
6136	19/06/2021 16:28	1.39	1006.9	6.5	11.44	11.5	14.62	0.02	1.13	1.61	28.05	0	0.41	16.98	16.9	70	1013	11.1	20.1	0	0
6136	19/06/2021 18:20	1.39	1005.7	6.45	12.41	12.67	14.81	0.03	1.03	1.61	28.01	0	0.41	16.97	15.5	74	1012	14.8	20.5	0	0
6136	19/06/2021 20:12	2.02	1004.26	6.42	14.89	14.98	15.7	0.02	0.93	1.61	28.78	0	0.37	16.94	14.1	83	1012	11.1	23.9	0	0
6136	19/06/2021 23:56	2.28	1003.3	6.38	15.57	15.59	16.32	0.02	0.8	1.61	29.49	0	0.44	16.94	12.2	97	1011	7.4	19.9	3	0
6136	20/06/2021 01:48	2.78	1002.1	6.34	16.32	16.37	16.28	0.03	0.73	1.61	29.59	0.01	0.46	16.93	11.9	97	1011	7.4	12.8	3	4.1
6136	20/06/2021 05:32	3.03	1002.1	6.31	16.81	16.9	16.72	0.02	0.61	1.8	29.76	0	0.41	16.93	11.1	98	1009	9.3	17.9	0	0
6136	20/06/2021 07:24	3.16	1001.62	6.41	16.68	16.83	16.73	0.03	0.57	1.61	29.86	0	0.41	16.93	11.2	97	1010	9.3	17.1	1.2	1.2
6136	20/06/2021 09:16	2.78	1002.82	6.45	15.84	15.87	16.76	0.02	0.53	1.8	29.29	0	0.39	16.94	11.3	99	1010	11.1	17.5	3	3
6136	20/06/2021 11:07	3.29	1003.06	6.67	15.81	15.94	16.71	0.02	0.51	1.61	29.18	0	0.37	16.94	12.2	95	1010	11.1	20.5	3	3
6136	20/06/2021 12:59	3.54	1002.34	6.77	16.09	16.13	16.66	0.02	0.51	1.61	28.08	0									

unit_name	dataTimeStamp	GaugePres(mbar)	BaroPres(hpa)	Battery(v)	BHFlow(l/hr)	BHFlowPeak(l/hr)	CO2(%vol)	CH4(%vol)	O2_Ext(%vol)	VOC(ppm)	Humidity(%rh)	CO(ppm)	H2S(ppm)	Water_Level(m)	Temp(C)	RelHumidity(%rh)	AtmosphericPressure(mbar)	Wind(km/h)	WindGust(km/h)	Precip1hr(mm/h)	PrecipToday(mm)
6022	12/05/2021 12:51	-0.68	1003.84	6.51	-0.03	-0.03	0.7	0	19.9	0	5.54	0.78	0	1.41	13.2	62	1006	10.7	12.8	0	0
6022	12/05/2021 14:08	1.39	1003.84	6.71	-0.03	-0.03	0.52	0	20.12	0	5.21	0.22	0.01	1.41	14.6	55	1006	6.4	7.7	0.5	0.5
6022	12/05/2021 15:26	0.54	1004.32	6.71	-0.03	-0.02	0.48	0	20.39	0	4.72	0.55	0	1.42	14	58	1006	4.3	5.1	0	0
6022	12/05/2021 16:45	-0.93	1003.12	6.34	-0.03	-0.03	0.37	0	20.41	0	3.71	1.82	0.02	1.39	13.2	59	1006	2.1	2.6	1.2	1.2
6022	12/05/2021 18:03	-1.41	1003.36	6.37	-0.03	-0.03	0.25	0	20.21	0	4.13	1.56	0	1.39	11.2	67	1007	4.3	5.1	3	3
6022	12/05/2021 19:21	1.51	1004.56	6.3	-0.03	-0.03	0.24	0	20.07	0	4.29	1.22	0.07	1.41	11.9	71	1007	6.4	7.7	0.5	0.5
6022	12/05/2021 20:39	1.63	1001.68	6.26	-0.03	-0.03	0.15	0	19.9	0	4.65	0.93	0.03	1.44	12.5	68	1008	6.4	7.7	0	0
6022	12/05/2021 21:57	3.22	1002.64	6.25	-0.03	-0.03	0.14	0	19.78	0	4.92	0.93	0.08	1.44	9.5	79	1009	4.3	5.1	0	0
6022	12/05/2021 23:15	0.78	1001.44	6.24	-0.03	-0.03	0.14	0	19.71	0	5.08	0.61	0.08	1.42	7.7	88	1009	2.1	2.6	0	0
6022	13/05/2021 00:33	-0.07	1001.44	6.23	-0.03	-0.03	0.15	0	19.63	0	5.21	0.27	0.1	1.45	8	92	1009	2.1	2.6	0	0
6022	13/05/2021 01:51	-2.27	1000.96	6.22	-0.03	-0.03	0.16	0	19.61	0	5.35	0.65	0.1	1.44	6.4	98	1009	2.6	9.4	0	0
6022	13/05/2021 03:08	0.9	999.52	6.21	-0.03	-0.03	0.15	0	19.57	0	5.33	0.31	0.13	1.45	5.1	99	1009	2.1	2.6	0	0
6022	13/05/2021 04:26	1.51	998.55	6.2	-0.03	-0.03	0.16	0	19.53	0	5.33	0.44	0.12	1.45	4.1	97	1009	6.4	7.7	0	0
6022	13/05/2021 05:44	3.22	1001.2	6.19	-0.03	-0.03	0.16	0	19.51	0	5.34	0.27	0.07	1.43	4.1	97	1009	0	0	0	0
6022	13/05/2021 07:02	-2.02	1000.24	6.19	-0.03	-0.03	0.17	0	19.49	0	5.37	0.26	0.1	1.46	5.3	91	1009	2.1	2.6	0	0
6022	13/05/2021 08:20	0.9	998.8	6.19	-0.03	-0.03	0.17	0	19.46	0	5.39	0.1	0.1	1.43	7.1	87	1009	2.1	2.6	0	0
6022	13/05/2021 09:38	-0.93	1001.68	6.24	-0.03	-0.03	0.18	0	19.46	0	5.46	0.36	0.12	1.42	10.7	78	1010	10.7	12.8	0	0
6022	13/05/2021 10:55	1.51	999.52	6.39	-0.03	-0.03	0.16	0	19.58	0	5.82	0.11	0.1	1.45	10.6	81	1010	10.7	12.8	0	0
6022	13/05/2021 12:12	3.95	1000.96	6.72	-0.03	-0.03	0.15	0	19.77	0	5.33	0.24	0.1	1.46	11.9	76	1010	14.9	17.9	0	0
6022	13/05/2021 13:30	0.54	1000.96	6.4	-0.03	-0.03	0.12	0	19.91	0	4.92	0.11	0.03	1.46	12.7	73	1010	14.9	17.9	0	0
6022	13/05/2021 14:48	2.97	1000.96	6.39	-0.03	-0.03	0.14	0	19.9	0	4.68	0.36	0.07	1.47	14.9	69	1010	19.2	23.1	0	0
6022	13/05/2021 16:06	-0.68	999.28	6.37	-0.03	-0.03	0.15	0	19.87	0	4.74	0.12	0.1	1.43	13.6	60	1010	19.2	23.1	0	0
6022	13/05/2021 17:24	1.39	1000	6.45	-0.03	-0.03	0.02	0	19.87	0	4.85	0.16	0.08	1.44	11.2	78	1011	25.6	30.7	0	0
6022	13/05/2021 18:42	0.9	1001.68	6.4	-0.03	-0.03	0.02	0	19.85	0	4.69	0.08	0.07	1.43	9.6	83	1011	23.5	28.2	0	0
6022	13/05/2021 19:59	0.05	1001.2	6.29	-0.03	-0.03	0.03	0	19.86	0	4.7	0.32	0.1	1.46	8.4	88	1011	21.4	25.6	0	0
6022	13/05/2021 21:18	2.12	1001.2	6.27	-0.03	-0.03	0.03	0	19.75	0	4.67	0.24	0.05	1.49	7.4	91	1012	10.7	12.8	0	0
6022	13/05/2021 22:36	1.15	1000.48	6.25	-0.03	-0.03	0.03	0	19.58	0	4.77	0.08	0.1	1.5	7.1	93	1012	10.7	12.8	0	0
6022	13/05/2021 23:53	0.9	1001.92	6.24	-0.03	-0.03	0.07	0	19.5	0	5.27	0.28	0.12	1.44	6.5	95	1012	12.8	15.4	0.3	0.3
6022	14/05/2021 01:11	-0.56	1002.16	6.23	-0.04	-0.03	0.05	0	19.48	0	5.38	0.15	0.12	1.48	6.5	93	1012	10.7	12.8	0.3	0.3
6022	14/05/2021 02:29	-0.07	1000.96	6.22	-0.03	-0.03	0.06	0	19.49	0	5.36	0.12	0.08	1.49	5.8	95	1011	6.4	7.7	0	0
6022	14/05/2021 03:47	2.49	1002.4	6.21	-0.03	-0.03	0.05	0	19.5	0	5.37	0.08	0.12	1.48	5.9	95	1011	4.3	5.1	0	0
6022	14/05/2021 05:05	2	1003.36	6.2	-0.03	-0.03	0.06	0	19.49	0	5.36	0	0.13	1.5	6.2	93	1011	4.3	5.1	0	0
6022	14/05/2021 06:23	2.49	1001.44	6.19	-0.03	-0.03	0.06	0	19.49	0	5.42	0	0.12	1.5	6.1	93	1011	6.4	7.7	0.3	0.3
6022	14/05/2021 07:40	-1.54	1003.36	6.18	-0.04	-0.03	0.07	0	19.52	0	5.5	0	0.12	1.51	6	93	1011	8.5	10.2	0.3	0.3
6022	14/05/2021 08:58	1.51	1004.8	6.2	-0.04	-0.03	0.05	0	19.55	0.12	5.4	0	0.11	1.51	6.1	91	1011	4.3	5.1	0	0
6022	14/05/2021 10:16	1.51	1004.32	6.36	-0.03	-0.03	0.06	0	19.65	0	5.84	0	0.1	1.51	7.8	82	1011	4.3	5.1	0.3	0.3
6022	14/05/2021 11:34	0.78	1004.32	6.4	-0.03	-0.03	0.03	0	19.81	0	5.6	0	0.07	1.52	7.5	84	1011	4.3	5.1	0.3	0.3
6022	14/05/2021 12:51	0.9	1004.56	6.44	-0.03	-0.03	0.02	0	19.94	0.25	5.22	0	0.08	1.49	8.4	74	1010	6.4	7.7	0	0
6022	14/05/2021 14:09	-0.8	1003.36	6.45	-0.03	-0.03	0.01	0	20.01	0.37	5.04	0	0.07	1.51	9.9	70	1010	8.5	10.2	0	0
6022	14/05/2021 15:27	-1.17	1004.8	6.37	-0.03	-0.03	0.03	0	20.1	0.12	4.66	0	0.08	1.49	10.2	67	1009	10.7	12.8	0	0
6022	14/05/2021 16:44	2.24	1006	6.35	-0.03	-0.03	0.03	0	20.12	0.86	4.68	0	0.03	1.5	10.2	67	1009	10.7	12.8	0	0
6022	14/05/2021 18:02	0.05	1004.32	6.3	-0.03	-0.03	0.02	0	20.07	0.86	4.56	0	0.07	1.53	10.2	67	1008	12.8	15.4	0	0
6022	14/05/2021 19:20	-1.78	1003.36	6.28	-0.03	-0.03	0.01	0	19.98	0.86	4.74	0	0.1	1.52	9.7	71	1008	10.7	12.8	0	0
6022	14/05/2021 20:38	0.54	1003.36	6.27	-0.03	-0.03	0.02	0	19.88	0.86	4.8	0.08	0.08	1.52	8.9	72	1007	12.8	15.4	0	0
6022	14/05/2021 21:56	3.1	1002.4	6.25	-0.03	-0.03	0.04	0	19.82	1.1	5.01	0	0.1	1.55	8.2	75	1007	8.5	10.2	0	0
6022	14/05/2021 23:14	1.51	1001.68	6.24	-0.03	-0.03	0.05	0	19.75	1.47	5.12	0	0.15	1.53	7.4	80	1007	10.7	12.8	0	0
6022	15/05/2021 00:32	1.88	1002.16	6.22	-0.03	-0.03	0.06	0	19.7	1.47	5.16	0	0.08	1.53	7.2	85	1006	10.7	12.8	0	0
6022	15/05/2021 01:50	-1.17	1000.96	6.21	-0.04	-0.03	0.06	0	19.62	1.72	5.3	0	0.13	1.52	6.6	88	1006	6.4	7.7	0	0
6022	15/05/2021 03:08	-2.02	1001.2	6.19	-0.03	-0.03	0.06	0	19.57	1.72	5.42	0	0.08	1.51	6.8	89	1004	6.4	7.7	0	0
6022	15/05/2021 04:26	-0.2	998.31	6.18	-0.03	-0.03	0.04	0	19.56	1.72	5.39	0	0.13	1.54	6.5	91	1004	6.4	7.7	0	0
6022	15/05/2021 05:43	-0.56	997.59	6.17	-0.03	-0.03	0.06	0.01	19.55	1.72	5.45	0	0.1	1.51	6.5	93	1003	4.3	5.1	0	0
6022	15/05/2021 07:01	1.51	997.83	6.18	-0.04	-0.03	0.06	0	19.56	1.72	5.56	0	0.1	1.58	6.8	94	1002	6.4	7.7	0	0
6022	15/05/2021 08:19	-0.07	995.67	6.21	-0.03	-0.03	0.07	0	19.61	1.72	5.51	0	0.12	1.56	7.6	90	1002	6.4	7.7	0	0
6022	15/05/2021 09:37	0.29	995.19	6.42	-0.03	-0.03	0.06	0	19.62	1.72	5.57	0	0.13	1.53	8.4	85	1002	8.5	10.2	0	0
6022	15/05/2021 10:55	0.78	994.23	6.42	-0.03	-0.03	0.04	0	19.72	1.72	5.64	0	0.13	1.54	9.2	82	1001	10.7	12.8	0	0
6022	15/05/2021 12:12	1.39	993.99	6.5	-0.03	-0.03	0.05	0	19.78	1.72	5.74	0	0.16	1.54	9.6	75	1001	14.9	17.9	0	0
6022	15/05/2021 13:30	0.29	993.03	6.38	-0.03	-0.03	0.02	0	19.9	1.72	5.42	0	0.11	1.52	10.8	68	1000	14.9	17.9	0	0
6022	15/05/2021 14:48	1.02	994.23	6.49	-0.03	-0.03	0.01	0	20.07	1.72	5.72	0	0.1	1.52	11	66	1000	14.9	17.9	0	0
6022	15/05/2021 16:05	-2.63	995.43	6.69	-0.03	-0.03	0.03	0	20.15	1.72	5.03	0	0.05	1.55	10.4	67	1000	12.8	15.4	0	0
6022	15/05/2021 17:24	-0.8	993.51	6.39	-0.03	-0.03	0.03	0	20.14	1.72	4.93	0	0.1	1.53	10.4	67	999	17.1	20.5	0	0
6022	15/05/2021 18																				

