

GOVERNO DO ESTADO DE SÃO PAULO
SECRETARIA DE ECONOMIA E PLANEJAMENTO
SUPERINTENDÊNCIA DO DESENVOLVIMENTO DO LITORAL PAULISTA
CONVÊNIO SUDELPA - CPRM

PROJETO SUDELPA

RELATÓRIO FINAL - RECONHECIMENTO GEOQUÍMICO
PARTE III
VOLUME XVII

Winston Addas

Carlos Alfredo Guimarães da Vinha



COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
DIRETORIA DA ÁREA DE PESQUISA
AGÊNCIA SÃO PAULO

FEV. 1975

PHL
008247
2006

GOVERNADOR DO ESTADO

LAUDO NATEL

SECRETÁRIO DE ECONOMIA E PLANEJAMENTO

SÉRGIO BAPTISTA ZACCARELLI

SUPERINTENDENTE DA SUDELPA

RAUL CZARNY

COORDENADORES – SUDELPA

ANTÔNIO DE CASTILHO

BLÁS BERLANGA MARTINEZ

GILBERTO J. WEINBERGER TEIXEIRA

DIRETORES – SUDELPA

GRÁCIO PIMENTEL MARQUES

LUIZ MORIMOTO

WILSON MENDONÇA DA COSTA FLORIM

COMISSÃO DE AVALIAÇÃO DOS TRABALHOS DA CPRM

PRESIDENTE:


LUIZ MORIMOTO

MEMBROS:

BLÁS BERLANGA MARTINEZ

KATZUTOMO TAYRA

PLÁCIDO PELLEGRINI

	SUREMI SEDETE
I. 96	ARQUIVO TÉCNICO
Relatório n.º	2545
N.º de Vol. nº	18 V: 17

PROJETO SUDELPA

Chefe do Projeto *Antonio Morgental*

Equipe Executora *Fernando Batolla Jr.*
Ivo Pessato Paiva
João Bosco Viana Drumond
Geraldo Garrido Pinto
José Carlos Rodrigues
Jairo de Souza Leite
Antonio Marcos Vitória de Moraes

Colaboração Especial *Antonio Juarez Milmann Martins*
José Peres Algarte
Leonardo Jan Wronski
Luiz Antonio Gonzalez
Winston Addas
Jorge Eduardo Pinto Hausen
Ronaldo Ramalho
Carlos Alfredo Guimarães da Vinha

PROJETO SUDELPA

RELATÓRIO FINAL

ÍNDICE DOS VOLUMES

Vol.	I	-	RELATÓRIO FINAL - GEOLOGIA
Vol.	II	-	ANEXO III - MAPAS GEOLÓGICOS - PARTE I
Vol.	III	-	ANEXO III - MAPAS GEOLÓGICOS - PARTE II
Vol.	IV	-	ANEXO IV - MAPAS DE CAMINHAMENTO - PARTE I
Vol.	V	-	ANEXO IV - MAPAS DE CAMINHAMENTO - PARTE II
Vol.	VI	-	ANEXO V - FICHAS DE OCORRÊNCIAS - PARTE I
Vol.	VII	-	ANEXO V - FICHAS DE OCORRÊNCIAS - PARTE II
Vol.	VIII	-	ANEXO VI - FICHAS DE AFLORAMENTOS - PARTE I
Vol.	IX	-	ANEXO VI - FICHAS DE AFLORAMENTOS - PARTE II
Vol.	X	-	ANEXO VI - FICHAS DE AFLORAMENTOS - PARTE III
Vol.	XI	-	ANEXO VII - RESULTADOS DE ANÁLISES
Vol.	XII	-	RELATÓRIO FINAL - GEOMORFOLOGIA
Vol.	XIII	-	ANEXO VIII - MAPAS GEOMORFOLÓGICOS - PARTE I
Vol.	XIV	-	ANEXO VIII - MAPAS GEOMORFOLÓGICOS - PARTE II
Vol.	XV	-	RELATÓRIO FINAL - RECONHECIMENTO GEOQUÍMICO - PARTE I
Vol.	XVI	-	RELATÓRIO FINAL - RECONHECIMENTO GEOQUÍMICO - PARTE II
Vol.	XVII	-	RELATÓRIO FINAL - RECONHECIMENTO GEOQUÍMICO - PARTE III
Vol.	XVIII	-	SUGESTÕES E PROGRAMAÇÕES DE PROJETOS ESPECÍFICOS

APRESENTAÇÃO

A pesquisa geológica realizada pela Companhia de Pesquisa de Recursos Minerais para a Superintendência do Desenvolvimento do Litoral Paulista constou, entre outros estudos, de uma coleta de sedimentos de correntes executada paralelamente ao mapeamento geológico, em uma área de 17.054 km² no vale do Ribeira e litoral Sul do Estado de São Paulo.

