

Carbon Capture Bubble Filter



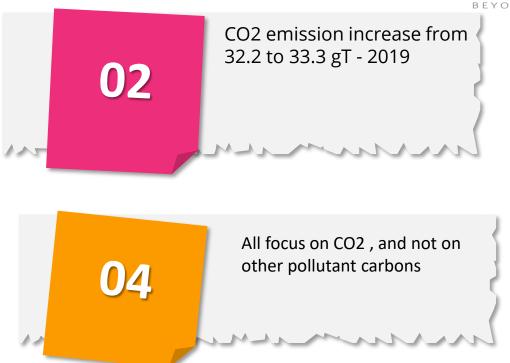


Market Gap

Carbon Capture







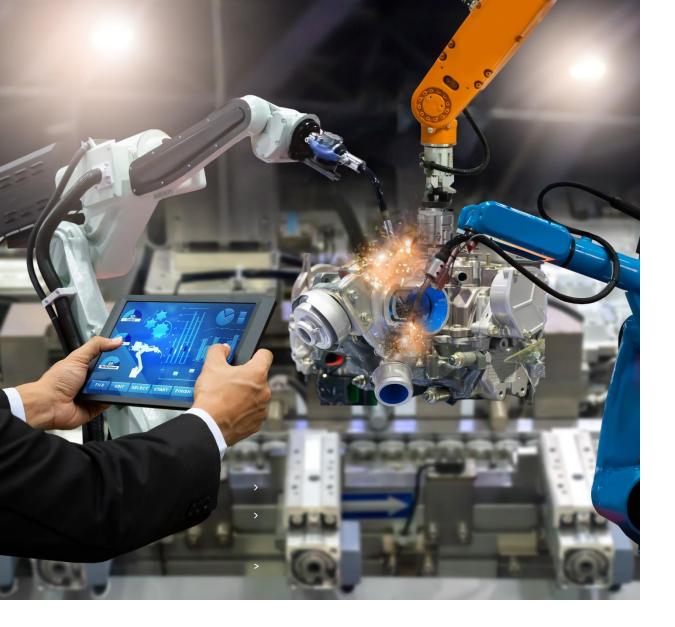


Carbon Capture

The Problem

CORNERSTONE
INTERNATIONAL
BEYOND LIMITS

- □Current technologies are large and expensive
- ☐ High level of Carbon and Methane emissions
- ☐ Significant capital cost to set-up large scale CCS systems
- □Substantial annual operational expenses to run systems at optimum levels.
- □ New government regulations on achieving net zero compliances
- □Concentration on capturing emissions only from large industrial plants
- □Other forms of particulated carbons are still emitted to the atmosphere.
- □Existing technologies capture only 1 form of carbon, either only CO2 or CH4
- □CO2 stored in huge reservoirs deep under the earth or ocean.





Market Need:

For carbon capture bubble filter

Need for a cost-effective and easily customizable all-in-one device which helps in carbon capture and sequestration thereby reducing carbon emissions

Required in

- Automobiles
- Large industrial complexes / factories
- Sewage Treatment Plants
- Hotels & Restaurants
- Households & Apartments
- Oil Refineries & Oil Sands
- Cattle Sheds
- Medical grade equipment manufacturers

Carbon Capture

The Solution



Technology to Achieve 'Net Zero'

cost-effective technology to capture all forms of particulated carbon from nanotonne to gigaton scale





Modular system

Modularized and containerized solutions to easily scale your carbon capture system



Engineering services

Engineering services to help in stages of exploration, design and engineering process



Technology license

Custom design for your unique site that makes the most of our inbuilt processes.