6022	20/05/2021 20:44	2.24	999.52	6.33	-0.03	-0.03	0.02	0	19.75	3.06	6.78	0	0.07	1.22	9.2	95	994	17.1	20.5	0	0
6022	20/05/2021 22:02	1.15	999.28	6.32	-0.03	-0.03	0.03	0	19.69	3.19	6.87	0	0.09	1.2	9.2	96	993	12.8	15.4	0.5	0.5
6022	20/05/2021 23:20	2.49	999.04	6.31	-0.03	-0.03	0.03	0	19.63	3.19	7.06	0	0.12	1.22	9	97	992	10.7	12.8	0.5	0.5
6022	21/05/2021 00:37	-0.2	998.07	6.3	-0.03	-0.03	0.05	0.01	19.59	3.19	6.91	0	0.07	1.28	8.8	97	990	14.9	17.9	0.5	0.5
6022	21/05/2021 01:55	0.54	997.11	6.28	-0.03	-0.03	0.06	0	19.51	3.19	7.14	0	0.13	1.24	8.8	93	990	21.4	29.9	1.2	1.2
6022	21/05/2021 03:13	3.22	996.63	6.26	-0.03	-0.03	0.05	0	19.48	2.82	7.23	0	0.13	1.23	8.8	98	988	8.5	10.2	0	0
6022	21/05/2021 04:31	1.76	994.47	6.24	-0.03	-0.03	0.04	0	19.5	2.94	7.35	0	0.08	1.24	8.8	97	987	8.5	10.2	0	0
6022	21/05/2021 05:49	3.1	995.19	6.24	-0.03	-0.03	0.06	0	19.5	3.19	7.26	0	0.13	1.22	8.8	97	987	8.5	10.2	0.3	0.3
6022	21/05/2021 07:07	1.02	993.75	6.25	-0.03	-0.03	0.06	0	19.48	3.06	7.33	0	0.1	1.2	8.9	97	986	8.5	10.2	3	3
6022	21/05/2021 08:24	0.54	993.99	6.28	-0.03	-0.03	0.06	0	19.5	2.7	7.46	0	0.12	1.21	9.7	92	986	8.5	10.2	0.3	0.3
6022	21/05/2021 09:42	2.85	994.47	6.35	-0.03	-0.03	0.04	0.01	19.56	2.7	7.55	0	0.1	1.23	9.7	97	986	10.7	12.8	0.5	0.5
6022	21/05/2021 11:00	2.73	994.71	6.56	-0.03	-0.02	0.04	0	19.67	2.57	7.86	0	0.04	1.2	10.3	96	986	10.7	12.8	3	3
6022	21/05/2021 12:17	2.12	991.83	6.52	-0.03	-0.01	0.01	0	19.78	2.57	7.53	0	0.08	1.2	11	90	986	12.8	15.4	3	3
6022	21/05/2021 13:36	0.41	993.51	6.55	-0.03	-0.02	0.02	0	19.79	2.57	7.36	0	0.08	1.22	11.2	92	987	19.2	23.1	0	0
6022	21/05/2021 14:54	1.02	993.03	6.43	-0.03	-0.03	0.02	0	19.76	2.57	7.06	0	0.05	1.22	11.4	87	987	21.4	25.6	3	3
6022	21/05/2021 16:11	1.15	992.55	6.43	-0.03	-0.02	0.04	0	19.68	2.57	7.32	0	0.06	1.2	9.5	95	988	21.4	25.6	0	0
6022	21/05/2021 17:29	2.12	993.75	6.41	-0.03	-0.02	0.04	0	19.65	2.57	7.49	0	0.07	1.23	9.9	95	989	12.8	15.4	0.5	0.5
6022	21/05/2021 18:47	-1.05	992.55	6.35	-0.03	-0.03	0.03	0.01	19.62	2.57	7.38	0	0.13	1.24	9.2	95	989	12.8	15.4	0.5	0.5
6022	21/05/2021 20:05	0.05	991.35	6.33	-0.03	-0.03	0.06	0	19.57	2.57	7.55	0	0.08	1.24	8.3	98	990	12.8	15.4	0.3	0.3
6022	21/05/2021 21:23	-1.05	990.87	6.31	-0.03	-0.03	0.05	0	19.54	2.57	7.54	0	0.13	1.23	7	100	991	12.8	15.4	0.5	0.5
6022	21/05/2021 22:41	3.58	992.31	6.3	-0.03	-0.03	0.06	0	19.49	2.57	7.59	0	0.13	1.22	6.4	95	993	17.1	20.5	0.5	0.5
6022	22/05/2021 01:17	3.22	993.75	6.27	-0.03	-0.03	0.06	0	19.42	2.57	7.73	0	0.08	1.22	6.1	91	995	17.1	20.5	0	0
6022	22/05/2021 02:35	-0.07	994.47	6.24	-0.03	-0.03	0.07	0	19.38	2.57	7.86	0	0.1	1.23	5.6	90	995	14.9	17.9	0	0
6022	22/05/2021 03:52	0.78	993.51	6.23	-0.03	-0.03	0.05	0	19.37	2.57	7.91	0	0.13	1.23	5.2	92	996	12.8	15.4	0	0
6022	22/05/2021 05:10	1.63	994.23	6.22	-0.03	-0.03	0.05	0	19.34	2.45	7.94	0	0.08	1.18	5.3	88	997	12.8	15.4	0	0
6022	22/05/2021 06:28	-0.68	995.91	6.22	-0.03	-0.03	0.04	0	19.33	2.57	8.01	0	0.08	1.18	5.2	86	998	12.8	15.4	0	0
6022	22/05/2021 07:46	1.51	997.35	6.26	-0.03	-0.03	0.04	0	19.36	2.45	8.26	0	0.11	1.15	4.9	86	999	17.1	20.5	1	1
6022	22/05/2021 09:04	0.9	995.91	6.47	-0.03	-0.03	0.05	0	19.45	2.21	9.02	0	0.13	1.17	5.5	88	999	14.9	17.9	0.5	0.5
6022	22/05/2021 10:21	3.83	999.76	6.43	-0.03	-0.03	0.03	0	19.57	2.08	8.27	0	0.11	1.16	7	82	1000	10.7	12.8	0.5	0.5
6022	22/05/2021 11:39	-0.07	999.52	6.49	-0.03	-0.03	0.03	0	19.59	1.96	8.02	0	0.13	1.16	7.7	71	1001	17.1	20.5	0	0
6022	22/05/2021 12:57	3.22	998.55	6.47	-0.03	-0.03	0.02	0	19.72	1.84	8.66	0	0.1	1.1	10.1	64	1002	10.7	12.8	0	0
6022	22/05/2021 14:14	-1.41	999.28	6.47	-0.03	-0.03	0.02	0	19.81	1.72	8.07	0	0.08	1.15	9.6	63	1003	12.8	15.4	0.5	0.5
6022	22/05/2021 15:32	1.02	1000.96	6.49	-0.03	-0.03	0.03	0	19.97	1.72	8.34	0	0.08	1.17	9	68	1003	10.7	12.8	3	3
6022	22/05/2021 16:50	-0.2	1000.96	6.48	-0.03	-0.03	0.03	0	19.98	1.72	7.73	0	0.1	1.12	8.3	71	1003	12.8	15.4	0	0
6022	22/05/2021 18:08	1.15	1001.92	6.37	-0.03	-0.03	0.02	0	19.92	1.72	7.5	0	0.06	1.1	10.1	64	1003.7	14.9	17.9	3	3
6022	22/05/2021 19:25	-0.68	1002.88	6.35	-0.03	-0.03	0.03	0.01	19.82	1.84	7.73	0	0.08	1.13	10.3	62	1004	10.7	12.8	1	1
6022	22/05/2021 20:43	0.17	1002.64	6.33	-0.03	-0.03	0.02	0	19.71	1.96	7.81	0	0.1	1.11	8.9	68	1004	6.4	7.7	0	0
6022	22/05/2021 22:01	2.24	1004.08	6.32	-0.03	-0.03	0.03	0	19.57	2.21	7.83	0	0.13	1.12	7.7	75	1004	4.3	5.1	0	0
6022	22/05/2021 23:19	0.66	1005.52	6.3	-0.03	-0.03	0.06	0	19.44	1.84	8.23	0	0.12	1.11	5.3	83	1005	4.3	5.1	0	0
6022	23/05/2021 00:37	-1.54	1006.24	6.29	-0.03	-0.03	0.06	0	19.29	2.21	8.14	0	0.13	1.11	4.6	86	1005	6.4	7.7	0	0
6022	23/05/2021 01:55	-0.07	1005.52	6.27	-0.03	-0.03	0.05	0	19.14	2.21	8.45	0	0.15	1.08	4.5	86	1005	8.5	10.2	0	0
6022	23/05/2021 03:13	-0.32	1007.2	6.24	-0.04	-0.03	0.06	0	19.04	2.57	8.71	0	0.16	1.11	3.9	91	1005	8.5	10.2	0	0
6022	23/05/2021 04:31	-0.44	1005.76	6.23	-0.04	-0.03	0.07	0	18.92	2.21	8.76	0	0.1	1.08	3.5	89	1004	4.3	5.1	0	0
6022	23/05/2021 05:49	3.46	1006	6.21	-0.04	-0.03	0.04	0	18.86	2.21	9.07	0	0.13	1.08	3.5	90	1004	4.3	5.1	0	0
6022	23/05/2021 07:07	3.22	1006.48	6.22	-0.04	-0.03	0.05	0	18.88	2.45	9.49	0	0.13	1.1	6.7	74	1004	4.3	5.1	0	0
6022	23/05/2021 08:24	1.51	1007.44	6.42	-0.04	-0.03	0.04	0	19.11	1.84	10.99	0	0.16	1.06	7	81	1003	6.4	7.7	0.5	0.5
6022	23/05/2021 09:42	2	1006.48	6.47	-0.03	-0.03	0.06	0	19.38	1.72	9.56	0	0.12	1.07	8.1	78	1003	6.4	7.7	0	0
6022	23/05/2021 10:59	1.63	1004.8	6.5	-0.03	-0.03	0.03	0	19.56	1.72	9.32	0	0.1	1.09	9	78	1004	6.4	7.7	3	3
6022	23/05/2021 12:17	1.51	1005.76	6.51	-0.03	-0.03	0.02	0	19.68	1.72	9.04	0	0.1	1.09	12.2	60	1003	8.5	10.2	3	3
6022	23/05/2021 13:35	1.76	1004.56	6.65	-0.03	-0.02	0.01	0	19.75	1.72	8.84	0	0.08	1.05	10.9	64	1002	12.8	15.4	3	3
6022	23/05/2021 14:53	3.22	1003.6	6.57	-0.03	-0.03	0.03	0	19.89	1.72	8.71	0	0.08	1.07	11.5	60	1001	19.2	23.1	3	3
6022	23/05/2021 16:11	1.39	1002.4	6.52	-0.03	-0.03	0.02	0	19.89	1.72	8.37	0	0.08	1.07	11	69	1001	14.9	17.9	3	3
6022	23/05/2021 17:29	0.17	1001.2	6.41	-0.03	-0.03	0.04	0	19.86	1.72	8.43	0	0.08	1.05	10.7	68	999	17.1	20.5	0	0
6022	23/05/2021 18:47	1.15	1000.72	6.37	-0.03	-0.03	0.01	0.01	19.72	1.72	8.35	0	0.08	1.08	11	66	998	21.4	25.6	1.2	1.2
6022	23/05/2021 20:05	1.15	999.04	6.33	-0.03	-0.03	0.03	0	19.58	1.96	8.44	0	0.08	1.06	9.8	78	998	14.9	17.9	0.5	0.5
6022	23/05/2021 21:23	-2.75	998.55	6.32	-0.03	-0.03	0.04	0	19.43	1.84	8.79	0	0.12	1.03	8.5	91	997	10.7	12.8	0.5	0.5
6022	23/05/2021 22:41	2.61	998.07	6.31	-0.03	-0.03	0.05	0	19.37	2.21	9.01	0	0.1	1.05	8.3	94	996	14.9	17.9	0.5	0.5
6022	23/05/2021 23:58	4.07	998.8	6.3	-0.03	-0.03	0.06	0	19.34	2.33	9.05	0	0.15	1.04	6.9	92	995	6.4	7.7	3	3
6022	24/05/2021 01:16	-0.2	998.55	6.29	-0.03	-0.03	0.07	0	19.27	2.21	9.12	0	0.12	0.98	6.7	91	995	8.5	10.2	3	3
6022	24/05/2021 02:34	-1.05	998.31	6.28	-0.03	-0.03	0.05	0	19.23	1.84	9.21	0	0.12	0.99	5.5	97	995	8.5	10.2	0	0
6022	24/05/2021 03:52	-1.78	998.8	6.26	-0.03	-0.03	0.06	0	19.16	2.21	9.22	0	0.15	1.03	4.9	97					

6022	29/05/2021 04:38	-2.02	1018	6.31	-0.04	-0.03	0.04	0.01	20.02	1.72	14.12	0	0.16	0.83	8.5	96	1025	4.3	5.1	0	0
6022	29/05/2021 05:56	1.39	1020.4	6.3	-0.04	-0.03	0.05	0	19.98	1.72	14.28	0	0.15	0.81	7.4	97	1026	4.3	5.1	0	0
6022	29/05/2021 07:13	3.95	1021.6	6.32	-0.04	-0.03	0.04	0	19.99	1.72	14.87	0	0.13	0.85	9.6	83	1026	4.3	5.1	0	0
6022	29/05/2021 08:31	-0.32	1021.12	6.48	-0.04	-0.03	0.01	0.01	20.06	1.72	15.36	0	0.15	0.83	11.3	94	1027	2.1	2.6	0	0
6022	29/05/2021 09:48	-0.93	1022.32	6.69	-0.03	-0.03	0.05	0	20.3	1.72	17.71	0	0.16	0.82	10.6	96	1028	6.4	7.7	0	0
6022	29/05/2021 11:06	1.51	1021.6	6.72	-0.03	-0.03	0.05	0	20.74	1.59	17.16	0	0.18	0.85	12.6	88	1028	8.5	10.2	0.3	0.3
6022	29/05/2021 12:24	-21.28	1021.6	6.73	-0.03	-0.02	0.06	0	20.91	1.23	13.87	0	0.12	0.83	17.2	69	1028	10.7	12.8	0	0
6022	29/05/2021 13:42	-37.98	1022.08	6.72	-0.03	-0.02	0.06	0	20.96	1.35	13.94	0	0.09	0.85	18.6	52	1028	10.7	12.8	0	0
6022	29/05/2021 15:01	-31.03	1021.6	6.6	-0.03	-0.02	0.06	0	21.01	1.72	13.92	0	0.05	0.85	19.4	60	1028	14.9	17.9	0	0
6022	29/05/2021 16:19	-28.96	1023.04	6.73	-0.03	-0.03	0.06	0	21.06	1.72	13.68	0	0.06	0.82	19.2	60	1029	17.1	20.5	0	0
6022	29/05/2021 17:37	-33.47	1021.12	6.73	-0.03	-0.03	0.06	0	21.01	1.72	13.35	0	0.07	0.84	18.6	56	1029	14.9	17.9	0	0
6022	29/05/2021 18:55	-26.65	1023.52	6.61	-0.03	-0.03	0.07	0	21.06	1.72	14.06	0	0.07	0.85	17.8	60	1029	14.9	17.9	0	0
6022	29/05/2021 20:13	-29.45	1021.84	6.42	-0.03	-0.03	0.05	0	21.05	1.72	12.81	0	0.04	0.89	16.5	63	1029	12.8	15.4	0	0
6022	29/05/2021 21:32	-54.19	1023.28	6.39	-0.03	-0.03	0.03	0	20.73	1.72	11.98	0	0.08	0.88	13	83	1030	12.8	15.4	0	0
6022	29/05/2021 22:50	-70.89	1023.04	6.37	-0.03	-0.03	0.03	0	20.38	1.72	13.06	0	0.08	0.94	10.4	92	1031	12.8	15.4	0	0
6022	30/05/2021 00:08	-78.69	1023.76	6.35	-0.03	-0.03	0.02	0	20.15	1.72	14.21	0	0.16	0.9	8.5	97	1031	10.7	12.8	0	0
6022	30/05/2021 01:26	-82.72	1023.76	6.33	-0.04	-0.03	0.06	0	19.99	1.72	14.89	0	0.15	0.93	8.3	94	1031	8.5	10.2	0	0
6022	30/05/2021 02:44	-90.15	1021.84	6.32	-0.04	-0.03	0.08	0	19.89	1.72	15.27	0	0.16	0.93	7.9	100	1030	3.6	3.8	0	0
6022	30/05/2021 04:02	-89.66	1022.8	6.31	-0.04	-0.03	0.07	0	19.81	1.72	15.7	0	0.16	0.97	7.5	100	1030	3.4	6.8	0	0
6022	30/05/2021 05:20	-89.18	1023.28	6.29	-0.04	-0.03	0.05	0	19.79	1.72	16.31	0	0.16	0.96	8.1	93	1030	3.4	4.9	0	0
6022	30/05/2021 06:38	-86.01	1024.24	6.3	-0.04	-0.03	0.07	0	19.83	1.72	16.4	0	0.16	0.97	9.1	100	1030	4.9	6.2	0	0
6022	30/05/2021 07:55	-81.37	1022.8	6.42	-0.04	-0.03	0.06	0	19.88	1.72	16.8	0	0.16	0.95	6.9	100	1030	3.4	5.1	0	0
6022	30/05/2021 09:13	-70.04	1024.48	6.55	-0.04	-0.03	0.03	0	20.04	1.72	18.33	0	0.14	0.94	14.9	76	1030	9.6	13.9	0	0
6022	30/05/2021 10:30	-61.02	1022.32	6.72	-0.03	-0.03	0.03	0	20.22	1.72	18.11	0	0.18	0.95	12.5	86	1030	7.3	11.3	0	0
6022	30/05/2021 11:48	-43.71	1023.28	6.73	-0.03	-0.03	0.02	0	20.48	1.72	17.64	0	0.13	1	14	87	1029	9.8	15.8	0	0
6022	30/05/2021 13:06	-27.01	1023.04	6.72	-0.03	-0.02	0.05	0	20.74	1.72	16.78	0	0.15	0.97	18.9	58	1029	11.1	18.4	0	0
6022	30/05/2021 14:24	-16.41	1022.32	6.73	-0.03	-0.03	0.07	0	20.96	1.72	16.19	0	0.13	0.96	18.7	53	1029	13	23.5	0	0
6022	30/05/2021 15:43	-4.1	1021.36	6.72	-0.03	-0.03	0.06	0	21.07	1.72	15.35	0	0.06	0.99	19.8	55	1028	17.5	20.9	0	0
6022	30/05/2021 17:01	-7.39	1019.68	6.49	-0.03	-0.02	0.06	0	21.11	1.72	13.53	0	0	0.98	19.3	50	1028	17.1	20.5	0	0
6022	30/05/2021 18:19	-11.17	1020.88	6.73	-0.03	-0.03	0.07	0	20.99	1.72	14.61	0	0.08	0.99	18.1	52	1027	14.9	17.9	0	0
6022	30/05/2021 19:37	-10.8	1020.4	6.52	-0.03	-0.03	0.08	0	21.01	1.72	14.66	0	0.08	0.97	16.7	50	1027	14.9	17.9	0	0
6022	30/05/2021 20:55	-34.69	1019.68	6.41	-0.03	-0.03	0.04	0	20.79	1.72	12.63	0	0.06	1	15.2	58	1026	12.8	15.4	0	0
6022	30/05/2021 22:14	-55.29	1021.12	6.38	-0.03	-0.03	0.03	0	20.36	1.72	13.72	0	0.12	1.01	10.9	74	1026	10.7	12.8	0	0
6022	30/05/2021 23:32	-65.65	1017.28	6.36	-0.04	-0.03	0.03	0	20.09	1.72	15.13	0	0.13	1.01	9.4	80	1026	6.4	7.7	0	0
6022	31/05/2021 02:08	-72.96	1018.72	6.33	-0.04	-0.03	0.08	0	19.79	1.72	16.7	0	0.16	1.05	6.5	100	1026	3.8	5.8	0	0
6022	31/05/2021 03:26	-76.62	1017.04	6.31	-0.04	-0.03	0.07	0	19.72	1.72	17.08	0	0.21	1.05	6.1	99	1025	6.4	7.7	0	0
6022	31/05/2021 04:44	-75.77	1018.72	6.3	-0.04	-0.03	0.07	0	19.68	1.72	17.45	0	0.13	1.09	5	98	1025	6.4	7.7	0	0
6022	31/05/2021 06:02	-73.33	1016.56	6.29	-0.04	-0.03	0.06	0	19.69	1.72	17.83	0	0.18	1.05	4.3	99	1024	4.3	5.1	0	0
6022	31/05/2021 07:19	-68.21	1016.32	6.37	-0.04	-0.03	0.06	0.02	19.75	1.72	18.46	0	0.19	1.03	5.9	91	1024	6.4	7.7	0	0
6022	31/05/2021 08:37	-53.95	1018.24	6.46	-0.03	-0.03	0.06	0.01	19.95	1.72	21.5	0	0.19	1.04	7.7	100	1024	6.4	7.7	0	0
6022	31/05/2021 09:54	-30.3	1017.28	6.72	-0.03	-0.03	0.04	0	20.38	1.72	22.12	0	0.21	1.03	10.9	92	1024	8.5	10.2	0	0
6022	31/05/2021 11:11	-8.36	1016.8	6.72	-0.03	-0.03	0.05	0	20.76	1.72	19.73	0	0.15	1.06	16.2	58	1023	12.8	15.4	0	0
6022	31/05/2021 12:29	8.22	1014.88	6.72	-0.03	-0.02	0.05	0	21.05	2.57	17.27	0	0.1	1.09	17.4	57	1022	14.9	17.9	0	0
6022	31/05/2021 13:48	10.41	1015.36	6.72	-0.03	-0.02	0.06	0	21.09	2.57	15.75	0	0.02	1.05	17.9	55	1022	17.1	20.5	0	0
6022	31/05/2021 15:06	13.82	1014.88	6.72	-0.03	-0.02	0.05	0	21.16	2.7	16	0	0.06	1.06	18.2	56	1022	17.1	20.5	0	0
6022	31/05/2021 16:24	17.48	1014.64	6.72	-0.03	-0.02	0.05	0	21.2	3.06	15.87	0	0.08	1.05	18.7	57	1021	14.9	17.9	0	0
6022	31/05/2021 17:43	7.85	1012.48	6.72	-0.03	-0.02	0.04	0	21.08	2.94	15.28	0	0.07	1.08	18.7	61	1020	17.1	20.5	0	0
6022	31/05/2021 19:01	8.7	1013.2	6.61	-0.03	-0.03	0.05	0	21.08	2.94	15.98	0	0.11	1.04	19.3	62	1020	17.1	20.5	0	0
6022	31/05/2021 20:19	1.88	1012	6.42	-0.03	-0.03	0.08	0	21.03	2.7	15.03	0	0.05	1.06	16.7	69	1019	12.8	15.4	0	0
6022	31/05/2021 21:38	-18.36	1011.04	6.4	-0.03	-0.03	0.06	0	20.74	2.57	14.54	0	0.12	1.06	15.2	70	1019	8.5	10.2	0	0
6022	31/05/2021 22:56	-34.2	1013.2	6.38	-0.03	-0.03	0.03	0	20.47	2.33	15.4	0	0.12	1.07	13.6	76	1019	8.5	10.2	0	0
6022	01/06/2021 00:14	-41.64	1012.96	6.37	-0.03	-0.03	0.03	0	20.26	2.57	16.46	0	0.15	1.09	12.6	79	1019	6.4	7.7	0	0
6022	01/06/2021 01:32	-46.64	1011.28	6.35	-0.03	-0.03	0.01	0.01	20.11	2.57	17.16	0	0.15	1.06	11.1	83	1019	5.8	10.5	0	0
6022	01/06/2021 02:50	-51.15	1012	6.34	-0.03	-0.03	0.04	0	20	2.57	17.71	0	0.16	1.11	12.2	71	1019	10.7	12.8	0	0
6022	01/06/2021 04:08	-52.12	1010.08	6.32	-0.03	-0.03	0.05	0	19.92	2.45	18.01	0	0.13	1.12	12.5	69	1019	12.8	15.4	0	0
6022	01/06/2021 05:26	-52	1008.4	6.31	-0.03	-0.03	0.07	0	19.84	2.45	18.26	0	0.16	1.11	8.8	87	1018	10.7	12.8	0	0
6022	01/06/2021 06:44	-52.97	1010.32	6.31	-0.04	-0.03	0.07	0	19.84	2.57	18.97	0	0.15	1.1	9.9	79	1018	8.5	10.2	0	0
6022	01/06/2021 08:01	-48.59	1010.32	6.33	-0.04	-0.03	0.04	0.01	19.92	2.57	20.7	0	0.13	1.09	11.5	76	1018	6.4	7.7	0	0
6022	01/06/2021 09:18	-19.09	1008.88	6.63	-0.03	-0.03	0.04	0	20.38	2.57	25.02	0	0.21	1.14	15.5	63	1018	8.5	10.2	0	0
6022	01/06/2021 10:36	0.66	1008.64	6.72	-0.03	-0.02	0.05	0	20.75	2.7	21.48	0	0.16	1.12	17.3	60	1018	10.7	12.8	0	0
6022	01/06/2021 11:54	15.29	1010																		