Este relatório contém os resultados da prospecção geoquímica, constando de um texto inicial que trata da interpretação geoquímica sucinta dos principais elementos traços detectados pelo método analítico empregado e um sumário estatístico das populações alvos definidas em função da geologia da área (volume XV); mapas geoquímicos com áreas selecionadas para futuras pesquisas, tendo em vista os resultados alcançados pela interpretação (volume XVI) e um arquivo geral do Projeto com as coordenadas reais de cada estação amostrada, características de campo e resultados analíticos (volume XVII).

Dos trinta elementos analisados, nove não foram processados eletronicamente por insuficiência de dados (teores abaixo do limite de sensibilidade do método analítico). Para os restantes, foram efetuados os cálculos estatísticos básicos e em quinze deles (Fe, Mn, Ti, B, Ba, Be, Co, Cr, Cu, La, Nb, Ni, Pb, Sr, V) mapas geoquímicos com seleção de áreas de interesse. Na interpretação foi dada ênfase aos elementos metálicos, não deixando de se comentar outros elementos.

Finalmente, ressalta-se que no texto e nos mapas que constar a denominação folha de Iguape, na realidade trata-se da folha de Cananéia.

Colaboraram no processamento eletrônico os seguintes técnicos: Mário Mitio Sugahara, Sérgio Toshimi Kitsuta, Alfredo Pinto Vieira Neto, Antonio Carlos Censi, Júlio Cesar Neri e Maria Lúcia Graça de Lima.

S U M Á R I O

VOLUME XV - PARTE I

1 - RESUMO	1
2 - ABSTRACT	3
3 - INTRODUÇÃO	5
3.1 - Histórico	5
3.2 - Objetivo do trabalho	5
3.3 - Considerações gerais	5
4 - MÉTODO DE TRABALHO	10
4.1 - Introdução	10
4.2 - Amostragem	10
4.3 - Análise	14
4.3.1 - Técnica analítica	14
4.4 - Processamento das informações geoquímicas	15
4.4.1 - Sumário das estatísticas	15
4.4.2 - Gráfico de probabilidade	16
4.4.3 - Matriz de correlação	17
4.4.4 - Mapa de localização e teor	17
4.4.5 - Critérios utilizados na interpretação	17
5 - MAPAS GEOQUÍMICOS	19
6 - RESULTADOS OBTIDOS	22
6.1 - Introdução	22
6.2 - Falsas anomalias	24
6.3 - Bário e estrôncio associados a corpos graníticos das fo- lhas de Itararé e Registro	25
6.3.1 - Anomalias para bário	27
6.3.2 - O baixo teor de estrôncio nos metamorfitos do Grupo Açungui	28
6.3.3 - Conclusões	28
6.4 - Boro	29
6.5 - Conteúdo metálico das diferentes unidades geológicas da área do Sudelpa	29