High-performance solvents

 Proprietary solvent formulation provides better carbon capture results and is efficient



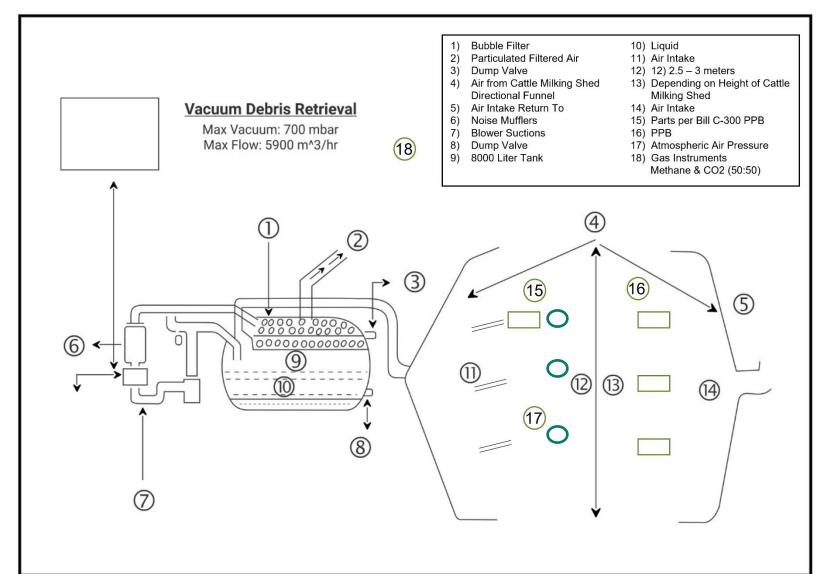
Warranty

5 years' product warranty. No moving parts

Customized Design

Carbon Capture for Cattle Milking Shed









Carbon Capture

The Design





This design was used in 1985 by Barry Brothers Specialized Services. This technology was used to clean a Beef Sewer Pit which was also a pumping station that carried the debris to the Werribee Treatment Plant. The unit was used mainly to protect the people working in the plant from exposure to methane gas.



It will have dual supply power supply, one via solar panel and the other via conventional electricity supply input. Hence with this hybrid model, the electricity power consumption is quite low.



The noise from the blower from where the particulated air comes out also has a muffler attached to it, hence the noise level is kept below 80 dB.



A specially formulated liquefied chemical combination is used in the bubble filter. This is a very economical and natural method of capturing carbon and methane gas. However, due to our strict patent regulations and privacy act, the formulation is a trade secret and kept confidential. However, the SGS, Australia, reports certifies the high performance extraction ability of the formulation.



The residue collected in the bubble filter contains CO2 and methane gas while the



The tank will contain natural salts. Both the residue and the natural salts collected can be used as fertilizers.



SGS Test Reports



HOLDING TIME SUMMARY

rent regulations and are highly dependent on sample container preservation as sp. ENV.0011, Soil samples guidelines are derived from NEPM "Schedule 8(3) G ses are derived from "ASA/2S 5667.1 : 1896 Water Quality - earnpling part in 2005.

es listed are calculated from the date sampled, although holding times may be had samples may be held before extraction or analysis and still be considered valid.

when within suggested criteria or Red with an appended dagger symbol (†) when outside s

QC Ref	Sampled	Received	Extraction Due	Extr	
B048015	04 Feb 2022	04 Feb 2022	11 Feb 2022	08 Fe	
R048015	04 Feb 2022	G4 Feb 2022	11 Feb 2022	OS Fe	
.8048015	04 Feb 2022	04 Feb 2002	11 Feb 2022	08 Fw	

SURROGATES

lower limit criteria established in the SGS QA/QC plan (Ref: MP-()C are to be within 70-130% where control charts have not been as an acceptance criterion. Water sample surrogate spike reco an acceptance criterion.

criteria or Red with an appended reason identifer when outside su

METHOD BLANKS

f reporting (LOR), for the chosen method and its associated instrumer

or Red with an appended dagger symbol (†) when outside suggested criteria.

noter arton

DUPLICATES

rence (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 /

owable Difference (MAD) criteria and can be graphically represented by xmula: MAD = 100 x SDL / Mean + LR

a number larger than 200 it is displayed as 200.

criteria or Red with an appended reason identifer when outside suggest

nded data for the original and replicate result. Manual calculation of the RPD from t

Parameter	Units
Total Carbon	mg/L

STATEMENT OF QA/QC PERFORMANCE

TYLTD	Manager Laboratory	Adam Atkinson SGS Melbourne EH&S
DURT INY VIC 3175	Address	10/585 Blackburn Roa Notting Hill Victoria 31
128	Telephone	+61395743200
ied)	Facsimile	+61395743399
outlook.com	Email	Au.SampleReceipt.Me
imples	SGS Reference	ME325005 R0
	Date Received	04 Feb 2022
	Date Reported	09 Feb 2022

or each environmental matrix was compared to SGS' stated Data Quality Objectivere made and are reported below.

g was taken from the Chain of Custody document. t be read in conjunction with the referenced Analytical Report. ytical Report must not be reproduced except in full.

were met (within the SGS Melbourne EH&S laboratory).