6022	06/06/2021 14:00	15.41	1019.2	6.71	-0.03	-0.03	0.06	0	20.88	2.57	21.18	0	0.13	1.31	17.6	61	1025	9	17.1	0	0	0
6022	06/06/2021 15:18	14.68	1021.12	6.73	-0.03	-0.03	0.06	0	20.89	3.19	21.48	0	0.08	1.29	17.2	61	1025	14.5	22.2	0	0	0
6022	06/06/2021 16:36	20.89	1017.76	6.56	-0.03	-0.03	0.07	0	20.95	3.43	21.57	0	0.15	1.3	16.3	63	1025	17.5	31.6	0	0	0
6022	06/06/2021 17:55	17.84	1018.48	6.63	-0.03	-0.03	0.06	0	20.96	3.43	20.91	0	0.1	1.3	16.4	69	1024	14.7	26	0	0	0
6022	06/06/2021 19:12	25.77	1019.68	6.6	-0.03	-0.03	0.05	0	21.04	3.43	21.03	0	0.1	1.28	15.6	70	1024	13	15.8	0	0	0
6022	06/06/2021 19:12	25.77	1019.68	6.6	-0.03	-0.03	0.05	0	21.04	3.43	21.03	0	0.1	1.28	15.6	70	1024	13	15.8	0	0	0
6022	06/06/2021 20:31	17.48	1018.72	6.44	-0.03	-0.03	0.07	0	21.04	3.31	18.81	0	0.07	1.3	14.4	73	1024	12.8	21.4	0	0	0
6022	06/06/2021 21:49	-6.17	1020.16	6.42	-0.03	-0.03	0.05	0	20.69	1.72	18.45	0	0.13	1.29	14.1	74	1025	9.4	15.6	0	0	0
6022	06/06/2021 23:07	-24.7	1018.24	6.4	-0.03	-0.03	0.03	0	20.37	1.72	20.03	0	0.19	1.3	13.2	76	1025	7.5	13.7	0	0	0
6022	07/06/2021 01:43	-29.33	1017.28	6.37	-0.04	-0.03	0.03	0	20.16	1.72	22.16	0	0.16	1.3	11	85	1024	2.8	4.5	0.3	0.3	0
6022	07/06/2021 03:01	-33.11	1019.68	6.35	-0.04	-0.03	0.04	0	20.1	1.72	22.58	0	0.16	1.31	10.2	88	1024	4.5	5.8	0	0	0
6022	07/06/2021 04:19	-33.23	1017.28	6.34	-0.04	-0.03	0.02	0	20.06	1.72	22.8	0	0.19	1.33	10.8	90	1024	6.6	10.2	0	0	0
6022	07/06/2021 05:37	-36.27	1018.96	6.33	-0.04	-0.03	0.03	0	20.05	1.72	22.95	0	0.18	1.36	10.8	93	1023	4.3	7.9	0	0	0
6022	07/06/2021 06:55	-34.2	1018	6.34	-0.04	-0.03	0.03	0.01	20.01	1.72	23.23	0	0.19	1.32	11.3	93	1023	3.2	7	0	0	0
6022	07/06/2021 08:12	-34.81	1018.96	6.42	-0.04	-0.03	0.03	0.02	20.06	1.72	23.43	0	0.15	1.28	14.9	79	1023	4.9	7.7	0	0	0
6022	07/06/2021 09:30	-26.65	1019.44	6.56	-0.04	-0.03	0.03	0	20.12	1.72	24.07	0	0.18	1.31	16.4	71	1023	8.5	11.7	0	0	0
6022	07/06/2021 10:48	-25.3	1018.96	6.61	-0.04	-0.03	0.03	0.02	20.25	1.72	23.76	0	0.15	1.34	17.2	71	1022	9.6	14.5	0.2	0.2	0
6022	07/06/2021 12:05	-12.75	1019.2	6.73	-0.04	-0.03	0.04	0	20.35	1.72	24.54	0	0.19	1.35	17.8	68	1022	9	13.9	0	0	0
6022	07/06/2021 13:23	4.56	1020.64	6.73	-0.03	-0.03	0.02	0	20.62	2.57	26.36	0	0.18	1.32	18.6	65	1022	12.6	21.6	0	0	0
6022	07/06/2021 14:41	20.53	1018.96	6.71	-0.03	-0.03	0.05	0	20.9	3.43	23.55	0	0.18	1.34	19.1	67	1021	11.7	20.3	0	0	0
6022	07/06/2021 15:59	27.35	1019.68	6.72	-0.03	-0.03	0.06	0	21.07	3.43	22.37	0	0.13	1.34	19	62	1021	9	18.4	0	0	0
6022	07/06/2021 17:18	25.4	1018.96	6.73	-0.03	-0.03	0.05	0	21.09	3.43	19.82	0	0.08	1.36	19.4	70	1020	12.8	17.5	0.4	0.4	0
6022	07/06/2021 18:36	15.77	1018.72	6.54	-0.03	-0.03	0.07	0	21	3.31	19.96	0	0.1	1.34	17.9	68	1020	13.7	21.8	0.4	0.4	0
6022	07/06/2021 18:36	15.77	1018.72	6.54	-0.03	-0.03	0.07	0	21	3.31	19.96	0	0.1	1.34	17.9	68	1020	13.7	21.8	0.4	0.4	0
6022	07/06/2021 19:54	3.95	1018	6.45	-0.03	-0.03	0.05	0	20.82	2.57	19.89	0	0.08	1.33	17.8	66	1020	9.4	14.3	0	0	0
6022	07/06/2021 21:12	-4.71	1017.52	6.42	-0.03	-0.03	0.04	0	20.61	1.96	20.42	0	0.1	1.33	16.7	79	1021	11.5	22.2	0	0	0
6022	07/06/2021 22:31	-21.89	1019.2	6.4	-0.03	-0.03	0.03	0	20.42	1.72	21	0	0.15	1.29	15.5	74	1021	10.9	15.8	0	0	0
6022	07/06/2021 23:49	-26.4	1018.48	6.39	-0.04	-0.03	0.03	0.02	20.25	1.72	21.89	0	0.12	1.33	12.4	89	1021	10.7	17.1	0	0	0
6022	08/06/2021 01:07	-31.52	1019.92	6.38	-0.04	-0.03	0.03	0	20.14	1.72	22.58	0	0.13	1.38	11.4	93	1021.3	10.7	13.5	0	0	0
6022	08/06/2021 02:25	-35.79	1019.68	6.36	-0.04	-0.03	0.02	0.01	20.04	1.72	22.99	0	0.13	1.37	9.8	99	1021.3	9.4	12.4	0	0	0
6022	08/06/2021 03:43	-36.03	1017.52	6.34	-0.04	-0.03	0.04	0	19.96	1.72	23.27	0	0.13	1.34	9.1	92	1021.2	8.1	11.1	0	0	0
6022	08/06/2021 05:00	-38.47	1017.52	6.32	-0.04	-0.03	0.06	0.01	19.89	1.72	23.47	0	0.16	1.32	8.4	87	1021.3	9.8	13	0	0	0
6022	08/06/2021 06:18	-41.88	1019.2	6.31	-0.04	-0.03	0.08	0	19.84	1.72	24.4	0	0.16	1.34	10.9	80	1021	9.4	12.6	0	0	0
6022	08/06/2021 07:36	-39.2	1020.4	6.33	-0.04	-0.03	0.06	0	19.86	1.72	24.36	0	0.18	1.37	12.3	82	1021	10.7	16.4	0	0	0
6022	08/06/2021 08:54	-21.89	1018.48	6.49	-0.04	-0.03	0.02	0	20.12	1.96	30.74	0	0.22	1.35	14.2	74	1022	8.1	12	0	0	0
6022	08/06/2021 10:11	-0.07	1018.48	6.72	-0.03	-0.03	0.03	0	20.56	2.57	28.89	0	0.21	1.36	16.5	62	1021	9.2	11.5	0	0	0
6022	08/06/2021 11:28	20.28	1017.52	6.72	-0.03	-0.03	0.06	0	20.87	3.43	25.59	0	0.12	1.29	17.7	57	1021	13.5	22.6	0	0	0
6022	08/06/2021 12:46	29.91	1017.28	6.62	-0.03	-0.03	0.05	0	21.09	3.8	23.3	0	0.08	1.35	18.8	57	1021	15.4	24.1	0	0	0
6022	08/06/2021 14:04	37.23	1018.48	6.72	-0.03	-0.03	0.07	0	21.2	4.29	22.51	0	0.1	1.35	19.8	57	1021	16	25.2	0	0	0
6022	08/06/2021 15:23	42.59	1018	6.72	-0.03	-0.03	0.04	0	21.27	4.29	21.83	0	0.12	1.32	19.2	59	1021	16	19	0	0	0
6022	08/06/2021 16:41	41	1017.04	6.58	-0.03	-0.02	0.04	0	21.3	4.29	20.53	0	0.13	1.33	19.3	48	1021	14.7	25.4	0	0	0
6022	08/06/2021 17:59	29.42	1017.76	6.71	-0.03	-0.03	0.06	0	21.2	4.04	20.22	0	0.13	1.35	19.4	46	1020	15.6	28	0	0	0
6022	08/06/2021 19:17	28.57	1018.24	6.56	-0.03	-0.03	0.05	0	21.16	3.8	20.76	0	0.16	1.34	19	47	1020	13	22	0	0	0
6022	08/06/2021 20:35	13.33	1016.32	6.43	-0.03	-0.03	0.07	0	21.02	3.43	19.43	0	0.14	1.33	18.1	55	1020	7.9	14.9	0	0	0
6022	08/06/2021 21:54	-8.12	1017.28	6.41	-0.03	-0.03	0.03	0	20.68	2.57	19.83	0	0.16	1.38	17.6	60	1020	7.5	11.5	0	0	0
6022	08/06/2021 23:12	-21.65	1018.48	6.4	-0.03	-0.03	0.04	0	20.42	2.08	21.39	0	0.13	1.36	16.6	67	1021	7.7	13.2	0	0	0
6022	09/06/2021 00:30	-30.55	1018.72	6.38	-0.04	-0.03	0.03	0	20.24	1.72	22.53	0	0.15	1.36	13.3	86	1020	6	9.4	0	0	0
6022	09/06/2021 01:48	-36.4	1017.76	6.36	-0.04	-0.03	0.03	0.01	20.12	1.72	23.3	0	0.13	1.36	12.9	90	1020	6.8	11.1	0	0	0
6022	09/06/2021 01:48	-36.4	1017.76	6.36	-0.04	-0.03	0.03	0.01	20.12	1.72	23.3	0	0.13	1.36	12.9	90	1020	6.8	11.1	0	0	0
6022	09/06/2021 03:06	-36.27	1017.52	6.35	-0.04	-0.03	0.05	0	20.02	1.72	23.89	0	0.12	1.36	12.5	89	1020	8.3	14.9	0	0	0
6022	09/06/2021 04:24	-42.61	1017.04	6.34	-0.04	-0.03	0.05	0.01	19.95	1.72	24.11	0	0.15	1.34	11.8	90	1019	7.9	12	0	0	0
6022	09/06/2021 05:42	-43.59	1017.04	6.32	-0.04	-0.03	0.07	0	19.87	1.72	24.31	0	0.13	1.35	11.5	90	1019	9.2	16.9	0	0	0
6022	09/06/2021 07:00	-43.1	1016.32	6.32	-0.04	-0.03	0.06	0.01	19.88	1.72	25.21	0	0.12	1.36	12.8	85	1018	8.3	12.8	0	0	0
6022	09/06/2021 08:17	-35.54	1017.76	6.35	-0.04	-0.03	0.06	0	19.97	1.72	27.21	0	0.16	1.38	17.2	66	1018	8.5	12.8	0	0	0
6022	09/06/2021 09:34	-9.82	1017.76	6.68	-0.03	-0.03	0.04	0	20.41	2.94	31.85	0	0.19	1.36	18.6	58	1018	12.6	20.7	0	0	0
6022	09/06/2021 10:52	10.41	1017.76	6.72	-0.03	-0.03	0.04	0	20.75	3.43	28	0	0.21	1.39	19.6	56	1018	15.8	25.2	0	0	0
6022	09/06/2021 13:28	37.1	1017.04	6.72	-0.03	-0.03	0.06	0	21.19	4.29	23.18	0	0.13	1.36	22.2	50	1017	19.2	31	0	0	0
6022	09/06/2021 14:46	40.03	1015.36	6.72	-0.03	-0.03	0.06	0	21.26	4.29	22.06	0	0.12	1.37	22.3	51	1017	18.8	32	0	0	0
6022	09/06/2021 16:05	42.71	1015.6	6.72	-0.03	-0.03	0.03</															

6022	15/06/2021 03:19	-27.01	1015.12	6.36	-0.03	-0.03	0.03	0	20.46	3.43	26.39	0	0.19	1.49	9.7	81	1022	12.4	22	0	0
6022	15/06/2021 04:37	-33.84	1015.6	6.35	-0.03	-0.03	0.05	0	20.38	3.43	26.83	0	0.18	1.42	8.7	84	1022	8.5	14.3	0	0
6022	15/06/2021 05:55	-33.96	1016.32	6.33	-0.04	-0.03	0.03	0.01	20.32	3.43	27.12	0	0.13	1.44	9.4	86	1022	6.4	10.5	0	0
6022	15/06/2021 07:13	-33.47	1017.04	6.35	-0.04	-0.03	0.03	0	20.27	3.43	27.86	0	0.19	1.48	7.1	100	1022	8.3	12.2	0	0
6022	15/06/2021 08:30	-28.72	1018.24	6.51	-0.04	-0.03	0.06	0.01	20.36	3.43	29.67	0	0.19	1.47	12.1	68	1022	8.5	12.4	0	0
6022	15/06/2021 09:48	-9.82	1016.56	6.7	-0.03	-0.03	0.03	0	20.65	4.29	33.18	0	0.24	1.49	13.7	56	1022	8.5	14.7	0	0
6022	15/06/2021 11:05	10.29	1014.64	6.72	-0.03	-0.03	0.06	0	20.97	5.89	30.47	0	0.21	1.44	14.9	49	1021	9.6	10	0	0
6022	15/06/2021 12:23	24.55	1016.08	6.72	-0.03	-0.03	0.06	0	21.14	6.01	27.01	0	0.19	1.45	17.2	42	1021	11.1	17.9	0	0
6022	15/06/2021 13:41	22.35	1015.6	6.7	-0.03	-0.03	0.06	0	21.2	6.01	24.93	0	0.18	1.47	18.1	43	1020	11.1	17.9	0	0
6022	15/06/2021 15:00	18.58	1015.12	6.61	-0.03	-0.03	0.07	0	21.19	6.01	24.4	0	0.21	1.47	18.9	41	1019	11.5	19.6	0	0
6022	15/06/2021 16:17	16.75	1013.44	6.63	-0.03	-0.03	0.06	0	21.12	6.01	25.06	0	0.21	1.46	18.6	41	1017	15.6	19.4	0	0
6022	15/06/2021 17:36	11.87	1013.2	6.66	-0.03	-0.03	0.06	0	21.11	5.89	24.47	0	0.18	1.44	18.6	40	1016	19.6	34.2	0	0
6022	15/06/2021 18:53	17.48	1014.16	6.66	-0.03	-0.03	0.07	0	21.11	6.01	25.25	0	0.21	1.47	18.5	40	1015	17.7	31.2	0	0
6022	15/06/2021 20:11	17.84	1013.44	6.46	-0.03	-0.03	0.05	0	21.13	6.01	24.3	0	0.22	1.47	18.1	42	1015	17.5	29.5	0	0
6022	15/06/2021 21:30	-3.24	1012	6.43	-0.03	-0.03	0.05	0	20.92	4.41	22.85	0	0.21	1.47	17.4	47	1014	16.4	29.7	0	0
6022	15/06/2021 22:48	-18.97	1012.48	6.41	-0.03	-0.03	0.03	0	20.64	4.17	24.33	0	0.16	1.49	16.2	58	1014	8.5	10.9	0	0
6022	16/06/2021 00:06	-26.16	1010.08	6.4	-0.03	-0.03	0.05	0	20.44	3.43	25.73	0	0.16	1.47	14.2	67	1013	9.6	14.3	0	0
6022	16/06/2021 01:24	-31.52	1012.24	6.38	-0.04	-0.03	0.03	0.01	20.32	3.43	26.71	0	0.22	1.49	14.9	63	1012	9.4	14.3	0	0
6022	16/06/2021 02:42	-35.42	1009.6	6.37	-0.04	-0.03	0.03	0.02	20.22	3.43	27.36	0	0.22	1.48	14.3	65	1011	7.7	10.9	0	0
6022	16/06/2021 04:00	-39.2	1009.12	6.35	-0.04	-0.03	0.03	0.01	20.14	3.43	27.83	0	0.19	1.5	13.4	71	1011	11.1	18.1	0	0
6022	16/06/2021 05:18	-36.52	1007.92	6.33	-0.04	-0.03	0.06	0	20.07	3.43	28.12	0	0.18	1.44	14.2	67	1010	12	19.4	0	0
6022	16/06/2021 06:36	-39.69	1007.68	6.32	-0.04	-0.03	0.04	0	20.05	3.43	29.23	0	0.19	1.45	14.8	72	1009	10	15.6	0	0
6022	16/06/2021 07:54	-34.08	1007.44	6.33	-0.04	-0.03	0.03	0.01	20.11	3.43	29.3	0	0.18	1.47	15.7	71	1009	9.2	13.7	0	0
6022	16/06/2021 09:11	-11.53	1007.68	6.6	-0.04	-0.03	0.03	0	20.39	4.29	36.55	0	0.26	1.44	16.6	70	1009	14.7	21.6	0	0
6022	16/06/2021 10:28	10.78	1008.4	6.72	-0.03	-0.03	0.03	0	20.77	5.52	34.02	0	0.26	1.49	19.2	61	1009	20.1	32	0	0
6022	16/06/2021 11:46	31.62	1007.68	6.72	-0.03	-0.03	0.07	0	21.04	6.38	30.08	0	0.26	1.44	19.8	61	1009	18.6	32.5	0	0
6022	16/06/2021 13:04	42.83	1006.24	6.71	-0.03	-0.03	0.04	0	21.25	6.87	27.36	0	0.26	1.47	20.1	61	1009	20.7	35.7	0	0
6022	16/06/2021 14:22	49.05	1007.68	6.72	-0.03	-0.02	0.02	0	21.39	7.36	25.69	0	0.33	1.45	20.7	60	1008	20.3	35.2	0	0
6022	16/06/2021 15:41	48.68	1005.28	6.72	-0.03	-0.02	0.04	0	21.44	7.48	24.73	0	0.33	1.47	20.6	57	1008.5	18.1	29.9	0	0
6022	16/06/2021 16:59	48.81	1005.76	6.6	-0.03	-0.02	0.02	0.01	21.44	7.48	23.91	0	0.47	1.45	20.3	56	1009	15.4	18.1	0.3	0.3
6022	16/06/2021 18:17	33.93	1003.36	6.48	-0.03	-0.02	0.04	0	21.33	6.87	23.47	0	0.54	1.47	19.1	57	1008	12.8	20.9	0	0
6022	16/06/2021 19:35	16.38	1002.16	6.43	-0.03	-0.03	0.07	0	21.15	6.01	23.42	0	0.35	1.47	18.3	59	1008.7	15.8	27.8	0	0
6022	16/06/2021 20:54	0.17	1005.28	6.42	-0.03	-0.03	0.04	0	20.88	5.03	23.76	0	0.26	1.45	17.6	63	1009	11.1	16.9	0	0
6022	16/06/2021 22:12	-15.19	1004.32	6.41	-0.03	-0.03	0.03	0	20.62	4.29	24.06	0	0.21	1.45	16.7	70	1009	10.5	18.4	0	0
6022	16/06/2021 23:30	-22.38	1005.52	6.39	-0.03	-0.03	0.04	0	20.47	4.17	26.11	0	0.24	1.46	14.9	77	1010	7.9	9.4	0	0
6022	17/06/2021 02:06	-23.11	1003.6	6.37	-0.03	-0.03	0.14	0.01	20.35	4.04	27.53	0	0.19	1.46	13.9	73	1010	10	18.6	0	0
6022	17/06/2021 03:23	-22.5	1002.4	6.35	-0.03	-0.03	0.15	0	20.31	4.04	27.85	0	0.21	1.43	13.4	75	1010	10.5	17.1	0	0
6022	17/06/2021 04:41	-22.38	1002.4	6.34	-0.03	-0.03	0.16	0.01	20.3	3.92	27.96	0	0.21	1.46	13.2	82	1009	7.3	10.9	0	0
6022	17/06/2021 05:59	-24.57	1002.4	6.33	-0.03	-0.03	0.14	0	20.29	3.92	28.05	0	0.21	1.49	12.6	88	1010	8.5	13.5	0	0
6022	17/06/2021 07:17	-23.72	1003.36	6.32	-0.03	-0.03	0.14	0.02	20.29	3.92	28.17	0	0.21	1.43	12.3	90	1010	10.7	18.8	0	0
6022	17/06/2021 08:35	-19.82	1003.6	6.39	-0.03	-0.03	0.14	0	20.31	4.17	28.48	0	0.19	1.48	13.8	81	1011	9	13.5	0	0
6022	17/06/2021 09:52	-19.82	1003.36	6.42	-0.03	-0.03	0.15	0	20.37	4.17	28.52	0	0.21	1.49	14.2	78	1011	9.6	16.2	0	0
6022	17/06/2021 11:10	-12.51	1005.52	6.39	-0.03	-0.03	0.13	0	20.42	4.29	28.02	0	0.22	1.49	14.5	74	1011	10	17.5	0	0
6022	17/06/2021 12:28	-14.46	1004.32	6.49	-0.03	-0.03	0.14	0	20.44	4.29	28.42	0	0.19	1.46	15.6	67	1011	6.8	8.5	0	0
6022	17/06/2021 13:46	-5.07	1004.32	6.62	-0.03	-0.03	0.14	0	20.52	4.29	28.89	0	0.16	1.45	17.4	62	1011	8.1	13.2	0	0
6022	17/06/2021 15:03	-0.2	1007.2	6.52	-0.03	-0.03	0.11	0	20.65	4.66	28.41	0	0.22	1.47	17.6	61	1012	14.3	24.6	0	0
6022	17/06/2021 16:21	-8.24	1005.28	6.48	-0.03	-0.03	0.11	0	20.61	4.29	25.92	0	0.18	1.45	17.9	57	1012	14.7	25.4	0	0
6022	17/06/2021 17:39	-9.34	1006	6.46	-0.03	-0.03	0.08	0	20.56	4.29	26.69	0	0.21	1.47	18	55	1013	13.5	24.6	0	0
6022	17/06/2021 18:57	-11.29	1006.48	6.42	-0.03	-0.03	0.15	0	20.49	4.29	25.75	0	0.19	1.47	17.7	56	1014	14.5	24.3	0	0
6022	17/06/2021 20:15	-15.68	1007.44	6.38	-0.03	-0.03	0.14	0	20.4	4.17	26.54	0	0.19	1.46	17.5	59	1014	11.3	19	0	0
6022	17/06/2021 22:51	-22.99	1007.68	6.32	-0.03	-0.03	0.15	0	20.31	4.04	27.45	0	0.21	1.46	14.6	73	1015	5.1	7.9	0	0
6022	18/06/2021 01:27	-21.4	1008.64	6.31	-0.03	-0.03	0.15	0.04	20.24	3.43	27.71	0	0.16	1.48	12.3	76	1016	6.8	10.5	0	0
6022	18/06/2021 02:45	-26.77	1007.2	6.31	-0.04	-0.03	0.14	0.01	20.21	3.55	27.86	0	0.15	1.44	11.7	79	1017	12	19.6	0	0
6022	18/06/2021 04:02	-24.57	1007.2	6.31	-0.03	-0.03	0.14	0.02	20.18	3.55	27.86	0	0.19	1.43	11.5	74	1017	9	15.6	0	0
6022	18/06/2021 05:20	-24.21	1008.16	6.3	-0.03	-0.03	0.15	0	20.15	3.43	27.89	0	0.18	1.4	10.6	76	1018	9.4	14.7	0	0
6022	18/06/2021 06:38	-26.04	1007.44	6.3	-0.04	-0.03	0.14	0	20.13	3.43	27.84	0	0.19	1.36	8.3	84	1019	9.8	15.4	0	0
6022	18/06/2021 07:56	-26.65	1004.56	6.3	-0.04	-0.03	0.15	0	20.14	3.43	27.73	0	0.16	1.4	7.6	94	1019	10.2	16.2	0	0
6022	18/06/2021 09:14	-25.06	1007.44	6.3	-0.03	-0.03	0.15	0.01	20.11	3.43	27.64	0	0.16	1.34	12.9	71	1019	13.2	19.6	0	0
6022	18/06/2021 10:32	-23.84	1006.72	6.3	-0.04	-0.03	0.14	0.01	20.11	3.43	27.81	0	0.18	1.33	15.2	63	1019	11.3	18.4	0	0
6022	18/06/2021 11:49	-26.4	1006	6.33	-0.03	-0.03	0.13	0.01	20.07	3.43	27.64	0	0.19	1.24	15.7	64	1019	13.9			

