



Centro de Biologia Experimental Oceanus Ltda

Laboratory of water analyses

REG.INEA:UN015590/55.11.10 CCL NºIN018913
CNPJ 28383198/0001-59. INSC. MUN. 313818-6 Almirante Cochrane street, 37, Tijuca, CEP 20550-040
- Rio de Janeiro, RJ, Tel-Fax- (55 - 21) 2567-0819 / 2567-3871

CERTIFICATION OF MEASUREMENT FOR WATER'S QUALITY

Nº 69517

ESTABLISHMENT INFORMATION	
CORPORATE NAME: C & C TECHNOLOGIES DO BRASIL LTDA	
NICKNAME: C & C TECHNOLOGIES	
ADDRESS: AV. DAS AMÉRICAS, 11889, SALA 301	
NEIGHBORHOOD: BARRA DA TIJUCA	DISTRICT: RJ/RJ
CITY: RIO DE JANEIRO	CEP: 22793-082
TELEPHONE: (21) 2499-9509	CNPJ/CPF: 04.813.778/0001-70

VESSEL INFORMATION	
SHIP: MARUJO DE FERRO	
HARBOR: SILA SHIRPTEC	

SAMPLE DATA	
SAMPLE ORIGIN: TRATED WATER	
COLLECTION POINT: MAIN TANK	
COLLECTION RESPONSABLE NAME: DÉBORA COSTA	VOLUME: 1600 mL
SAMPLING HOUR: 08:55	SAMPLING DATE: 08.07.13
ARRIVAL HOUR IN LABORATORY: 16:00	ARRIVAL DATE IN LABORATORY: 08.07.13

ANALYTICAL RESEULTS OF THE SAMPLE				
Physico-chemical Analysis				
Parameters	Unit	Results ¹	MVA ²⁻³	QL
pH	-	7,04	6,0 – 9,5	-
Residual Chlorine(Cl ₂)	mg/L	0,88	0,2 – 5,0	0,01
Total Iron (Fe)	mg/L	0,306	0,3	0,047
Chloride	mg/L	34,15	250	0,1
Total Alkalinity	mg/L	23	-	2

ADOPTED METHODS	
Physical and Chemical Analyses: pH: SMEWW 4500 H B – Eletrometric Method; Residual Chlorine: SMEWW 4500 G – Colorimetric Method; Iron: SMEWW 3500 Fe – Phenanthroline Method; Chloride: SMEWW 4500 - Chloride; Alkalinity: SMEWW 2320 B – Titration Method.	



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REFERENCES

- 1- Officers: MS n° 2914 ANVISA of Health Department of 12th December, 2011. Standard of water potability destined to the human consumption.
- 2- Analytical methodology: Standard Methods for Examination of Water and Wastewater 20th Edition – American Public Health Association – APHA.
- 3- Agriculture Department. National Secretariat of Farming Defense. Methods for Control of Products of Animal Origin and its ingredients. II Methods Physical and Chemical, 1981.

OBSERVATIONS

SUBTITLE:

- 1- Collected water referring results.
- 2- N° 2914 ANVISA/MS limits
- 3 - MVA: Maximum value allowed

QL: Quantification limit

Note 1: These results are only for analyzed water.

Note 2: This report can only be reproduced if complete.

Note 3: The collection procedure follows the described procedures in POP COL – 001.

Note 4: The sample information were provided by the applicant.

ANALYSES FINDING

The analyzed water is not in the limits established for MS N.º 2914 ANVISA

Rio de Janeiro, August 09th, 2013.

PhD Ronaldo Leão
Technical responsible
CRBio-02339/85