6.5.1 - Cobre e chumbo no Grupo Açungui	31
6.5.1.1 - Cobre	33
6.5.1.2 - Chumbo	35
6.5.2 - Vanádio	40
6.6 - Correlação de elementos	42
6.6.1 - Metassedimentos do Grupo Açungui	42
6.6.2 - Ígneas (granitos intrusivos)	42
6.7 - Áreas delineadas nos mapas geoquímicos	48
7 - CONCLUSÕES	50
8 - RECOMENDAÇÕES	52
9 - BIBLIOGRAFIA	53
10- ANEXOS	55
- Anexo I : Sumário dos estimadores	56
- Anexo II : Listagem das amostras selecionadas	60
- Anexo III : Área total - Sumário das estatísticas e teste de distribuição	68
- Anexo IV : Área total - gráfico de propabilidade	92
- Anexo V : Complexo Gnaiss-migmatítico - Sumário das estatísticas e teste de distribuição	117
- Anexo VI : Complexo gnaiss-migmatítico - Gráfico de probabilidade	141
- Anexo VII : Grupo Açungui e intrusivas associadas - Sumário das estatísticas e teste de distribuição..	164
- Anexo VIII : Grupo Açungui e intrusivas associadas - Gráfico de probabilidade	187
- Anexo IX : Grupo Açungui - F. Iporanga - Sumário das estatísticas e teste de distribuição	210
- Anexo X : Batólito Três Córregos-F. Itararé (granitos ricos em bário) - Sumário das estatísticas e teste de distribuição	227

VOLUME XVI - PARTE II

- Anexo XI : Mapas geoquímicos de Fe	232
- Anexo XII : Mapas geoquímicos de Ti	251

- Anexo XIII	: Mapas geoquímicos de Mn	264
- Anexo XIV	: Mapas geoquímicos de B	280
- Anexo XV	: Mapas geoquímicos de Ba	293
- Anexo XVI	: Mapas geoquímicos de Be	315
- Anexo XVII	: Mapas geoquímicos de Co	331
- Anexo XVIII	: Mapas geoquímicos de Cr	347
- Anexo XIX	: Mapas geoquímicos de Cu	360
- Anexo XX	: Mapas geoquímicos de La	376
- Anexo XXI	: Mapas geoquímicos de Nb	389
- Anexo XXII	: Mapas geoquímicos de Ni	402
- Anexo XXIII	: Mapas geoquímicos de Pb	415
- Anexo XXIV	: Mapas geoquímicos de Sr	431
- Anexo XXV	: Mapas geoquímicos de V	447
- Anexo XXVI	: Mapas geológicos na escala 1:500.000	463

VOLUME XVII - PARTE III

- Anexo XXVII	: Chave para identificação das amostras plotadas nos mapas geoquímicos	465
- Anexo XXVIII	: Arquivo geral do Projeto Sudelpa: coordenadas reais de cada amostra	590
- Anexo XXIV	: Arquivo geral do Projeto Sudelpa: a) características da amostra; b) Parâmetros descritivos de campo; c) Parâmetros analíticos	608

ARQUIVO GERAL

- Anexo XXVII: Chave para identificação das amostradas plotadas nos mapas geoquímicos.

Engloba os seguintes ítems:

- 1 - Chave para identificação das amostras plotadas nos mapas geoquímicos.
- 2 - Folha de Itararé (amostras plotadas e coincidentes)
- 3 - Folha de Itararé - Batólito Três Córregos (amostras plotadas e coincidentes).
- 4 - Folha de Iporanga (amostras plotadas).
- 5 - Folha de Registro (amostras plotadas e coincidentes).
- 6 - Folha de São Paulo (amostras plotadas e coincidentes).
- 7 - Folha de Curitiba (amôstras plotadas).
- 8 - Folha de Iguape (amostras plotadas).

Chave para identificação das amostras plotadas nos mapas geoquímicos:

- a) Os mapas geoquímicos apresentam números que correspondem a faixas de valores indicados na folha de convenções que antecede cada mapa. Além desses números pode aparecer a letra Y, que indica valores acima dos intervalos considerados, ou ainda, * (asteriscos), que correspondem às amostras coincidentes.
- b) Cada símbolo (número ou Y) corresponde a uma amostra, cuja nomenclatura de campo aparece nas páginas de amostras plotadas.
- c) Os mapas geoquímicos apresentam no lado esquerdo uma coluna com números crescentes de 1 a 105 que representam as linhas desse mapa.
- d) As páginas posteriores apresentam as amostras plotadas em cada linha do mesmo.

Exemplificando teríamos o seguinte:

A linha 56 do mapa geoquímico de Co da folha de Itararé apresenta os símbolos abaixo:

1Y 11 1 *Y Y 1

Na folha de convenções que antecede o referido mapa encontramos os seguintes valores para estes símbolos:

1 = faixa de teores de 12,0 a 21,6 ppm

2 = faixa de teores de 21,6 a 38,9 ppm

Y = valores acima do último intervalo, ou seja valores acima de 38,9 ppm.