6022	23/06/2021 16:21	28.57	1016.8	6.72	-0.03	-0.03	0.08	0	21.11	7.6	26.38	0	0.22	0.47	17.8	59	1022	16.9	27.5	0	0
6022	23/06/2021 17:40	24.79	1016.8	6.51	-0.03	-0.03	0.07	0	21.08	7.36	25.42	0	0.18	0.5	19.1	58	1022	17.5	30.1	0	0
6022	23/06/2021 18:57	15.41	1017.04	6.68	-0.03	-0.03	0.07	0	21	6.87	25.8	0	0.21	0.55	16.9	67	1022	17.7	31.2	0	0
6022	23/06/2021 20:15	7.36	1018.96	6.47	-0.03	-0.03	0.06	0	20.92	6.74	25.73	0	0.18	0.5	17.9	64	1022	15.8	27.5	0	0
6022	23/06/2021 21:34	-9.82	1017.76	6.42	-0.03	-0.03	0.03	0	20.68	6.01	25.08	0	0.19	0.53	16.1	73	1022	15.8	29.9	0	0
6022	23/06/2021 22:52	-25.3	1018	6.4	-0.03	-0.03	0.02	0	20.42	4.41	26.67	0	0.19	0.54	15.2	81	1022	13.7	23.3	0.3	0.3
6022	24/06/2021 00:10	-30.06	1017.28	6.38	-0.04	-0.03	0.03	0.02	20.25	4.29	28.05	0	0.21	0.5	14.6	85	1022	12.2	20.3	0	0
6022	24/06/2021 01:28	-35.3	1017.52	6.37	-0.04	-0.03	0.05	0.01	20.14	4.29	28.93	0	0.13	0.5	14.1	88	1022	11.3	20.7	0	0
6022	24/06/2021 02:46	-38.35	1018.96	6.36	-0.04	-0.03	0.06	0	20.04	4.17	29.59	0	0.15	0.49	13.8	92	1022	11.1	19.2	0.2	0.2
6022	24/06/2021 04:04	-17.63	1016.8	6.35	-0.04	-0.03	0.06	0	19.97	3.8	30.14	0	0.21	0.58	13	100	1021	10	17.5	0	0
6022	24/06/2021 05:22	-16.16	1018	6.34	-0.04	-0.03	0.09	0	19.89	3.43	30.41	0	0.18	0.57	13.9	92	1021	10.2	15.6	0	0
6022	24/06/2021 06:40	-15.8	1016.08	6.35	-0.04	-0.04	0.09	0.01	19.86	3.8	31.7	0	0.22	0.55	14.6	98	1021	10.2	18.4	0	0
6022	24/06/2021 07:57	-14.82	1019.2	6.38	-0.04	-0.03	0.08	0	19.95	4.29	31.74	0	0.22	0.56	15.1	97	1020	12.8	14.3	0	0
6022	24/06/2021 09:15	-11.29	1017.52	6.62	-0.04	-0.03	0.05	0.01	20.2	5.27	38.48	0	0.21	0.56	14.4	100	1020	12	25.2	0	0

APPENDIX H – Vapour Modelling Input Parameters

Vapour Modelling Input
Parameters

Table H1: Calculation of Tolerable Concentration in Air

Contaminant	Inhal HCV			Inhal MDI for adults		Convert ($\mu\text{g day}^{-1}$)		Apply MDI		ADE	Indoor Air GAC ($\mu\text{g m}^{-3}$)
	Type	$\mu\text{g kg}^{-1} \text{ BW day}^{-1}$	Source	$\mu\text{g day}^{-1}$	Source	Inhal HCV	Inhal MDI (female child AC1 to AC6)	Is HCV a TDI?	Is MDI >50%TDI?	$\mu\text{g day}^{-1}$	
Petroleum Hydrocarbons											
Methyl tert butyl ether (MTBE)	TDI	722	EIC/AGS/ CL:AIRE GAC 2010	200	EIC/AGS/ CL:AIRE GAC 2010	9,603	87.67	Y	N	9,514.93	1203
Benzene (HCV)	ID	1.4	LQM S4UL 2015	NR		18.62	NR	N	NR	18.62	2.35
Benzene (Resi LLTC)	ID	3.3	CL:AIRE C4SL 2014	NR		43.89	NR	N	NR	43.89	5.55
Toluene	TDI	1,400	LQM S4UL 2015	92	LQM S4UL 2015	18,620	40.33	Y	N	18,580	2,348
Ethylbenzene	TDI	74.3	LQM S4UL 2015	18.6	LQM S4UL 2015	988	8.15	Y	N	980	124
Xylenes (total)	TDI	60	LQM S4UL 2015	104	LQM S4UL 2015	798	45.59	Y	N	752	95.1
							-				
Aliphatic >5-6	TDI	5,000	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	66,500	4.38E+99	Y	Y	33,250	4,202
Aliphatic >6-8	TDI	5,000	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	66,500	4.38E+99	Y	Y	33,250	4,202
Aliphatic >8-10	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aliphatic >10-12	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aliphatic >12-16	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aromatic EC5-EC7	TDI	1,400	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	18,620	4.38E+99	Y	Y	9,310	1,177
Aromatic >EC7-EC8	TDI	1,400	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	18,620	4.38E+99	Y	Y	9,310	1,177
Aromatic >EC8-EC10	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
Aromatic >EC10-EC12	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
Aromatic >EC12-EC16	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
Chlorinated VOCs											
1,2,4 Trichlorobenzene	TDI	2.3	LQM S4UL 2016	63	LQM S4UL 2016	31	27.61	Y	Y	15.295	1.93
Miscellaneous											
Carbon disulphide	TDI	28.6	LQM S4UL 2016	1000	LQM S4UL 2016	380	438.33	Y	Y	190.19	24.04

Soil type: Silty clay

[illegible]

Table H3: Calculation of Steady state attenuation coefficient

Soil type: Silty clay
 Building Type: Semi-detached house

Constituent	Steady state attenuation coefficient (α)	If Peclet at ∞ steady state attenuation coefficient (α)	Peclet number	Diffusion coefficient in soil (D_{soil})	Area of enclosed floor and wall below ground (A_{eq})	Building Ventilation Rate (Q_b)	Source-building separation (L_s)	Volumetric flow rate into enclosed space (Q_s)	Foundation Slab thickness (L_{fslab})	Floor crack area (A_{crack})	Diffusion coefficient through cracks (D_{crack})
	Dimensionless	Dimensionless	Dimensionless	$cm^2 s^{-1}$	cm^2	$cm^3 s^{-1}$	cm	$cm^3 s^{-1}$	cm	cm^2	Dimensionless
Benzene		5.74E-05	#NUM!	2.05E-04	430000	28666.67	50	25	15	524.6	2.05E-04
Ethyl Benzene		4.62E-05	#NUM!	1.62E-04	430000	28666.67	50	25	15	524.6	1.62E-04
m xylene		4.68E-05	#NUM!	1.65E-04	430000	28666.67	50	25	15	524.6	1.65E-04
p xylene		4.70E-05	#NUM!	1.66E-04	430000	28666.67	50	25	15	524.6	1.66E-04
o xylene		4.74E-05	#NUM!	1.67E-04	430000	28666.67	50	25	15	524.6	1.67E-04
Aliphatic (C8-C10)		6.04E-05	#NUM!	2.16E-04	430000	28666.67	50	25	15	524.6	2.16E-04
Aromatic (EC8-EC10)		6.31E-05	#NUM!	2.27E-04	430000	28666.67	50	25	15	524.6	2.27E-04
1,2,4 Trichlorobenzene		4.81E-05	#NUM!	1.70E-04	430000	28666.67	50	25	15	524.6	1.70E-04
Carbon disulphide		6.40E-05	#NUM!	2.30E-04	430000	28666.67	50	25	15	524.6	2.30E-04

Table H4: Calculation of Building Ventilation Rate

Building type: Semi-detached house

Building Ventilation Rate (Q _b)	Height of living space (H)	Building Footprint (A _{foot})	Air Exchange Rate (Ex)
cm ³ s ⁻¹	m	m ²	hour ⁻²
28666.66667	4.8	43	0.5

Table H5: Calculation of Indoor Air Concentration

Soil type: Silty clay
Building Type: Semi-detached house

Constituent	Indoor Air Concentration - BH106	Indoor Air Concentration WS106	Soil Vapour Concentration - BH106	Soil Vapour Concentration - WS106	Steady state attenuation coefficient (α)
	(C_{air}) $\mu\text{g m}^{-3}$	(C_{air}) $\mu\text{g m}^{-3}$	(C_{vap}) $\mu\text{g m}^{-3}$	(C_{vap}) $\mu\text{g m}^{-3}$	
Benzene	3.87E-03	5.20E-03	67.4	90.6	5.74E-05
Ethyl Benzene	6.09E-03	6.00E-03	132	130	4.62E-05
m xylene	2.99E-02	3.14E-02	640	672	4.68E-05
p xylene	3.01E-02	3.16E-02	640	672	4.70E-05
o xylene	7.58E-03	7.44E-03	160	157	4.74E-05
Aliphatic (C8-C10)	3.96E-02	3.01E-02	656	498	6.04E-05
Aromatic (EC8-EC10)	8.46E-02	8.33E-02	1340	1320	6.31E-05
1,2,4 Trichlorobenzene	1.23E-02	1.27E-02	256	264	4.81E-05
Carbon disulphide	5.14E-03		8.02E+01	-	6.40E-05

APPENDIX I – Field Monitoring Records

Field Monitoring Records

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-0.1	0.0	0.0	16.0	0	0
		00:15	0.0	0.0	0.0	16.0	0	0
		00:30	0.0	0.0	0.0	16.2	0	0
VOC peak (ppm)	1.2	01:00	-1.7	0.0	0.0	21.2	0	0
VOC steady (ppm)	1	01:30	-0.6	0.1	0.9	21.2	0	0
		02:00	0.0	0.1	0.9	21.2	0	0
Borehole Depth (mbgl)	2.2	02:30		0.1	0.9	21.2	0	0
		03:00		0.1	0.9	21.2	0	0
Water level (mbgl)	1.05	03:30		0.1	0.9	21.2	0	0
		04:00		0.1	0.9	21.2	0	0
Borehole Pressure (mb)	996	04:30		0.1	0.9	21.2	0	0
		05:00		0.1	0.9	21.2	0	0
WS103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.1	0.0	0.1	20.3	0	0
		00:15	0.0	0.0	0.0	20.3	21	0
		00:30	0.0	0.0	0.0	20.4	18	0
VOC peak (ppm)	0	01:00	0.0	0.0	0.1	20.7	8	0
VOC steady (ppm)	0	01:30		0.0	0.1	20.8	5	0
		02:00		0.0	0.1	20.9	4	0
Borehole Depth (mbgl)	3	02:30		0.0	0.1	20.9	3	0
		03:00		0.0	0.1	20.9	2	0
Water level (mbgl)	0.2	03:30		0.0	0.1	20.9	1	0
		04:00		0.0	0.1	20.9	1	0
Borehole Pressure (mb)	1008	04:30		0.0	0.1	20.9	1	0
		05:00		0.0	0.1	20.9	0	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	H ² S (ppm)	
		00:00	0.0	0.0	0.0	16.0	0	0
		00:15	0.0	0.0	0.0	16.0	0	0
		00:30	0.0	0.0	0.0	16.2	0	0
VOC peak (ppm)	0	01:00		0.0	0.0	21.2	0	0
VOC steady (ppm)	0	01:30		0.1	0.9	21.2	0	0
		02:00		0.1	0.9	21.2	0	0
Borehole Depth (mbgl)	1.85	02:30		0.1	0.9	21.2	0	0
		03:00		0.1	0.9	21.2	0	0
Water level (mbgl)	1.4	03:30		0.1	0.9	21.2	0	0
		04:00		0.1	0.9	21.2	0	0
Borehole Pressure (mb)	1009	04:30		0.1	0.9	21.2	0	0
		05:00		0.1	0.9	21.2	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	H ² S (ppm)	
		00:00	-5.1	0.0	0.0	20.6	0	0
		00:15	-4.6	0.0	0.9	20.5	0	0
		00:30	-2.8	0.0	0.9	20.2	11	0
VOC peak (ppm)	1.8	01:00	-1.7	0.1	0.9	20.0	11	0
VOC steady (ppm)	1.7	01:30	-0.6	0.1	0.9	20.0	10	0
		02:00	0.0	0.1	0.9	20.0	10	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.9	20.0	9	0
		03:00		0.1	0.9	20.0	9	0
Water level (mbgl)	0.85	03:30		0.1	0.9	20.0	9	0
		04:00		0.1	0.9	20.0	9	0
Borehole Pressure (mb)	997	04:30		0.1	0.9	20.0	9	0
		05:00		0.1	0.9	20.0	9	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	16.2	0	0
		00:15	0.4	0.0	0.0	15.3	0	0
		00:30	0.2	0.0	0.0	15.0	0	0
VOC peak (ppm)	0.8	01:00	0.0	0.0	0.0	14.9	0	0
VOC steady (ppm)	0.7	01:30		0.0	0.0	14.9	0	0
		02:00		0.0	0.0	14.9	0	0
Borehole Depth (mbgl)	0.9	02:30		0.0	0.0	14.8	0	0
		03:00		0.0	0.0	14.8	0	0
Water level (mbgl)	0.7	03:30		0.0	0.0	14.8	0	0
		04:00		0.0	0.0	14.8	0	0
Borehole Pressure (mb)	1001	04:30		0.0	0.0	14.8	0	0
		05:00		0.0	0.0	14.8	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.4	0	0
		00:15	0.8	0.0	0.0	21.0	2	0
		00:30	0.2	0.1	0.0	20.6	3	0
VOC peak (ppm)	3.1	01:00	0.0	0.0	0.0	20.5	2	0
VOC steady (ppm)	2.2	01:30		0.0	0.0	20.5	3	0
		02:00		0.0	0.0	20.5	3	0
Borehole Depth (mbgl)	1.95	02:30		0.0	0.0	20.5	2	0
		03:00		0.0	0.0	20.5	3	0
Water level (mbgl)	0.95	03:30		0.0	0.0	20.5	2	0
		04:00		0.0	0.0	20.5	2	0
Borehole Pressure (mb)	1000	04:30		0.1	0.0	20.5	3	0
		05:00		0.1	0.0	20.5	0	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS115 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	17.7	0.0	0.0	21.0	0	0
		00:15	15.4	0.0	0.0	16.3	0	0
		00:30	13.6	0.0	0.0	16.3	0	0
VOC peak (ppm)	0.8	01:00	10.5	0.0	0.0	16.2	0	0
VOC steady (ppm)	0.7	01:30	8.2	0.0	0.0	16.2	0	0
		02:00	7.0	0.0	0.0	16.2	0	0
Borehole Depth (mbgl)	1.9	02:30	5.1	0.0	0.0	16.3	0	0
		03:00	3.2	0.0	0.0	16.3	0	0
Water level (mbgl)	0.7	03:30	1.5	0.0	0.0	16.3	0	0
		04:00	0.0	0.0	0.0	16.3	0	0
Borehole Pressure (mb)	1001	04:30	0.0	0.0	0.0	16.3	0	0
		05:00		0.0	0.0	16.3	0	0
WS116 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	-1.1	0.0	0.0	20.1	0	0
		00:15	0.0	0.0	0.7	16.2	0	0
		00:30		0.0	0.0	16.1	0	0
VOC peak (ppm)	0.1	01:00		0.0	0.0	16.1	0	0
VOC steady (ppm)	0	01:30		0.0	0.0	16.1	0	0
		02:00		0.0	0.0	16.1	0	0
Borehole Depth (mbgl)	1.55	02:30		0.0	0.0	16.1	0	0
		03:00		0.0	0.0	16.1	0	0
Water level (mbgl)	0.3	03:30		0.0	0.0	16.1	0	0
		04:00		0.0	0.0	16.2	0	0
Borehole Pressure (mb)	995	04:30		0.0	0.0	16.2	0	0
		05:00		0.0	0.0	16.2	0	0