BORATORY CONTROL SAMPLES

uated against an expected result, typically the concentration of The criteria applied to the percentage recovery is established in g page of this report.

or Red with an appended dagger symbol (†) when outside suggested criti-

Units

MATRIX SPIKES

e percentage recovery of an expected result, typically the concentration of is result is subtracted from the sub-sample result before determining the S QA/QC plan (ref. MP-(AU)-[ENV]QU-022). For more information refer I

gested criteria or Red with an appended reason identifer when outside sur

	Units
--	-------

MATRIX SPIKE DUPLICATES

srcent Difference (RPO) using the formula: RPO = | Original Result - ReplicateResult | matrix spike. The Duplicate result is the analyte concentration of the matrix spike dup. Allowable Difference (MAD) criteria and care be graphically represented by informula: MAD = 10x SDL / Man + 18.

to a number larger than 200 it is displayed as 200.

ria or Red with an appended reason identifer when outside suggested criteria. Refer to

arameter Units LC tal Carbon mg/L

Not write to present a property on the control of t

3 water Type of documentation received Ambient Turnaround time requested

SGS Test Reports

ANALYTICAL REPORT

ANALYTICAL REPORT

FOOTNOTES



	LABORATORY DETAIL	5
	Manager	Adam Alkinso
	Laboratory	9G8 Melbour
	Address	10/585 Black
5		Notting Hill V
	Telephone	+6139574321
	Facsimile	+6139574331
	Email	Au. Sample Ra
	SGS Reference	ME325005 I
	Date Received	04 Feb 2022
	Date Reported	09 Feb 2022

ISO:17025 standards, results of analysis in this report fall outside

ed due to high target analyte concentration.

		le Number ple Matrix	ME325005.001 Water
	Sa	4/2/22 13:00	
	San	nple Name	Bottle #1
Units	}	LOR	
A-1117.WW.01	Tested:	8/2/2022	
mg/L		1	3800

LOR Limit of Reporting

† Raised or Lowered Limit of

QFH QC result is above the upp

QFL QC result is below the low

The sample was not analy

NVL Not Validated

by SGS, the samples have been analysed as received.

QC SUMMARY

xample, Total PAHs, Total OC Pesticides) the total wi <LOR being assumed to be zero. The summed (To For example, where 16 individual analytes are being s '2 analytes are being summed, the "Total" LOR will be the si

al is rounded after adding up the raw values.

: sign after the analytical result and is expressed as approximately 95%, unless stated otherwise in the comment:

methods with codes starting with ARS-SOP, radionu volume or per wipe as stated on the report. Becque

of analyte recovered from the sample compared the the amount

st their original counterpart samples according to the formula : \hbar re the DUP RPD is 'NA' , the results are less than the LOR and

W.01

QC Reference	Units	LOR	ME
LB048015	mg/L	1	<1.

METHOD SUMMARY

st methods with codes starting with ARS-SOP, less t ment system used. The respective detection limits hi

review according to the SGS QAQC plan and may be -and-safety.

nder its General Conditions of Service accessible ation and jurisdiction issues defined therein.

xmation contained hereon reflects the Company's finc The Company's sole responsibility is to its Client ent is unlawful and offenders may be prosecuted to the fulles

OLOGY SLIMMARY

ad is used for the analysis of Total Organic Carbon (TOC) and Disso re combustion.

Sulphuric acid preserved samples are injected as received into TOC (TOC-L CSH) analyser and detected by Non-Dispersive InfraRed (N Sulphuric acid preserved samples are filtered through 0.45 µm filter nd detected by NDIR analyser.

ent, Health and Bidg 10, 585 Blackburn Rd Notting Hill VIC