* = na folha de convenções não encontramos seu significado, mas sabemos da página anterior que este símbolo representa amostras coincidentes.

O mesmo mapa apresenta no canto direito superior as palavras: cartão-7 passo-3, que servirá para identificação das amostras plotadas. Assim procurando-se entre as folhas de amostras plotadas aquela que tiver as mesmas palavras do mapa geoquímico de Co da folha de Itararé, isto é, cartão-7 passo-3, encontrar-se-á a mesma sequência de números representantes das linhas do referido mapa. Na linha 56 teremos as seguintes siglas de campo, representando as amostras cujos valores estão acima referidos:

IP0480 IP0482 IP0483 JR0290 IP0706 JR0289 JR0429
JR0428

Fazendo a correspondência obteremos:

IP0480	IP0482	IP0483	JR0290	IP0706	JR0289	JR0429	JR0428
1	Y	1	1	1	Y	Y	1

Como observamos nesta folha de amostras plotadas, encontramos oito amostras na linha 56, que correspondem a oito dos nove símbolos plotados no mapa geoquímico cartão-7 passo-3.0 *(asterístico), que representa as amostras coincidentes, será identificado nas folhas de amostras coincidentes que se encontram logo após as folhas de amostras plotadas. Tais folhas que tem no canto superior direito as palavras cartão-7 passo-3, apresentam na sua porção esquerda uma coluna de números que correspondem as linhas com amostras coincidentes. Assim na linha 56 o *(asterisco) procurado corresponde as amostras JR0290 e IP0706.

Sumarizando temos:

1 - Mapa geoquímico de Co folha de Itararé

					cartão-7	passo-3
linha 56	1Y	111		*Y	Y1	

2 - Amostras plotadas

cartão-7 passo-3

linha 56 IP0480 IP0482 IP0483 IP0290 IP0706 JR0289
JR0429 JR0428

3 - Amostras coincidentes

cartão-7 passo-3

linha 56 JR0290 IP0706

linha de Itararé = passo-3

cartão 1	=	Fe
cartão 2	=	Ti
cartão 3	=	Mn
cartão 4	=	B
cartão 5	=	Ba
cartão 6	=	Be
cartão 7	=	Co
cartão 8	=	Cr
cartão 9	=	Cu
cartão 10	=	La
cartão 11	=	Nb
cartão 12	=	Ni
cartão 13	=	Pb
cartão 14	=	Sr
cartão 15	=	V

Folha de Itararé (Batólito Tres Córregos) = passo-1

Mapa 1 = Ba

Folha de Iporanga = passo - 1

cartão 1 = Fe

cartão 2 = Mn

cartão 3 = Ba

cartão 4 = Cu

cartão 5 = Pb

Folha de Registro = passo-2

cartão 1 = Fe
cartão 2 = Ti
cartão 3 = Mn
cartão 4 = B
cartão 5 = Ba
cartão 6 = Be
cartão 7 = Co
cartão 8 = Cr
cartão 9 = Cu
cartão 10 = La
cartão 11 = Nb
cartão 12 = Ni
cartão 13 = Pb
cartão 14 = Sr
cartão 15 = V

Folha de São Paulo = passo-4

cartão 1	=	Fe
cartão 2	=	Ti
cartão 3	=	Mn
cartão 4	=	B
cartão 5	=	Ba
cartão 6	=	Be
cartão 7	=	Co
cartão 8	=	Cr
cartão 9	=	Cu
cartão 10	=	La
cartão 11	=	Nb
cartão 12	=	Ni
cartão 13	=	Pb
cartão 14	=	Sr
cartão 15	=	V

Folha de Curitiba = passo - 1

cartão 1	=	Fe
cartão 2	=	Ti
cartão 3	=	Mn
cartão 4	=	B
cartão 5	=	Ba
cartão 6	=	Be
cartão 7	=	Co
cartão 8	=	Cr
cartão 9	=	Cu
cartão 10	=	La
cartão 11	=	Nb
cartão 12	=	Ni
cartão 13	=	Pb
cartão 14	=	Sr
cartão 15	=	V