Continuous Gas Monitoring Record								
Date	08/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	-2					
Site	Novartis	Ambient Pressure	1002					
WS118 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	66.6	0.0	0.0	16.7	0	0
		00:15	28.3	0.0	0.1	3.0	0	0
		00:30	19.6	0.0	0.0	2.6	0	0
VOC peak (ppm)	0.8	01:00	1.5	0.0	0.0	2.6	0	0
VOC steady (ppm)	0.7	01:30	1.5	0.0	0.0	2.6	0	0
		02:00	steady	0.0	0.0	2.6	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	0.0	2.6	0	0
		03:00		0.0	0.0	2.6	0	0
Water level (mbgl)	0.5	03:30		0.0	0.0	2.6	0	0
		04:00						
Borehole Pressure (mb)	996	04:30	Water uptake - gas monitoring terminated					
		05:00						
BH101 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	16.3	0	0
		00:15	0.3	0.0	0.0	16.2	0	0
		00:30	0.1	0.0	0.0	16.2	0	0
VOC peak (ppm)	3.1	01:00	0.0	0.0	0.0	16.2	0	0
VOC steady (ppm)	2.2	01:30		0.0	0.0	16.2	0	0
		02:00		0.0	0.0	16.2	0	0
Borehole Depth (mbgl)	1.95	02:30		0.0	0.0	16.3	0	0
		03:00		0.0	0.0	16.2	0	0
Water level (mbgl)	0.95	03:30		0.0	0.0	16.2	0	0
		04:00		0.0	0.0	16.2	0	0
Borehole Pressure (mb)	1000	04:30						
		05:00						
BH103 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-0.1	0.0	0.0	16.0	0	0
		00:15	0.0	0.0	0.0	16.0	0	0
		00:30	0.0	0.0	0.0	16.2	0	0
VOC peak (ppm)	1.2	01:00	0.0	0.0	0.0	16.2	0	0
VOC steady (ppm)	1.1	01:30		0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	2.2	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	1.05	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	996	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS102		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.0	0.1	0.1	21.0	0	0
		00:15	0.0	0.1	0.1	20.5	0	0
		00:30	0.0	0.1	0.1	21.0	0	0
VOC peak (ppm)	0.7	01:00		0.1	0.1	21.1	0	0
VOC steady (ppm)	0.7	01:30		0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	1	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1014	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.0	0.1	0.1	21.4	0	0
		00:15	-2.3	0.1	0.0	21.3	3	0
		00:30	-0.1	0.1	0.0	20.9	9	0
VOC peak (ppm)	1.1	01:00	0.0	0.1	0.0	20.9	9	0
VOC steady (ppm)	1.1	01:30		0.1	0.0	20.8	9	0
		02:00		0.1	0.0	20.8	1	0
Borehole Depth (mbgl)	2.9	02:30						
		03:00						
Water level (mbgl)	0.1	03:30						
		04:00						
Borehole Pressure (mb)	1014	04:30						
		05:00						

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-2.7	0.1	0.1	20.0	0	0
		00:15	-2.6	0.1	0.2	19.7	3	0
		00:30	-1.6	0.1	6.8	18.7	3	0
VOC peak (ppm)	3.9	01:00	-0.6	0.1	7.9	18.6	3	0
VOC steady (ppm)	3.5	01:30	0.0	0.1	8.5	18.5	4	0
		02:00		0.1	8.5	18.3	4	0
Borehole Depth (mbgl)	1.95	02:30		0.1	8.5	18.3	4	0
		03:00		0.1	8.6	18.3	3	0
Water level (mbgl)	0.9	03:30		0.1	7.9	18.4	2	0
		04:00		0.1	7.7	18.5	2	0
Borehole Pressure (mb)	1014	04:30		0.1	7.5	18.5	1	0
		05:00		0.1	7.5	18.5	1	0
WS106 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.5	0	0
		00:15	-5.7	0.1	0.0	19.9	0	0
		00:30	-2.5	0.5	0.5	17.5	0	0
VOC peak (ppm)	1.2	01:00	-0.2	0.5	0.6	16.5	0	0
VOC steady (ppm)	1.2	01:30	0.0	0.5	0.6	16.3	0	0
		02:00		0.5	0.6	16.3	0	0
Borehole Depth (mbgl)	1.8	02:30		0.5	0.6	16.2	0	0
		03:00		0.5	0.6	16.2	0	0
Water level (mbgl)	1.4	03:30		0.5	0.6	16.2	0	0
		04:00		0.5	0.6	16.2	0	0
Borehole Pressure (mb)	1014	04:30		0.5	0.6	16.2	0	0
		05:00		0.5	0.6	16.2	0	0
WS108 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.3	0	0
		00:15	0.0	0.1	0.9	20.5	0	0
		00:30	0.0	0.1	1.4	19.7	1	0
VOC peak (ppm)	1.5	01:00		0.1	1.5	19.7	1	0
VOC steady (ppm)	1.4	01:30		0.1	1.5	19.7	1	0
		02:00		0.1	1.3	19.8	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	1.2	19.9	0	0
		03:00		0.1	1.2	20.0	0	0
Water level (mbgl)	0.9	03:30		0.1	1.2	20.0	0	0
		04:00		0.1	1.2	20.0	0	0
Borehole Pressure (mb)	1014	04:30		0.1	1.1	20.1	0	0
		05:00		0.1	1.0	20.1	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.1	0	0
VOC peak (ppm) 4.5		00:15	0.0	0.2	0.1	21.1	0	0
		00:30		0.2	0.2	20.4	0	0
VOC steady (ppm) 4.5		01:00		0.2	0.2	20.4	0	0
		01:30		0.2	0.2	20.4	0	0
Borehole Depth (mbgl) 2.85		02:00		0.2	0.2	20.4	0	0
		02:30		0.3	0.2	20.4	0	0
Water level (mbgl) 1.1		03:00		0.3	0.2	20.4	0	0
		03:30		0.3	0.2	20.4	0	0
Borehole Pressure (mb) 1013		04:00		0.3	0.2	20.4	0	0
		04:30		0.3	0.1	20.4	0	0
		05:00		0.3	0.1	20.4	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.1	0	0
VOC peak (ppm) 0.6		00:15	-0.1	0.0	0.0	21.0	0	0
		00:30	-0.1	0.0	0.0	20.5	0	0
VOC steady (ppm) 0.5		01:00	0.0	0.0	0.0	20.4	0	0
		01:30		0.0	0.0	20.4	0	0
Borehole Depth (mbgl) 1.15		02:00		0.0	0.0	20.4	0	0
		02:30		0.1	0.0	20.4	0	0
Water level (mbgl) 1.1		03:00		0.1	0.0	20.4	0	0
		03:30		0.1	0.0	20.3	0	0
Borehole Pressure (mb) 1013		04:00		0.1	0.0	20.3	0	0
		04:30		0.1	0.0	20.3	0	0
		05:00		0.1	0.0	20.3	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.3	0	0
VOC peak (ppm) 4.8		00:15	0.0	0.1	0.0	21.2	0.0	0
		00:30	0.0	0.1	0.0	20.9	0.0	0
VOC steady (ppm) 4.7		01:00		0.1	0.0	20.8	0.0	0
		01:30		0.2	0.0	20.8	0.0	0
Borehole Depth (mbgl) 1.9		02:00		0.2	0.0	20.8	0.0	0
		02:30		0.2	0.0	20.8	0.0	0
Water level (mbgl) 1.25		03:00		0.2	0.0	20.9	0.0	0
		03:30		0.2	0.0	20.9	0.0	0
Borehole Pressure (mb) 1013		04:00		0.2	0.0	20.9	0.0	0
		04:30		0.2	0.0	20.9	0.0	0
		05:00		0.2	0.0	20.9	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
WS115 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.2	0.0	21.2	0	0
		00:15	0.0	0.2	0.0	21.2	0	0
		00:30	0.0					
VOC peak (ppm)	Not Measured	01:00			Analox fan cut out due to blockage or shallow water within borehole			
VOC steady (ppm)	Not Measured	01:30						
		02:00						
Borehole Depth (mbgl)	1.9	02:30						
		03:00						
Water level (mbgl)	0.7	03:30						
		04:00						
Borehole Pressure (mb)	1013	04:30						
		05:00						
WS116 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	-0.1	0.1	0.0	21.2	0	0
		00:30	0.0	0.1	0.0	21.1	0	0
VOC peak (ppm)	0.6	01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)	0.5	01:30		0.2	0.0	21.1	0	0
		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.2	0.0	21.1	0	0
		03:00						
Water level (mbgl)	0.45	03:30			Gas monitoring terminated due to the uptake of water to avoid equipment damage			
		04:00						
Borehole Pressure (mb)	1013	04:30						
		05:00						
WS118 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	1.7	20.9	0	0
		00:30	0.0	0.1	1.5	20.8	0	0
VOC peak (ppm)	1.2	01:00		0.1	1.3	20.8	0	0
VOC steady (ppm)	1.1	01:30		0.1	1.0	20.9	0	0
		02:00		0.1	0.7	21.0	0	0
Borehole Depth (mbgl)	1.7	02:30		0.1	0.7	21.1	0	0
		03:00		0.1	0.5	21.1	0	0
Water level (mbgl)	0.7	03:30		0.1	0.5	21.2	0	0
		04:00		0.1	0.5	21.2	0	0
Borehole Pressure (mb)	1012	04:30		0.1	0.4	21.2	0	0
		05:00		0.1	0.4	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/02/2021	Engineer	HG					
Project No	LP2441	Temp °C	10					
Site	Novartis	Ambient Pressure	1014					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.0	0	0
		00:15	0.0	0.2	0.0	21.0	0	0
		00:30	0.0	0.2	0.0	21.1	0	0
VOC peak (ppm)	0.4	01:00		0.2	0.0	21.2	0	0
VOC steady (ppm)	0.3	01:30		0.2	0.0	21.2	0	0
		02:00		0.2	0.0	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.2	0	0
		03:00		0.2	0.0	21.2	0	0
Water level (mbgl)	1.2	03:30		0.2	0.0	21.3	0	0
		04:00		0.2	0.0	21.3	0	0
Borehole Pressure (mb)	1013	04:30		0.2	0.0	21.3	0	0
		05:00		0.2	0.0	21.3	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.0	0	0
		00:15	-0.1	0.0	0.0	21.0	0	0
		00:30	0.0	0.0	0.0	21.1	0	0
VOC peak (ppm)	1.7	01:00	0.0	0.0	0.0	21.1	0	0
VOC steady (ppm)	1.3	01:30		0.1	0.0	21.1	0	0
		02:00		0.0	0.0	21.1	0	0
Borehole Depth (mbgl)	2.15	02:30		0.0	0.0	21.2	0	0
		03:00		0.0	0.0	21.2	0	0
Water level (mbgl)	1.25	03:30		0.0	0.0	21.2	0	0
		04:00		0.0	0.0	21.2	0	0
Borehole Pressure (mb)	1013	04:30		0.0	0.0	21.2	0	0
		05:00		0.0	0.0	21.2	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	-4.8	0.1	0.1	21.2	0	0
		00:15	-5.6	0.1	0.1	21.2	0	0
		00:30	-5.7	0.1	0.1	21.2	0	0
VOC peak (ppm)	0.3	01:00	-5.7	0.1	0.1	21.2	0	0
VOC steady (ppm)	0.3	01:30	-5.7	0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	16.4	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1014	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS102		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.9	0	0
Hole ID		00:15	0.0	0.1	1.1	19.7	2	0
VOC peak (ppm)	0.4	00:30		0.1	0.8	20.6	0	0
		01:00		0.1	0.6	20.9	0	0
VOC steady (ppm)	0.3	01:30		0.1	0.5	20.9	0	0
		02:00		0.1	0.4	20.9	0	0
Borehole Depth (mbgl)	1.95	02:30		0.1	0.3	21.0	0	0
		03:00		0.1	0.3	21.0	0	0
Water level (mbgl)	1.7	03:30		0.1	0.3	21.0	0	0
		04:00		0.1	0.3	21.0	0	0
Borehole Pressure (mb)	1020	04:30		0.1	0.3	21.1	0	0
		05:00		0.1	0.3	21.1	0	0
WS103		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	21.0	0	0
Hole ID		00:15	-3.0	0.0	0.0	21.2	1	0
VOC peak (ppm)	0.8	00:30	0.0	0.0	0.0	21.4	1	0
		01:00		0.0	0.0	21.5	1	0
VOC steady (ppm)	0.8	01:30		0.0	0.0	21.5	1	0
		02:00		0.0	0.0	21.6	1	0
Borehole Depth (mbgl)	2.9	02:30		0.0	0.0	21.6	1	0
		03:00		0.0	0.0	21.6	1	0
Water level (mbgl)	0.75	03:30		0.0	0.0	21.6	1	0
		04:00		0.0	0.0	21.6	1	0
Borehole Pressure (mb)	1022	04:30		0.0	0.0	21.6	1	0
		05:00		0.0	0.0	21.6	1	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	0.0	0.1	0.3	21.1	0	0
		00:30	0.0	0.1	0.6	21.1	0	0
VOC peak (ppm)	1	01:00		0.1	0.2	21.1	0	0
VOC steady (ppm)	0.9	01:30		0.1	0.2	21.1	0	0
		02:00		0.1	0.2	21.1	0	0
Borehole Depth (mbgl)	1.95	02:30		0.1	0.2	21.1	0	0
		03:00		0.1	0.2	21.1	0	0
Water level (mbgl)	1.07	03:30		0.1	0.2	21.1	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1020	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.2	19.7	0	0
		00:15	0.1	0.0	1.7	18.0	<	0
		00:30	0.0	0.4	0.6	16.0	<	0
VOC peak (ppm)	0	01:00		0.4	0.7	15.5	<	0
VOC steady (ppm)	0	01:30		0.4	0.7	15.4	<	0
		02:00		0.4	0.7	15.3	<	0
Borehole Depth (mbgl)	1.95	02:30		0.4	0.7	15.3	<	0
		03:00		0.4	0.7	15.3	<	0
Water level (mbgl)	1.5	03:30		0.4	0.7	15.3	<	0
		04:00		0.4	0.7	15.3	<	0
Borehole Pressure (mb)	1022	04:30		0.4	0.7	15.3	<	0
		05:00		0.4	0.7	15.3	<	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.5	<	0
		00:15	-0.2	0.1	1.6	21.1	<	0
		00:30	0.0	0.1	2.2	20.6	<	0
VOC peak (ppm)	1.2	01:00		0.1	2.3	20.6	<	0
VOC steady (ppm)	1.1	01:30		0.1	2.3	20.5	0	0
		02:00		0.1	2.3	20.5	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	2.3	20.5	0	0
		03:00		0.1	2.3	20.5	0	0
Water level (mbgl)	1.05	03:30		0.1	2.3	20.5	0	0
		04:00		0.1	2.3	20.5	<	0
Borehole Pressure (mb)	1021	04:30		0.1	2.4	20.5	<	0
		05:00		0.1	2.4	20.5	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.3	21.1	0	0
		00:15	0.0	0.1	0.5	21.1	0	0
		00:30		0.1	0.2	21.1	0	0
VOC peak (ppm)	0.1	01:00		0.1	0.2	21.1	0	0
VOC steady (ppm)	0.1	01:30		0.1	0.2	21.1	0	0
		02:00		0.1	0.2	21.1	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.2	21.1	0	0
		03:00		0.1	0.2	21.1	0	0
Water level (mbgl)	1.3	03:30		0.1	0.2	21.1	0	0
		04:00		0.1	0.2	21.1	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.2	21.1	0	0
		05:00		0.1	0.2	21.1	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.0	0	0
		00:15	0.0	0.1	0.1	21.1	0	0
		00:30		0.1	0.0	20.8	0	0
VOC peak (ppm)	0.3	01:00		0.1	0.0	20.7	0	0
VOC steady (ppm)	0.3	01:30		0.1	0.0	20.7	0	0
		02:00		0.1	0.0	20.7	0	0
Borehole Depth (mbgl)	1.25	02:30		0.1	0.0	20.7	0	0
		03:00		0.1	0.0	20.7	0	0
Water level (mbgl)	1.2	03:30		0.1	0.0	20.7	0	0
		04:00		0.1	0.0	20.7	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	20.7	0	0
		05:00		0.1	0.0	20.7	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	0.0	0.1	0.0	20.9	0	0
		00:30	0.0	0.1	0.0	20.8	0	0
VOC peak (ppm)	2.5	01:00		0.1	0.0	20.8	0	0
VOC steady (ppm)	2.3	01:30		0.1	0.0	20.8	0	0
		02:00		0.1	0.0	20.7	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.0	20.7	0	0
		03:00		0.1	0.0	20.7	0	0
Water level (mbgl)	1.65	03:30		0.1	0.0	20.7	0	0
		04:00		0.1	0.0	20.7	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	20.7	0	0
		05:00		0.1	0.0	20.7	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.3	0	0
		00:15	-0.1	0.0	0.1	21.3	0	0
		00:30	0.0	0.0	0.1	21.3	0	0
VOC peak (ppm)	0.2	01:00		0.0	0.1	21.3	0	0
VOC steady (ppm)	0.2	01:30		0.0	0.1	21.3	0	0
		02:00		0.0	0.1	21.3	0	0
Borehole Depth (mbgl)	2	02:30		0.0	0.1	21.3	0	0
		03:00		0.0	0.1	21.3	0	0
Water level (mbgl)	1.5	03:30		0.0	0.1	21.3	0	0
		04:00		0.0	0.1	21.3	0	0
Borehole Pressure (mb)	1020	04:30		0.0	0.1	21.3	0	0
		05:00		0.0	0.1	21.3	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	-0.1	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC peak (ppm)	1.1	01:00		0.1	0.0	21.3	0	0
VOC steady (ppm)	0.9	01:30		0.1	0.0	21.3	0	0
		02:00		0.1	0.0	21.3	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.3	0	0
		03:00		0.1	0.0	21.3	0	0
Water level (mbgl)	0.7	03:30		0.1	0.0	21.3	0	0
		04:00		0.1	0.0	21.3	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.6	0	0
		00:15	0.0	0.0	1.5	21.1	0	0
		00:30		0.0	1.6	20.0	0	0
VOC peak (ppm)	0.2	01:00		0.0	1.6	20.0	0	0
VOC steady (ppm)	0.2	01:30		0.0	1.6	19.9	0	0
		02:00		0.0	1.6	19.8	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	1.6	19.7	0	0
		03:00		0.0	1.6	19.6	0	0
Water level (mbgl)	0.85	03:30		0.0	1.6	19.5	0	0
		04:00		0.0	1.6	19.3	0	0
Borehole Pressure (mb)	1022	04:30		0.0	1.6	19.3	0	0
		05:00		0.0	1.6	19.3	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.5	0	0
		00:15	0.0	0.1	0.0	21.2	0	0
		00:30	0.0	0.1	0.0	21.2	0	0
VOC peak (ppm)	1.4	01:00		0.1	0.0	21.2	0	0
VOC steady (ppm)	1.4	01:30		0.1	0.0	21.2	0	0
		02:00		0.1	0.0	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.2	0	0
		03:00		0.1	0.0	21.2	0	0
Water level (mbgl)	1.35	03:30		0.1	0.0	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.0	0	0
		00:15	0.0	0.1	1.1	18.6	0	0
		00:30		0.1	1.1	16.6	0	0
VOC peak (ppm)	0.6	01:00		0.1	1.1	16.1	0	0
VOC steady (ppm)	0.5	01:30		0.1	1.1	16.0	0	0
		02:00		0.1	1.2	16.0	0	0
Borehole Depth (mbgl)	2.15	02:30		0.1	1.2	15.8	0	0
		03:00		0.1	1.2	15.6	0	0
Water level (mbgl)	Dry	03:30		0.1	1.2	15.6	0	0
		04:00		0.1	1.2	15.6	0	0
Borehole Pressure (mb)	1020	04:30		0.1	1.2	15.6	0	0
		05:00		0.1	1.2	15.6	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.2	0	0
		00:15	3.8	0.0	5	13.8	8	0
		00:30	3.8	0.0	7.8	10.8	9	0
VOC peak (ppm)	0.3	01:00	3.8	0.0	7.9	10.5	9	0
VOC steady (ppm)	0.4	01:30	3.8	0.0	7.9	10.5	9	0
		02:00		0.0	7.9	10.4	9	0
Borehole Depth (mbgl)	20.3	02:30		0.0	7.9	10.4	9	0
		03:00		0.0	7.9	10.4	9	0
Water level (mbgl)	16.5	03:30		0.0	7.9	10.4	9	0
		04:00		0.0	7.9	10.4	9	0
Borehole Pressure (mb)	1022	04:30		0.0	7.9	10.4	9	0
		05:00		0.0	7.9	10.4	9	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS102		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.03	0.1	0.1	21.0	0	0
		00:15	0.01	0.1	0.1	21.0	0	0
		00:30	0.0	0.1	0.1	21.0	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.2	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.2	20.8	0	0
		02:00		0.2	0.2	20.8	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.2	20.9	0	0
		03:00		0.1	0.1	21.0	0	0
Water level (mbgl)	1.3	03:30		0.1	0.1	21.0	0	0
		04:00		0.1	0.1	21.0	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.1	21.0	0	0
		05:00		0.1	0.1	21.0	0	0
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.1	0.1	0.0	20.9	0	0
		00:15	0.0	0.1	0.0	20.9	1	0
		00:30		0.1	0.0	20.9	1	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	20.9	1	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.9	1	0
		02:00		0.1	0.0	20.9	1	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.0	20.9	0	0
		03:00		0.1	0.0	20.9	0	0
Water level (mbgl)	0.5	03:30		0.1	0.0	20.9	1	0
		04:00		0.1	0.0	20.9	1	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	20.9	0	0
		05:00		0.1	0.0	20.9	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	0.1	21.2	0	0
		00:30	0.0	0.1	0.1	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.1	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	0.93	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0
WS106 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.8	0.4	0.7	17.1	0	0
		00:15		0.4	0.7	16.8	0	0
		00:30		0.4	0.7	16.0	0	0
VOC peak (ppm)	not taken	01:00		0.4	0.7	15.4	0	0
VOC steady (ppm)	not taken	01:30		0.4	0.7	15.4	0	0
		02:00		0.4	0.7	15.3	0	0
Borehole Depth (mbgl)	1.95	02:30		0.4	0.7	15.3	0	0
		03:00		0.4	0.7	15.4	0	0
Water level (mbgl)	1.45	03:30		0.4	0.7	15.4	0	0
		04:00		0.4	0.7	15.4	0	0
Borehole Pressure (mb)	1017	04:30		0.4	0.7	15.4	0	0
		05:00		0.4	0.7	15.4	0	0
WS108 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.2	20.9	0	0
		00:15	0.0	0.1	0.2	20.9	0	0
		00:30	0.0	0.1	0.2	20.9	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.2	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.2	20.9	0	0
		02:00		0.2	0.1	21.0	0	0
Borehole Depth (mbgl)	2.9	02:30		0.2	0.1	21.0	0	0
		03:00		0.2	0.1	21.0	0	0
Water level (mbgl)	0.9	03:30		0.2	0.1	21.0	0	0
		04:00		0.2	0.1	21.1	0	0
Borehole Pressure (mb)	1017	04:30		0.2	0.1	21.1	0	0
		05:00		0.2	0.1	21.1	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.5	20.5	0	0
VOC peak (ppm) not taken		00:15	0.0	0.2	0.4	20.5	0	0
		00:30		0.2	0.4	20.5	0	0
VOC steady (ppm) not taken		01:00		0.2	0.4	20.5	0	0
		01:30		0.2	0.4	20.5	0	0
Borehole Depth (mbgl) 2.9		02:00		0.2	0.4	20.5	0	0
		02:30		0.2	0.4	20.5	0	0
Water level (mbgl) 1.05		03:00		0.2	0.4	20.5	0	0
		03:30		0.2	0.4	20.5	0	0
Borehole Pressure (mb) 1017		04:00		0.2	0.3	20.5	0	0
		04:30		0.2	0.3	20.5	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	21.1	0	0
VOC peak (ppm) not taken		00:15	0.0	0.1	0.0	21.0	0	0
		00:30		0.1	0.0	20.9	1	0
VOC steady (ppm) not taken		01:00		0.1	0.0	20.8	1	0
		01:30		0.1	0.0	20.8	1	0
Borehole Depth (mbgl) 1.25		02:00		0.1	0.0	20.9	1	0
		02:30		0.1	0.0	20.8	1	0
Water level (mbgl) Detected at bottom		03:00		0.1	0.0	20.8	0	0
		03:30		0.1	0.0	20.8	0	0
Borehole Pressure (mb) 1016		04:00		0.1	0.0	20.8	1	0
		04:30		0.1	0.0	20.8	1	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.8	0	0
VOC peak (ppm) not taken		00:15	0.0	0.1	0.0	20.6	0	0
		00:30	0.0	0.2	0.0	20.4	0	0
VOC steady (ppm) not taken		01:00		0.2	0.0	20.4	0	0
		01:30		0.2	0.0	20.4	0	0
Borehole Depth (mbgl) 2		02:00		0.2	0.0	20.4	0	0
		02:30		0.2	0.0	20.4	0	0
Water level (mbgl) 1.32		03:00		0.2	0.0	20.4	0	0
		03:30		0.2	0.0	20.4	0	0
Borehole Pressure (mb) 1016		04:00		0.2	0.0	20.4	0	0
		04:30		0.2	0.0	20.4	0	0
		05:00		0.2	0.0	20.4	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS115 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.1	0.1	0.0	21.3	0	0
		00:15	-0.1	0.1	0.0	21.3	0	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.3	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.3	0	0
		02:00		0.2	0.0	21.3	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	21.3	0	0
		03:00		0.2	0.0	21.3	0	0
Water level (mbgl)	0.67	03:30		0.2	0.0	21.3	0	0
		04:00		0.2	0.0	21.3	0	0
Borehole Pressure (mb)	1016	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
WS116 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.1	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	21.1	0	0
		02:00		0.1	0.0	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.1	0.0	21.1	0	0
		03:00		0.1	0.0	21.1	0	0
Water level (mbgl)	0.4	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.1	0	0
Borehole Pressure (mb)	1016	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
WS118 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.5	0.2	0.4	21.0	1	0
		00:15	0.0	0.2	0.4	21.0	0	0
		00:30	0.0	0.2	0.4	21.0	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.3	21.0	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.3	21.0	0	0
		02:00		0.2	0.3	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.2	0.2	21.1	0	0
		03:00		0.2	0.1	21.1	0	0
Water level (mbgl)	0.7	03:30		0.2	0.1	21.1	0	0
		04:00		0.2	0.1	21.2	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.1	21.2	0	0
		05:00		0.2	0.1	21.2	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1016					
BH101 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.8	1	0
		00:15	0.0	0.1	0.0	20.8	0	0
		00:30	0.0	0.1	0.0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.9	0	0
		02:00		0.1	0.0	20.9	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	1.3	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.1	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.0	21.2	0	0
		05:00		0.2	0.0	21.2	0	0
BH103 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.2	20.8	0	0
		00:15	0.0	0.2	0.2	20.8	0	0
		00:30		0.2	0.2	20.7	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.2	20.7	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.2	20.6	0	0
		02:00		0.2	0.2	20.6	0	0
Borehole Depth (mbgl)	2.2	02:30		0.2	0.2	20.5	0	0
		03:00		0.2	0.2	20.5	0	0
Water level (mbgl)	1.55	03:30		0.2	0.2	20.4	0	0
		04:00		0.2	0.2	20.4	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.2	20.3	0	0
		05:00		0.2	0.2	20.3	0	0

