



Laboratório de Ensaio acreditado
pela Cgcre/Inmetro de acordo com
a ABNT NBR ISO/IEC 17025.



Boletim de Ensaio

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Resp. Téc.: **Carina Casal**

Emitido em: **19/03/2010**

Lab-nº: **09/3774C**

Análise em amostras de solo

Cliente : Fundação Bio-Rio / Petrobras – UN-BS
Endereço : Av. Carlos Chagas Filho, nº 791
Cidade Universitária - Rio de Janeiro - RJ
Localização do Projeto : Bacia de Santos
Data da Coleta : 14, 12, 13 e 14/12/2009
Entrega das amostras : 18/12/2009
Início dos ensaios/extração : 18/12/2009 14:01
Término dos ensaios : 19/03/2010

INNOLAB do Brasil Ltda.
Rua Sacadura Cabral - 236
Saúde - Rio de Janeiro - RJ
Cep. 20221-161
CNPJ. 04.183.043/0001-00
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Projeto : PAI - Projeto de Avaliação de Impactos da Bacia de Santos
Gerente do Projeto : Cristina Falcão

Parâmetro	RS-BS#1-R1(0-2 cm) (µg/kg)	RS-BS#1-R2(0-2 cm) (µg/kg)	RS-BS#1-R3(0-2 cm) (µg/kg)	RS-BS#2-R1(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#2-R2(0-2 cm) (µg/kg)	RS-BS#2-R3(0-2 cm) (µg/kg)	RS-BS#3-R1(0-2 cm) (µg/kg)	RS-BS#3-R2(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#3-R3(0-2 cm) (µg/kg)	RS-BS#4-R1(0-2 cm) (µg/kg)	RS-BS#4-R2(0-2 cm) (µg/kg)	RS-BS#4-R3(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#5-R1(0-2 cm) (µg/kg)	RS-BS#5-R2(0-2 cm) (µg/kg)	RS-BS#5-R3(0-2 cm) (µg/kg)	RS-BS#6-R1(0-2 cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Conferido (L)



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Parâmetro	RS-BS#6-R2(0-2cm) (µg/kg)	RS-BS#6-R3(0-2cm) (µg/kg)	RS-BS#7-R1(0-2cm) (µg/kg)	RS-BS#7-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	RS-BS#7-R3(0-2cm) (µg/kg)	RS-BS#8-R1(0-2cm) (µg/kg)	RS-BS#8-R2(0-2cm) (µg/kg)	RS-BS#8-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	RS-BS#9-R1(0-2cm) (µg/kg)	RS-BS#9-R2(0-2cm) (µg/kg)	RS-BS#9-R3(0-2cm) (µg/kg)	RS-BS#10-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	RS-BS#10-R2(0-2cm) (µg/kg)	RS-BS#10-R3(0-2cm) (µg/kg)	RS-BS#11-R1(0-2cm) (µg/kg)	RS-BS#11-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1
Parâmetro	RS-BS#11-R3(0-2cm) (µg/kg)	RS-BS#12-R1(0-2cm) (µg/kg)	RS-BS#12-R2(0-2cm) (µg/kg)	RS-BS#12-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1



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Parâmetro	RS-BS#13-R1(0-2cm) (µg/kg)	RS-BS#13-R2(0-2cm) (µg/kg)	RS-BS#13-R3(0-2cm) (µg/kg)	RS-BS#14-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#14-R2(0-2cm) (µg/kg)	RS-BS#14-R3(0-2cm) (µg/kg)	RS-BS#15-R1(0-2cm) (µg/kg)	RS-BS#15-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#15-R3(0-2cm) (µg/kg)	RS-BS#16-R1(0-2cm) (µg/kg)	RS-BS#16-R2(0-2cm) (µg/kg)	RS-BS#16-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#17-R1(0-2cm) (µg/kg)	AS#17-R2(0-2cm) (µg/kg)	RS-BS#17-R3(0-2cm) (µg/kg)	RS-BS#18-R1(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

Parâmetro	RS-BS#18-R2(0-2cm) (µg/kg)	RS-BS#18-R3(0-2cm) (µg/kg)	RS-BS#19-R1(0-2cm) (µg/kg)	RS-BS#19-R2(0-2cm) (µg/kg)	L.D. (µg/kg)
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n-Alcanos C5 – C7

n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1



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Parâmetro	RS-BS#19-R3(0-2cm) (µg/kg)	RS-BS#20-R1(0-2cm)) (µg/kg)	RS-BS#20-R2(0-2cm) (µg/kg)	RS-BS#20-R3(0-2cm) (µg/kg)	L.D. (µg/kg)
n-Alcanos C5 – C7					
n-C5 (N-Pentano)	nd	nd	nd	nd	1
n-C6 (N-Hexano)	nd	nd	nd	nd	1
n-C7 (N-Heptano)	nd	nd	nd	nd	1

FM-004-L3N – Rev.00 18/02/2009– Apr. FEV/09

Observações

1. Ref. Método – EPA 8260
2. Foram utilizados Brancos de Controle conforme metodologia informada conferido


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