BH106 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.4	0.1	0.0	21.2	0	0
		00:15	3.4	0.1	0	21.2	0	0
		00:30		0.1	0	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	0	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.1	0	21.2	0	0
		02:00		0.1	0	21.2	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0	21.2	0	0
		03:00		0.1	0	21.2	0	0
Water level (mbgl)	16.6	03:30		0.1	0	21.2	0	0
		04:00		0.1	0	21.2	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0	21.2	0	0
		05:00		0.1	0	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1024					
WS102		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.00	0.2	0.7	20.6	0	0
		00:15	0.00	0.2	0.7	20.4	0	0
		00:30	0.0	0.2	0.6	20.2	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.5	20.0	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.5	20.9	0	0
		02:00		0.2	0.4	20.9	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.4	20.9	0	0
		03:00		0.2	0.4	20.9	0	0
Water level (mbgl)	1.6	03:30		0.2	0.4	20.9	0	0
		04:00		0.2	0.4	21.0	0	0
Borehole Pressure (mb)	1024	04:30		0.2	0.4	21.0	0	0
		05:00		0.2	0.4	21.0	0	0
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	13.7	0.1	0.1	20.5	0	0
		00:15		0.1	0.1	20.5	0	0
		00:30		0.1	0.0	20.5	0	0
VOC peak (ppm)	not taken	01:00		0.0	0.0	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.0	0.0	20.5	0	0
		02:00		0.1	0.0	20.5	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.0	20.5	0	0
		03:00		0.0	0.0	20.3	2	0
Water level (mbgl)	0.75	03:30		0.0	0.0	20.2	4	0
		04:00		0.0	0.0	20.1	6	0
Borehole Pressure (mb)	1024	04:30		0.0	0.0	20.0	7	0
		05:00		0.0	0.0	20.0	7	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1024					
WS105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.2	0	0
		00:15	0.0	0.2	0.1	21.2	0	0
		00:30	0.0	0.2	0.1	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.1	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.1	21.2	0	0
		02:00		0.2	0.1	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.2	0	0
		03:00		0.2	0.0	21.2	0	0
Water level (mbgl)	0.99	03:30		0.2	0.0	21.2	0	0
		04:00		0.2	0.0	21.2	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	21.2	0	0
		05:00		0.2	0.0	21.2	0	0
WS106 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.7	18.0	0	0
		00:15		0.2	0.7	14.6	0	0
		00:30		0.2	0.7	14.6	0	0
VOC peak (ppm)	not taken	01:00		0.3	0.8	14.6	0	0
VOC steady (ppm)	not taken	01:30		0.3	0.8	14.6	0	0
		02:00		0.3	0.8	14.6	0	0
Borehole Depth (mbgl)	1.9	02:30		0.3	0.8	14.6	0	0
		03:00		0.3	0.7	14.6	0	0
Water level (mbgl)	1.5	03:30		0.3	0.7	14.6	0	0
		04:00		0.3	0.7	14.6	0	0
Borehole Pressure (mb)	1017	04:30		0.3	0.7	14.5	0	0
		05:00		0.3	0.7	14.5	0	0
WS108 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	4.1	0.1	1.1	20.8	0	0
		00:15	0.0	0.1	2.0	20.4	0	0
		00:30	0.0	0.1	2.5	20.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	2.9	19.8	0	0
VOC steady (ppm)	not taken	01:30		0.1	2.9	19.8	0	0
		02:00		0.1	2.9	19.8	0	0
Borehole Depth (mbgl)	3	02:30		0.1	2.9	19.8	0	0
		03:00		0.1	2.9	19.8	0	0
Water level (mbgl)	1.07	03:30		0.1	2.9	19.8	0	0
		04:00		0.1	2.9	19.8	0	0
Borehole Pressure (mb)	1022	04:30		0.1	3.0	19.7	0	0
		05:00		0.1	3.0	19.7	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	20.7	0	0
VOC peak (ppm) not taken		00:15	0.0	0.2	0.1	20.7	0	0
		00:30		0.2	0.1	20.7	0	0
VOC steady (ppm) not taken		01:00		0.2	0.1	20.6	0	0
		01:30		0.2	0.1	20.6	0	0
Borehole Depth (mbgl) 2.9		02:00		0.2	0.1	20.6	0	0
		02:30		0.2	0.1	20.6	0	0
Water level (mbgl) 1.4		03:00		0.2	0.1	20.6	0	0
		03:30		0.2	0.1	20.6	0	0
Borehole Pressure (mb) 1022		04:00		0.2	0.1	20.6	0	0
		04:30		0.2	0.1	20.6	0	0
		05:00		0.2	0.1	20.6	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.0	20.9	0	0
VOC peak (ppm) not taken		00:15	0.0	0.2	0.0	20.9	0	0
		00:30		0.2	0.0	20.9	0	0
VOC steady (ppm) not taken		01:00		0.2	0.0	20.9	0	0
		01:30		0.2	0.0	20.9	0	0
Borehole Depth (mbgl) 1.2		02:00		0.2	0.0	20.9	0	0
		02:30		0.2	0.0	20.8	0	0
Water level (mbgl) Dry		03:00		0.2	0.0	20.8	0	0
		03:30		0.2	0.0	20.8	0	0
Borehole Pressure (mb) 1022		04:00		0.2	0.0	20.8	0	0
		04:30		0.2	0.0	20.8	0	0
		05:00		0.2	0.0	20.8	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.4	0	0
VOC peak (ppm) not taken		00:15	0.0	0.1	0.0	20.4	0	0
		00:30	0.0	0.1	0.0	20.4	0	0
VOC steady (ppm) not taken		01:00		0.2	0.0	20.4	0	0
		01:30		0.2	0.0	20.4	0	0
Borehole Depth (mbgl) 2		02:00		0.2	0.0	20.4	0	0
		02:30		0.2	0.0	20.4	0	0
Water level (mbgl) 1.6		03:00		0.2	0.0	20.4	0	0
		03:30		0.2	0.0	20.4	0	0
Borehole Pressure (mb) 1022		04:00		0.2	0.0	20.5	0	0
		04:30		0.2	0.0	20.5	0	0
		05:00		0.2	0.0	20.5	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
WS115 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	10.1	0.2	0.0	21.2	0	0
		00:15	0.0	0.2	0.0	21.2	0	0
		00:30	0.0	0.2	0.0	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.1	0	0
		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	20.5	0	0
		03:00		0.2	0.0	19.0	0	0
Water level (mbgl)	0.86	03:30		0.2	0.0	18.5	0	0
		04:00		0.2	0.0	17.3	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	16.8	0	0
		05:00		0.2	0.0	16.5	0	0
WS116 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.2	0.0	21.1	0	0
		00:15	0.0	0.2	0.0	21.1	0	0
		00:30	0.0	0.2	0.0	21.1	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.1	0	0
		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.2	0.0	21.0	0	0
		03:00		0.2	0.0	20.9	0	0
Water level (mbgl)	0.4	03:30		0.2	0.0	20.9	0	0
		04:00		0.2	0.0	20.8	0	0
Borehole Pressure (mb)	1023	04:30		0.2	0.0	20.8	1	0
		05:00		0.2	0.0	20.8	1	0
WS118 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.0	1.4	20.6	0	0
		00:15	0.0	0.0	1.4	20.6	0	0
		00:30	0.0	0.0	1.4	20.6	0	0
VOC peak (ppm)	not taken	01:00		0.0	1.2	20.6	0	0
VOC steady (ppm)	not taken	01:30		0.0	1.0	20.7	0	0
		02:00		0.0	1.0	20.7	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	1.0	20.7	0	0
		03:00		0.0	1.0	20.6	0	0
Water level (mbgl)	0.82	03:30		0.0	1.0	20.4	0	0
		04:00		0.0	1.1	20.2	0	0
Borehole Pressure (mb)	1024	04:30		0.0	1.2	19.8	0	0
		05:00		0.0	1.3	19.3	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
BH101		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
Hole ID		00:00	0.0	0.2	0.0	20.8	0	0
		00:15	0.0	0.2	0.0	20.8	0	0
		00:30	0.0	0.2	0.0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	20.9	0	0
		02:00		0.2	0.0	21.0	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.0	0	0
		03:00		0.2	0.0	21.1	0	0
Water level (mbgl)	1.2	03:30		0.2	0.0	21.1	0	0
		04:00		0.2	0.0	21.1	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	21.1	0	0
		05:00		0.2	0.0	21.1	0	0
BH103		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
Hole ID		00:00	0.0	0.2	0.9	16.3	0	0
		00:15	0.0	0.2	0.9	15.3	0	0
		00:30		0.2	0.9	15.3	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.9	15.3	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.9	15.2	0	0
		02:00		0.2	0.9	15.2	0	0
Borehole Depth (mbgl)	2.2	02:30		0.2	0.9	15.2	0	0
		03:00		0.2	0.9	15.2	0	0
Water level (mbgl)	1.55	03:30		0.2	0.9	15.1	0	0
		04:00		0.2	1.0	15.0	0	0
Borehole Pressure (mb)	1023	04:30		0.2	1.0	15.0	0	0
		05:00		0.2	1.0	14.9	0	0

BH106		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
Hole ID		00:00	3.6	0.1	0.0	20.8	0	0
		00:15	3.6	0.1	0	20.8	0	0
		00:30		0.1	0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.1	0	20.8	0	0
VOC steady (ppm)	not taken	01:30		0.1	0	20.8	0	0
		02:00		0.1	0	20.8	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0	20.8	0	0
		03:00		0.1	0	20.9	0	0
Water level (mbgl)	16.53	03:30		0.1	0	20.9	0	0
		04:00		0.1	0	20.9	0	0
Borehole Pressure (mb)	1024	04:30		0.1	0	20.9	0	0
		05:00		0.1	0	20.9	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1017					
WS102 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	0.00	0.0	2.0	20.2	0	0
		00:15	0.00	0.0	1.8	20.3	0	0
		00:30	0.0	0.0	1.6	20.4	0	0
VOC peak (ppm)	0.1	01:00		0.0	1.4	20.5	0	0
VOC steady (ppm)	0.1	01:30		0.0	1.2	20.5	0	0
		02:00		0.0	1.1	20.6	0	0
Borehole Depth (mbgl)	2	02:30		0.0	1.1	20.5	0	0
		03:00		0.0	1.2	20.5	0	0
Water level (mbgl)	1.8	03:30		0.0	1.1	20.7	0	0
		04:00		0.0	1.0	20.7	0	0
Borehole Pressure (mb)	1017	04:30		0.0	1.0	20.7	0	0
		05:00		0.0	1.0	20.8	0	0
WS103 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	0.0	0.1	0.0	19.9	14	0
		00:15		0.1	0.0	19.9	15	0
		00:30		0.1	0.0	19.9	15	0
VOC peak (ppm)	5.3	01:00		0.1	0.0	19.8	15	0
VOC steady (ppm)	5	01:30		0.1	0.0	19.8	15	0
		02:00		0.1	0.0	19.8	15	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.0	19.8	15	0
		03:00		0.1	0.0	19.8	15	0
Water level (mbgl)	1.6	03:30		0.1	0.0	19.8	15	0
		04:00		0.1	0.0	19.8	15	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	19.8	15	0
		05:00		0.1	0.0	19.8	15	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	4.6	19.3	0	0
		00:15	0.0	0.1	4.7	19.3	0	0
		00:30	0.0	0.1	4.7	19.1	0	0
VOC peak (ppm)	1.1	01:00		0.1	4.7	19.1	0	0
VOC steady (ppm)	0.7	01:30		0.1	4.7	19.1	0	0
		02:00		0.2	4.7	19.0	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	4.7	19.0	0	0
		03:00		0.2	4.7	19.0	0	0
Water level (mbgl)	1.3	03:30		0.2	4.7	19.0	0	0
		04:00		0.2	4.7	19.0	0	0
Borehole Pressure (mb)	1017	04:30		0.2	4.8	19.0	0	0
		05:00		0.2	4.8	19.0	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.7	14.9	0	0
		00:15		0.1	0.7	13.7	0	0
		00:30		0.1	0.7	13.7	0	0
VOC peak (ppm)	0.8	01:00		0.1	0.7	13.7	0	0
VOC steady (ppm)	0.7	01:30		0.1	0.7	13.7	0	0
		02:00		0.1	0.7	13.7	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.7	13.7	0	0
		03:00		0.1	0.7	13.7	0	0
Water level (mbgl)	1.6	03:30		0.1	0.7	13.7	0	0
		04:00		0.1	0.7	13.6	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.7	13.6	0	0
		05:00		0.1	0.7	13.6	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.0	0.1	0.1	21.0	0	0
		00:15	0.0	0.1	0.5	21.0	0	0
		00:30	0.0	0.1	0.7	21.0	0	0
VOC peak (ppm)	0.8	01:00		0.1	1.0	21.0	0	0
VOC steady (ppm)	0.6	01:30		0.1	1.1	20.9	0	0
		02:00		0.1	1.1	20.9	0	0
Borehole Depth (mbgl)	3	02:30		0.1	1.2	20.9	0	0
		03:00		0.1	1.3	20.8	0	0
Water level (mbgl)	1.15	03:30		0.1	1.4	20.6	0	0
		04:00		0.1	1.4	20.4	0	0
Borehole Pressure (mb)	1017	04:30		0.1	1.5	20.0	0	0
		05:00		0.1	1.6	19.5	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.2	21.4	0	0
		00:15	0.0	0.1	0.2	21.4	0	0
		00:30		0.1	0.2	21.2	0	0
VOC peak (ppm)	0.3	01:00		0.1	0.3	21.1	0	0
VOC steady (ppm)	0.2	01:30		0.1	0.3	21.1	0	0
		02:00		0.1	0.3	21.1	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.3	21.0	0	0
		03:00		0.1	0.3	21.0	0	0
Water level (mbgl)	1.5	03:30		0.1	0.3	21.0	0	0
		04:00		0.1	0.3	21.0	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.3	21.0	0	0
		05:00		0.1	0.3	21.0	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.1	0	0
		00:30		0.1	0.0	21.1	0	0
VOC peak (ppm)	0.6	01:00		0.1	0.0	21.1	0	0
VOC steady (ppm)	0.5	01:30		0.1	0.0	21.1	0	0
		02:00		0.1	0.0	21.1	0	0
Borehole Depth (mbgl)	1.2	02:30		0.1	0.0	21.1	0	0
		03:00		0.1	0.0	21.1	0	0
Water level (mbgl)	Dry	03:30		0.1	0.0	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	0.0	20.5	0	0
		00:30	0.0	0.1	0.0	20.5	0	0
VOC peak (ppm)	2.4	01:00		0.1	0.0	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.5	0	0
		02:00		0.1	0.0	20.6	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.0	20.6	0	0
		03:00		0.1	0.0	20.6	0	0
Water level (mbgl)	1.8	03:30		0.1	0.0	20.6	0	0
		04:00		0.1	0.0	20.6	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	20.6	0	0
		05:00		0.1	0.0	20.6	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.5	3	0
VOC peak (ppm) 1.2		00:15	0.0	0.1	0.0	19.5	0	0
		00:30	0.0	0.1	0.0	19.5	0	0
VOC steady (ppm) 1		01:00		0.1	0.0	19.4	0	0
		01:30		0.1	0.0	19.4	0	0
Borehole Depth (mbgl) 2		02:00		0.1	0.0	19.2	0	0
		02:30		0.1	0.0	19.1	0	0
Water level (mbgl) 1.2		03:00		0.1	0.0	19.0	0	0
		03:30		0.1	0.0	18.5	0	0
Borehole Pressure (mb) 1017		04:00		0.1	0.0	18.6	0	0
		04:30		0.1	0.0	18.3	0	0
		05:00		0.1	0.0	17.9	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.3	1	0
VOC peak (ppm) 3.2		00:15	0.0	0.1	0.0	21.3	1	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC steady (ppm) 3		01:00		0.1	0.0	21.2	0	0
		01:30		0.1	0.0	21.2	1	0
Borehole Depth (mbgl) 1.5		02:00		0.1	0.0	21.3	1	0
		02:30		0.1	0.0	21.3	1	0
Water level (mbgl) 0.7		03:00		0.1	0.0	21.3	1	0
		03:30		0.1	0.0	21.3	1	0
Borehole Pressure (mb) 1016		04:00		0.1	0.0	21.4	1	0
		04:30		0.1	0.0	21.4	1	0
		05:00		0.1	0.0	21.4	1	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	3.5	17.6	0	0
VOC peak (ppm) 0.4		00:15	0.0	0.1	3.5	13.4	0	0
		00:30	0.0	0.1	3.5	20.6	0	0
VOC steady (ppm) 0.2		01:00		0.1	3.5	20.6	0	0
		01:30		0.1	3.5	13.2	0	0
Borehole Depth (mbgl) 1.6		02:00		0.1	3.5	13.2	0	0
		02:30		0.1	3.5	13.2	0	0
Water level (mbgl) 0.96		03:00		0.1	3.6	13.2	0	0
		03:30		0.1	3.6	13.2	0	0
Borehole Pressure (mb) 1016		04:00		0.1	3.6	13.2	0	0
		04:30		0.1	3.6	13.2	0	0
		05:00		0.1	3.6	13.2	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.9	0	0
		00:15	0.0	0.1	0.0	19.8	0	0
		00:30	0.0	0.1	0.0	19.7	0	0
VOC peak (ppm)	5.4	01:00		0.1	0.0	19.6	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.2	0	0
		02:00		0.1	0.0	20.9	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	1.2	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.3	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.9	17.7	0	0
		00:15	0.0	0.2	0.9	17.7	0	0
		00:30		0.2	0.9	17.6	0	0
VOC peak (ppm)	3.2	01:00		0.2	0.9	17.6	0	0
VOC steady (ppm)	3	01:30		0.2	0.9	17.7	0	0
		02:00		0.2	0.9	17.8	0	0
Borehole Depth (mbgl)	2.25	02:30		0.2	0.9	17.9	0	0
		03:00		0.2	0.8	18.0	0	0
Water level (mbgl)	1.5	03:30		0.2	0.8	18.1	0	0
		04:00		0.2	0.7	18.3	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.7	18.5	0	0
		05:00		0.2	0.6	18.8	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.8	0.1	7.8	16.2	31	0
		00:15	2.8	0.1	7.9	16.2	31	0
		00:30		0.1	7.9	13	31	0
VOC peak (ppm)	not taken	01:00		0.1	8	10.6	32	0
VOC steady (ppm)	not taken	01:30		0.1	8	10.6	32	0
		02:00		0.1	8.1	10.4	32	0
Borehole Depth (mbgl)	20.3	02:30		0.1	8.1	10.3	32	0
		03:00		0.1	8.1	10.3	32	0
Water level (mbgl)	16.65	03:30		0.1	8.1	10.3	32	0
		04:00		0.1	8.1	10.2	32	0
Borehole Pressure (mb)	1016	04:30		0.1	8.1	10.2	32	0
		05:00		0.1	8.1	10.1	32	0

Continuous Gas Monitoring Record								
Date	16/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	15					
Site	Novartis	Ambient Pressure	1025					
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.60	0.0	0.7	20.2	-10	0
Hole ID		00:15	0.60	0.0	0.7	20.2	-10	0
VOC peak (ppm)	not taken	00:30		0.0	0.8	20.1	-10	0
		01:00		0.0	0.8	20.1	-10	0
VOC steady (ppm)	not taken	01:30		0.0	0.8	20.1	-10	0
		02:00		0.0	0.8	20.1	-10	0
Borehole Depth (mbgl)	2.9	02:30		0.0	0.8	20.1	-10	0
		03:00		0.0	0.8	20.1	-10	0
Water level (mbgl)	1.8	03:30		0.0	0.8	20.1	-10	0
		04:00		0.0	0.8	20.1	-10	0
Borehole Pressure (mb)	1025	04:30		0.0	0.8	20.1	-10	0
		05:00		0.0	0.8	20.1	-10	0
WS106		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.0	0.7	16.5	0	0
Hole ID		00:15		0.0	0.7	16.5	0	0
VOC peak (ppm)	not taken	00:30		0.0	0.6	16.6	0	0
		01:00		0.0	0.6	16.6	0	0
VOC steady (ppm)	not taken	01:30		0.0	0.6	16.6	0	0
		02:00		0.0	0.6	16.6	0	0
Borehole Depth (mbgl)	2	02:30		0.0	0.6	16.6	0	0
		03:00		0.0	0.6	16.6	0	0
Water level (mbgl)	1.6	03:30		0.0	0.6	16.6	0	0
		04:00		0.0	0.6	16.6	0	0
Borehole Pressure (mb)	1025	04:30		0.0	0.6	16.6	0	0
		05:00		0.0	0.6	16.6	0	0

Continuous Gas Monitoring Record								
Date	16/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	15					
Site	Novartis	Ambient Pressure	1025					
BH106 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	52.0	0.0	0.0	20.5	-10	0
		00:15	7.2	0.0	0	20.5	0	0
		00:30	7.2	0.0	0	20.5	-10	0
VOC peak (ppm)	not taken	01:00	7.2	0.0	0	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.0	0	20.5	-10	0
		02:00		0.0	0	20.5	-10	0
Borehole Depth (mbgl)	20.3	02:30		0.0	0	20.5	-10	0
		03:00		0.0	0	20.5	-10	0
Water level (mbgl)	16.8	03:30		0.0	0	20.5	0	0
		04:00		0.0	0	20.5	-10	0
Borehole Pressure (mb)	1025	04:30		0.0	0	20.5	-10	0
		05:00		0.0	0	20.5	-10	0

Continuous Gas Monitoring Record							
Date	12/05/2021	Engineer	OA				
Project No	LP2575	Temp °C	20				
Site	Novartis	Ambient Pressure	1005				
BH106		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)
Hole ID		00:00	0.00	0.0	13.0	7.8	0
		00:15	0.00	0.0	14.0	6.0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	15.0	5.0	1
		01:00		0.0	16.6	5.6	1
VOC steady (ppm)	0.1	01:30		0.0	18.0	4.0	1
		02:00		0.0	19.1	3.2	1
Borehole Depth (mbgl)	20.3	02:30		0.0	20.0	2.0	2
		03:00		0.0	20.5	1.5	2
Water level (mbgl)	16.6	03:30		0.0	20.7	1.4	2
		04:00		0.0	20.8	1.3	1
Borehole Pressure (mb)	1005	04:30		0.0	20.9	1.0	1
		05:00		0.0	21.0	0.9	1
BH105		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)
Hole ID		00:00	0.0	0.0	0.3	19.9	0
		01:00		0.0	0.5	19.9	0
VOC peak (ppm)	0	02:00		0.0	0.8	19.9	0
		03:00		0.0	1.1	19.8	0
VOC steady (ppm)	0	04:00		0.0	2.3	19.8	0
		05:00		0.1	2.9	19.8	0
Borehole Depth (mbgl)	16	06:00		0.1	3.8	19.8	0
		07:00		0.1	4.8	19.8	0
Water level (mbgl)	12.35	08:00		0.1	5.0	19.8	0
		09:00		0.1	5.5	19.8	0
Borehole Pressure (mb)	1005	10:00		0.1	5.8	19.8	0
		14:00		0.1	6.1	19.8	1

Continuous Gas Monitoring Record								
Date	12/05/2021	Engineer	OA					
Project No	LP2575	Temp °C	20					
Site	Novartis	Ambient Pressure	1004					
BH104 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	3.5	8.7	0	0
		00:15	0.0	0.1	3.5	8.7	0	0
		00:30	0.0	0.1	3.6	8.6	0	0
VOC peak (ppm)	0	01:00		0.1	3.6	8.3	0	0
VOC steady (ppm)	0	01:30		0.1	3.6	8.1	0	0
		02:00		0.1	3.6	8.0	0	0
Borehole Depth (mbgl)	15.1	02:30		0.1	3.7	7.6	0	0
		03:00		0.1	3.7	7.2	0	0
Water level (mbgl)	11.1	04:00		0.1	3.7	7.1	0	0
		05:00		0.1	3.5	8.0	0	0
Borehole Pressure (mb)	1004	06:00		0.1	3.3	9.4	0	0
		07:00		0.1	3.1	10.1	0	0
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.0	0	0
		00:15		0.1	0.0	21.0	0	0
		00:30		0.1	0.0	21.0	0	0
VOC peak (ppm)	0	01:00		0.1	0.0	21.0	0	0
VOC steady (ppm)	0	01:30		0.1	0.0	21.0	0	0
		02:00		0.1	0.0	21.0	0	0
Borehole Depth (mbgl)	14	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	9	03:30		0.1	0.0	21.0	0	0
		04:00		0.1	0.0	21.0	0	0
Borehole Pressure (mb)	1004	04:30		0.1	0.0	21.0	0	0
		05:00		0.1	0.0	21.0	0	0
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.1	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.1	0	0
		01:00	0.0	0.1	0.0	21.1	0	0
VOC peak (ppm)	0.2	02:00		0.1	0.1	20.9	0	0
VOC steady (ppm)	0.1	03:00		0.1	0.1	20.8	0	0
		04:00		0.1	0.1	20.4	0	0
Borehole Depth (mbgl)	20	05:00		0.1	0.2	19.7	0	0
		06:00		0.1	0.2	19.2	0	0
Water level (mbgl)	14	07:00		0.1	0.2	19.1	0	0
		08:00		0.1	0.3	19.0	0	0
Borehole Pressure (mb)	1003	09:00		0.1	0.3	18.9	0	0
		10:00		0.2	0.3	18.8	0	0

Continuous Gas Monitoring Record								
Date	12/05/2021	Engineer	OA					
Project No	LP2575	Temp °C	20					
Site	Novartis	Ambient Pressure	1003					
BH103D Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.4	20.4	2	0
		00:15	0.0	0.1	0.4	20.4	2	0
		00:30		0.1	0.3	20.3	2	0
VOC peak (ppm)	0.6	01:00		0.1	0.3	20.3	2	0
VOC steady (ppm)	0.5	01:30		0.1	0.3	20.6	2	0
		02:00		0.1	0.2	20.8	1	0
Borehole Depth (mbgl)	20.2	02:30		0.1	0.2	20.9	1	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	15.4	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1003	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0

Continuous Gas Monitoring Record								
Date	25.05.21	Engineer	MW					
Project No	LP2575	Temp °C	12					
Site	Novartis	Ambient Pressure	1011					
BH101D		Time (m)	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		Hole ID						
		0.00	0.0	0.1	0.0	20.7	0	0
		0.30	0.0	0.1	0.0	18.8	6	0
		1.00		0.1	0.0	19.0	4	0
VOC peak (ppm)	N/A	2.00		0.1	0.0	20.0	2	0
VOC steady (ppm)	N/A	3.00		0.1	0.0	20.4	1	0
		4.00		0.1	0.0	20.5	0	0
Borehole Depth (mbgl)	14.35	5.00		0.1	0.0	20.6	0	0
		6.00						
Water level (mbgl)	9.21	7.00						
		8.00						
Borehole Pressure (mb)	0.38	9.00						
		10.00						
BH102		Time (m)	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		Hole ID						
		0.00	-4.6	0.1	0.1	21.2	0	0
		0.30	-4.1	0.2	0.1	10.2	0	0
		1.00	-3.3	0.2	0.1	8.8	1	0
VOC peak (ppm)	N/A	2.00	-2.2	0.2	0.1	7.7	1	0
VOC steady (ppm)	N/A	3.00	-0.8	0.2	0.1	7.1	1	0
		4.00	-0.4	0.2	0.1	6.9	1	0
Borehole Depth (mbgl)	20.3	5.00		0.2	0.1	6.7	0	0
		6.00		0.2	0.1	6.5	1	0
Water level (mbgl)	14.4	7.00		0.2	0.2	6.4	1	0
		8.00		0.2	0.2	6.3	1	0
Borehole Pressure (mb)	0.38	9.00		0.2	0.2	6.2	1	0
		10.00		0.2	0.2	6.2	0	0

Continuous Gas Monitoring Record

Date	25.05.21	Engineer	MW
Project No	LP2575	Temp °C	12
Site	Novartis	Ambient Pressure	1012



BH103D Hole ID		Time (m)	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		0.00	0.0	0.1	0.4	20.9	0	0
		0.30	0.0	0.1	0.3	20.3	0	0
		1.00		0.1	0.2	20.5	0	0
VOC peak (ppm)	N/A	2.00		0.1	0.1	20.5	0	0
VOC steady (ppm)	N/A	3.00		0.1	0.1	21.1	0	0
		4.00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	20.5	5.00		0.1	0.0	21.3	0	0
		6.00		0.1	0.0	21.3	0	0
Water level (mbgl)	14.78	7.00		0.1	0.0	21.3	0	0
		8.00		0.1	0.0	21.4	0	0
Borehole Pressure (mb)	0	9.00		0.1	0.0	21.4	0	0
		10.00		0.1	0.0	21.4	0	0

BH104 Hole ID		Time (m)	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		0.00	0.0	0.1	3.5	19.4	0	0
		0.30	0.0	0.1	3.6	6.9	0	0
		1.00		0.1	3.6	2.5	0	0
VOC peak (ppm)	N/A	2.00		0.2	3.6	1.9	0	0
VOC steady (ppm)	N/A	3.00		0.2	3.5	1.8	0	0
		4.00		0.2	3.4	1.9	0	0
Borehole Depth (mbgl)	15.5	5.00		0.2	3.3	2.3	0	0
		6.00		0.2	3.3	2.4	0	0
Water level (mbgl)	11.26	7.00		0.2	3.3	2.6	0	0
		8.00		0.2	3.2	2.9	0	0
Borehole Pressure (mb)	0.38	9.00		0.2	3.1	3.3	0	0
		10.00		0.2	3.1	3.5	0	0

BH105 Hole ID		Time (m)	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		0.00	-4.0	0.1	0.1	21.1	0	0
		0.30	-3.5	0.1	0.1	12.8	0	0
		1.00	-3.0	0.1	0.1	5.2	0	0
VOC peak (ppm)	N/A	2.00	-2.4	0.1	0.1	3.8	0	0
VOC steady (ppm)	N/A	3.00		0.1	0.1	3.0	0	0
		4.00		0.1	0.1	2.4	0	0
Borehole Depth (mbgl)	16	5.00		0.1	0.1	2.1	0	0
		6.00		0.1	0.1	2.0	0	0
Water level (mbgl)	12.8	7.00		0.1	0.1	1.9	0	0
		8.00		0.1	0.1	1.9	0	0
Borehole Pressure (mb)	0.38	9.00		0.1	0.0	1.9	0	0
		10.00		0.1	0.0	1.9	0	0

Continuous Gas Monitoring Record								
Date	18.06.21	Engineer	OA					
Project No	LP2441	Temp °C	17					
Site	Novartis	Ambient Pressure	1006					
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.90	0.2	0.0	17.1	4	0
		00:15	0.00	0.2	0.0	17.0	4	0
		00:30	0.0	0.2	0.0	16.9	5	0
VOC peak (ppm)	0.9	01:00		0.2	0.0	16.9	6	0
VOC steady (ppm)	0	01:30		0.2	0.0	16.9	6	0
		02:00		0.2	0.0	16.9	6	0
		02:30		0.2	0.0	16.8	6	0
Borehole Depth (mbgl)	2.85	03:00		0.2	0.0	16.8	6	0
		03:30		0.2	0.0	16.6	7	0
Water level (mbgl)	0.35	04:00		0.2	0.0	16.4	7	0
		04:30		0.2	0.0	16.0	9	0
Borehole Pressure (mb)	1006	05:00		0.2	0.0	14.4	11	0
BH101S		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.0	0.2	0.0	20.6	1	0
		00:15		0.2	0.0	20.6	1	0
		00:30		0.2	0.0	20.6	1	0
VOC peak (ppm)	2	01:00		0.2	0.0	20.6	1	0
VOC steady (ppm)	0.7	01:30		0.2	0.0	20.8	0	0
		02:00		0.2	0.0	20.9	0	0
		02:30		0.2	0.0	20.9	0	0
Borehole Depth (mbgl)	2	03:00		0.2	0.0	21.0	0	0
		03:30		0.2	0.0	21.0	0	0
Water level (mbgl)	1.2	04:00		0.2	0.0	21.1	0	0
		04:30		0.2	0.0	21.1	0	0
Borehole Pressure (mb)	1006	05:00		0.2	0.0	21.1	0	0

Continuous Gas Monitoring Record								
Date	18.06.21	Engineer	OA					
Project No	LP2441	Temp °C	17					
Site	Novartis	Ambient Pressure	1006					
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.00	0.2	0.0	17.1	5	0
VOC peak (ppm) 2.7		00:15	0.00	0.2	0.0	17.5	5	0
		00:30	0.0	0.2	0.0	18.0	6	0
VOC steady (ppm) 2.5		01:00		0.2	0.0	18.5	7	0
		01:30		0.2	0.0	18.8	6	0
Borehole Depth (mbgl) 14		02:00		0.2	0.0	19.2	4	0
		02:30		0.2	0.0	19.5	3	0
Water level (mbgl) 8.8		03:00		0.2	0.0	19.9	2	0
		03:30		0.2	0.0	20.0	2	0
Borehole Pressure (mb) 1006		04:00		0.2	0.0	20.2	1	0
		04:30		0.2	0.0	20.3	1	0
		05:00		0.2	0.0	20.4	1	0
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.3	1.3	10.1	1	0
VOC peak (ppm) 13.2		00:15		0.3	1.3	8.0	1	0
		00:30		0.3	1.3	6.5	1	0
VOC steady (ppm) 9		01:00		0.3	1.3	5.2	1	0
		01:30		0.3	1.3	5.1	1	0
Borehole Depth (mbgl) 20		02:00		0.3	1.3	5.1	1	0
		02:30		0.3	1.3	5.0	1	0
Water level (mbgl) 13.8		03:00		0.3	1.3	4.9	1	0
		03:30		0.3	1.3	4.8	1	0
Borehole Pressure (mb) 1006		04:00		0.3	1.3	4.8	1	0
		04:30		0.3	1.3	4.7	1	0
		05:00		0.3	1.4	4.6	1	0
BH103D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.6	19.2	1	0
VOC peak (ppm) 8.6		00:15	0.0	0.1	0.6	19.3	1	0
		00:30	0.0	0.1	0.6	19.3	1	0
VOC steady (ppm) 7		01:00		0.2	0.5	19.4	1	0
		01:30		0.2	0.3	20.0	1	0
Borehole Depth (mbgl) 20		02:00		0.2	0.2	20.5	1	0
		02:30		0.2	0.1	20.9	1	0
Water level (mbgl) 14.35		03:00		0.2	0.1	20.9	1	0
		03:30		0.2	0.1	20.9	0	0
Borehole Pressure (mb) 1006		04:00		0.2	0.1	20.9	0	0
		04:30		0.2	0.0	21.0	0	0
		05:00		0.2	0.0	21.0	0	0

Continuous Gas Monitoring Record								
Date	18.06.21	Engineer	OA					
Project No	LP2441	Temp °C	17					
Site	Novartis	Ambient Pressure	1006					
BH104 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	1.50	0.4	4.2	2.0	0	0
		00:15	1.75	0.4	4.2	1.6	0	0
		00:30	2.0	0.4	4.2	1.3	0	0
VOC peak (ppm)	0.5	01:00	1.75	0.4	4.2	1.0	1	0
VOC steady (ppm)	0.3	01:30	1.5	0.4	4.2	1.0	1	0
		02:00		0.4	4.2	0.9	1	0
Borehole Depth (mbgl)	15.1	02:30		0.4	4.2	0.8	0	0
		03:00		0.4	4.3	0.7	0	0
Water level (mbgl)	11.35	03:30		0.4	4.3	0.7	0	0
		04:00		0.4	4.3	0.6	0	0
Borehole Pressure (mb)	1006	05:00		0.4	4.3	0.4	0	0
		06:00		0.4	4.3	0.3	0	0
BH105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	1.5	0.4	0.0	1.4	2	0
		00:15		0.4	0.0	1.1	1	0
		00:30		0.4	0.0	0.9	1	0
VOC peak (ppm)	4.2	01:00	1.2	0.4	0.0	0.7	1	0
VOC steady (ppm)	3.7	01:30		0.4	0.0	0.6	1	0
		02:00	0.9	0.4	0.0	0.5	1	0
Borehole Depth (mbgl)	16	02:30		0.4	0.0	0.5	1	0
		03:00		0.4	0.0	0.4	2	0
Water level (mbgl)	12.35	04:00		0.4	0.0	0.4	2	0
		05:00		0.4	0.0	0.3	2	0
Borehole Pressure (mb)	1006	06:00		0.4	0.0	0.3	2	0
		07:00		0.4	0.0	0.3	1	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
WS103		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	1.50	0.2	0.0	21.1	0	0
		00:15	1.00	0.2	0.0	21.2	0	0
		00:30	0.8	0.2	0.0	21.2	0	0
VOC peak (ppm)	0	01:00	0.6	0.2	0.0	21.2	0	0
		01:30		0.2	0.0	21.2	0	0
VOC steady (ppm)	0	02:00		0.2	0.0	21.2	0	0
		02:30		0.2	0.0	21.2	0	0
Borehole Depth (mbgl)	2.8	03:00		0.3	0.0	21.2	0	0
		03:30		0.3	0.0	21.2	0	0
Water level (mbgl)	0.4	04:00		0.3	0.0	21.2	0	0
		04:30		0.3	0.0	21.2	0	0
Borehole Pressure (mb)	1015	05:00		0.3	0.0	21.2	0	0
BH101S		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
Hole ID		00:00	0.0	0.3	0.0	20.8	1	0
		00:15		0.3	0.0	20.8	1	0
		00:30		0.3	0.0	20.8	1	0
VOC peak (ppm)	1.3	01:00		0.3	0.0	20.8	1	0
		01:30		0.3	0.0	20.8	0	0
VOC steady (ppm)	0.8	02:00		0.3	0.0	20.9	0	0
		02:30		0.3	0.0	20.9	0	0
Borehole Depth (mbgl)	2	03:00		0.3	0.0	20.9	0	0
		03:30		0.3	0.0	20.9	0	0
Water level (mbgl)	1.25	04:00		0.3	0.0	20.9	0	0
		04:30		0.3	0.0	20.9	0	0
Borehole Pressure (mb)	1015	05:00		0.3	0.0	20.9	0	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.00	0.2	0.0	17.8	17	0
		00:15	0.00	0.2	0.0	18.2	17	0
		00:30	0.0	0.2	0.0	18.7	16	0
VOC peak (ppm)	2.7	01:00		0.2	0.0	19.0	16	0
VOC steady (ppm)	2.5	01:30		0.2	0.0	19.5	10	0
		02:00		0.2	0.0	20.2	5	0
Borehole Depth (mbgl)	14	02:30		0.2	0.0	20.3	4	0
		03:00		0.2	0.0	20.5	3	0
Water level (mbgl)	9	03:30		0.2	0.0	20.5	3	0
		04:00		0.2	0.0	20.6	3	0
Borehole Pressure (mb)	1015	04:30		0.2	0.0	20.6	2	0
		05:00		0.2	0.0	20.7	2	0
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	5.0	0.4	0.4	6.4	1	0
		00:15	4.6	0.4	0.4	6.4	1	0
		00:30	4.3	0.4	0.4	6.4	1	0
VOC peak (ppm)	9.3	01:00	4.0	0.4	0.4	6.4	1	0
VOC steady (ppm)	7	01:30		0.4	0.4	6.2	1	0
		02:00		0.4	0.4	6.0	2	0
Borehole Depth (mbgl)	19.8	02:30		0.4	0.4	5.8	2	0
		03:00		0.4	0.4	5.7	1	0
Water level (mbgl)	14.1	03:30		0.4	0.4	5.6	1	0
		04:00		0.4	0.4	5.6	1	0
Borehole Pressure (mb)	1015	04:30		0.4	0.4	5.5	1	0
		05:00		0.4	0.4	5.5	1	0
BH103D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.4	19.5	1	0
		00:15	0.0	0.2	0.4	19.5	1	0
		00:30	0.0	0.2	0.4	19.5	1	0
VOC peak (ppm)	0.2	01:00		0.3	0.4	19.5	1	0
VOC steady (ppm)	0	01:30		0.2	0.3	20.0	1	0
		02:00		0.2	0.1	20.3	1	0
Borehole Depth (mbgl)	20	02:30		0.2	0.1	20.4	1	0
		03:00		0.2	0.1	20.5	1	0
Water level (mbgl)	14.4	03:30		0.2	0.1	20.5	0	0
		04:00		0.2	0.0	20.5	0	0
Borehole Pressure (mb)	1015	04:30		0.2	0.0	20.5	0	0
		05:00		0.2	0.0	20.6	0	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
BH104 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.20	0.4	3.6	3.1	1	0
		00:15	0.20	0.4	3.6	2.8	1	0
		00:30		0.4	3.6	2.6	1	0
VOC peak (ppm)	1.1	01:00		0.4	3.7	2.4	1	0
VOC steady (ppm)	1	01:30		0.4	3.7	2.2	1	0
		02:00		0.4	3.7	2.1	1	0
Borehole Depth (mbgl)	15	02:30		0.4	3.7	2.0	1	0
		03:00		0.4	3.8	1.9	1	0
Water level (mbgl)	11.1	03:30		0.4	3.8	1.8	1	0
		04:00		0.4	3.8	1.7	1	0
Borehole Pressure (mb)	1015	04:30		0.4	3.8	1.6	1	0
		05:00		0.4	3.9	1.5	1	0
BH105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.5	0.4	0.0	4.2	2	0
		00:15	3.0	0.4	0.0	3.6	2	0
		00:30	2.8	0.4	0.0	3.3	2	0
VOC peak (ppm)	4.2	01:00	2.4	0.4	0.0	2.9	2	0
VOC steady (ppm)	3.2	01:30		0.4	0.0	2.2	2	0
		02:00		0.4	0.0	1.6	2	0
Borehole Depth (mbgl)	16	02:30		0.4	0.0	1.5	2	0
		03:00		0.4	0.0	1.4	2	0
Water level (mbgl)	12.45	03:30		0.4	0.0	1.4	2	0
		04:00		0.4	0.0	1.4	2	0
Borehole Pressure (mb)	1015	04:30		0.4	0.0	1.4	2	0
		05:00		0.4	0.0	1.3	2	0

APPENDIX J – Gas Screening Values and Maximum Value Test

**Gas Screening Values and
Maximum Value Test**

Monitoring Visit Date / Location Ref.	Target											
	(m)	CO ₂	CO ₂ GSV	CH ₄	CH ₄ GSV	CO	O ₂	VOC peak	Steady State Flow rate	Atmospheric Pressure	Was RZ flooded?	
		(%)		(%)		(%)	(%)	(ppm)	(l/hr)	(mB)		
WS102	1.0-2.0											
08/03/2021		1.1	0.0011	0.1	0.0001	2	19.7	0.4	0.1	1025	Partially	
15/03/2021		0.2	0.00006	0.2	0.00006	0	20.8	n.m.	0.03	1017	Partially	
22/03/2021		0.7	0.0007	0.2	0.0002	0	20.2	n.m.	0.1	1024	Partially	
06/04/2021		2	0.002	0.1	0.0001	0	20.2	0.1	0.1	1017	No	
Max Test		2	0.002	0.2	0.0002				0.1			
WS103	1.0-2.0											
06/04/2021		0	0	0.1	0.0001	15	19.8	5.3	0.1	1017	Partially	
16/04/2021		0.8	0.0048	0	0	-10	20.1	n.m.	0.6	1025	No	
Max Test		0.8	0.0048	0.1	0.0006				0.6			
WS105	1.0-1.9	Response zone flooded on all occasions.										
WS106	1.0-2.0											
08/03/2021		1.7	0.0017	0.4	0.0004	0	15.3	0	0.1	1022	Partially	
15/03/2021		0.7	0.0266	0.4	0.0152	0	15.3	n.m.	3.8	1017	Partially	
22/03/2021		0.8	0.0008	0.3	0.0003	0	14.5	n.m.	0.1	1017	Partially	
06/04/2021		0.7	0.0007	0.1	0.0001	0	13.6	0.8	0.1	1017	Partially	
16/04/2021		0.7	0.0007	0	0	0	16.5	n.m.	0.1	1025	Partially	
Max test		1.7	0.0646	0.4	0.0152				3.8			
WS108		1.0-3.0		0		0						
06/04/2021	1.6		0.0016	0.1	0.0001	0	19.5	0.8	0.1	1017	Partially	
WS109	1.0-3.0		0		0							
22/03/2021		0.1	0.0001	0.2	0.0002	0	20.6	n.m.	0.1	1022	Partially	
WS111	0.5-1.5		0		0							
22/02/2021		0.1	-0.0001	0.1	-0.0001	0	20.3	0.6	-0.1	1013	Partially	
08/03/2021		0.1	0.0001	0.1	0.0001	0	20.7	0.3	0.1	1021	No	
15/03/2021		0	0	0.1	0.0001	1	20.8	n.m.	0.1	1016	No	
22/03/2021		0	0	0.2	0.0002	0	20.8	n.m.	0.1	1022	No	
06/04/2021		0	0	0.1	0.0001	0	21.1	0.6	0.1	1017	No	
Max Test		0.1	0.0001	0.2	0.0002				0.1			
WS113		0.9-1.9		0		0						
08/03/2021	0		0	0.1	0.0001	0	20.7	2.5	0.1	1021	Partially	
15/03/2021	0		0	0.2	0.0002	0	20.4	n.m.	0.1	1016	Partially	
22/03/2021	0		0	0.2	0.0002	0	20.4	n.m.	0.1	1022	Partially	
06/04/2021	0.1		0.0001	0.1	0.0001	0	20.5	2.4	0.1	1022	No	
Max Test	0.1		0.0001	0.1	0.0001				0.1			
WS115	1.0-2.0			0		0						
08/03/2021		0.1	-0.0001	0	0	0	21.3	0.2	-0.1	1020	Partially	
WS116	0.5-1.5	Response zone flooded on all occasions.										
WS118	0.5-1.5	Response zone flooded on all occasions.										
BH101S	1.0-2.0		0		0							
22/02/2021		0.1	0.0001	0.2	0.0002	0	21	0.4	0.1	1013	Partially	
08/03/2021		0.1	0.0001	0.1	0.0001	0	21.2	1.4	0.1	1021	Partially	
15/03/2021		0	0	0.2	0.0002	1	20.8	n.m.	0.1	1016	Partially	
22/03/2021		0	0	0.2	0.0002	0	20.8	n.m.	0.1	1022	Partially	
06/04/2021		0	0	0.1	0.0001	0	19.7	5.4	0.1	1022	Partially	
18/06/2021		0	0	0.2	0.0002	1	20.9	2	0.1	1006	Partially	
24/06/2021		0	0	0.3	0.0003	1	20.8	1.3 (0.8)	0.1	1015	Partially	
Max Test		0.1	0.0001	0.3	0.0003				0.1			
BH101D		8.0-14.0 TWS		0		0						
12/05/2021	0.3		0.0003	0.2	0.0002	0	21	0	0.1	1004	Partially	
25/05/2021	0		0	0.1	0.0001	6	18.8	0	0.1	1011	Partially	
18/06/2021	0		0	0.2	0.0002	5 (1)	17.1	0	0.1	1006	Partially	
24/06/2021	0		0	0.2	0.0002	17(2)	17.8	2.7	0.1	1015	Partially	
Max Test		0.3	0.0003	0.2	0.0002				0.1			
BH102	17.5-20.5	Response zone flooded on all occasions.										
BH103S	1.0-2.0		0		0							
08/03/2021		1.2	0.0012	0.1	0.0001	0	15.6	0.6	0.1	1020	No	
15/03/2021		0.2	0.0002	0.2	0.0002	0	20.3	n.m.	0.1	1016	Partially	
22/03/2021		1	0.001	0.2	0.0002	0	14.9	n.m.	0.1	1023	Partially	
06/04/2021		0.9	0.0009	0.2	0.0002	0	17.6	3.2	0.1	1016	Partially	
Max test		1.2	0.0012	0.2	0.0002				0.1			
BH103D	17-20	Response zone flooded on all occasions.										
BH104	10 to 16 m TWS											
12/05/2021		3.7	0.0037	0.1	0.0001	0	7.2	0	0.1	1004	Partially	
25/05/2021		3.6	0.0036	0.2	0.0002	0	1.8	0	0.1	1012	Partially	
18/06/2021		4.3	0.0645	0.4	0.006	1	0.3	0.5	1.5	1006	Partially	
24/06/2021		3.9	0.0078	0.4	0.0008	1	1.5	1.1	0.2	1015	Partially	
Max test		4.3	0.086	0.4	0.008				2	Peak flow		
BH105	10 to 16 m TWS											
12/05/2021		6.1	0.0061	0.1	0.0001	1	19.8	0	0.1	1005	Partially	
25/05/2021		0.1	-0.0024	0.1	-0.0024	0	1.9	0	-2.4	1012	Partially	
18/06/2021		0	0	0.4	0.0036	1	0.3	4.2 (3.7)	0.9	1006	Partially	
24/06/2021		0	0	0.4	0.0096	2	1.3	4.2	2.4	1015	Partially	
Max Test			6.1	0.2135	0.4	0.014				3.5	Peak flow	
BH106	11.3-20.3 TWS											
19/01/2021		13.6	14.144	0	0	0	1	n.r.	104	984	n.r.	
22/02/2021		0.1	0.0057	0.1	0.0057	0	21.2	0.3	5.7	1014	Partially	
08/03/2021		7.9	0.3002	0	0	9	10.4	0.4	3.8	1022	Partially	
15/03/2021		0	0	0.1	0.0034	0	21.2	n.m.	3.4	1022	Partially	
22/03/2021		0	0	0.1	0.0036	0	20.8	n.m.	3.6	1024	Partially	
06/04/2021		8.1	0.2268	0.1	0.0028	32	10.1	0.5	2.8	1016	Partially	
16/04/2021		0	0	0	0	-10	20.5	n.m	7.2	1025	Partially	
12/05/2021			Gasflux installed 12/05/21 to 25/06/21									