Folha de Iguape = passo - 5

cartão 1	=	Fe
cartão 2	=	Ti
cartão 3	=	Mn
cartão 4	=	B
cartão 5	=	Ba
cartão 6	=	Be
cartão 7	=	Co
cartão 8	=	Cr
cartão 9	=	Cu
cartão 10	=	La
cartão 11	=	Nb
cartão 12	=	Ni
cartão 13	=	Pb
cartão 14	=	Sr
cartão 15	=	V

FOLHA DE ITARARÉ

- Amostras plotadas

- Folhas 1 a 45 do computador

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 1 PASSO - 3			
33 -	IP0689								
34 -	IP0691	JL0384	JD0296	JDC252					
35 -	IP0659	IP0661	JR0446						
36 -	JL0385	JL0382							
37 -	IP0647	IP0695	JR0471	JL0387	JL0383				
38 -	IP0611	JL0389	JL0363	JD0304					
40 -	IP0650	JR0465	JD0855	JD0855A					
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343				
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339			
43 -	IP0696								
44 -	IP0624	JL0390							
45 -	JR0439	JR0454	JD0365	JD0339	JL0359				
46 -	JR0440	IP0713	JD0338						
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337			
48 -	IP0607	IP0608	IP0638	IPC699	JL0375				
49 -	IP0564	IP0712	IP0711						
50 -	IP0563	IP0634	IP0700	JR0434	JF0453				
51 -	IP0558	IP0702	JR0442	JD0400	JD0393				
52 -	IP0560	IP0559	IP0714	JR0432	JF0433	JD0399	JD0370		
53 -	JR0235	JR0236	IP0705	JR0450	JD0403				
54 -	JR0415	JD0398							
55 -	JF0240	JR0237	JR0416	JR0414	JF0448	JD0397			
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JR0289	JR0429	JR0428	
57 -	IP0481	JF0232	JR0278	JR0277	JF0425	JF0426	JR0395	JD0746	JD0887B
58 -	IP0473	IP0566	JP0231	JF0238	JF0401				
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JF0412	JR0399	JR0397	JS0745
60 -	IP0476	JR0228	IP0528	IP0527	JF0422	JD0635			
61 -	IP0407A	JF0245	JR0246	IP0666	JF0387				
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JF0410	JD0627		
63 -	JR0226	JR0375	JR0373	JD0690					
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547		
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	JD0658		
66 -	JR0251	JR0408	JP0421	JD0667					
67 -	JR0317	JP0253	JP0409	JR0420	JF0419	JF0313			
68 -	JR0318	JR0256	JR0384	JP0385					
69 -	JR0320	JF0319	JR0257	JR0380	JP0351	JD0738			
70 -	JR0329	JR0213	JR0365	IP0577					
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JD0689			
72 -	JF0326	JF0325	JR0307	JR0306	IP0587	IP0578	JD0722		
73 -	JR0298	JF0225	IP0596	JDC727					
74 -	JF0367	JR0356							
75 -	JR0368	IP0595	IP0591	JR0255	JD0700				
76 -	JR0370	JP0371	IP0594	JDC698					
77 -	JR0216	JR0248	IP0592	JR0359	JD0703				
78 -	JR0269	AM0339	AM0341	JF0335	JF0360				

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 1	PASSO - 3
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AM0234	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 2	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JF0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JF0115	JF0116	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0104	IP0105				
51 -	IP0155	JR0048	JF0049	IP0311	UP0071							
52 -	JF0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JF0070	JF0128	JF0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JF0129	JR0148	IP0400	IP0401	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	FB0118	FB0114	FB0113	JF0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0402	IP0493						
62 -	IP0372	FB0110	JR0137	IP0396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FR0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0350	IP0359	IP0366	IP0386	JF0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0368	IP0387	JR0167	JR0169	JF0156	JR0177						
71 -	JF0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0399											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0375	JD0376	JD0374	JD0373	JD0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COFRETE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 2	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	JDC292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JD0304			
40 -	IP0650	JR0465	JD0855	JD0855A			
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	JDC339	JL0359		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IP0699	JL0375		
49 -	IP0564	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JR0453		
51 -	IP0558	IP0702	JP0442	JD0400	JD0393		
52 -	IP0560	IP0559	IP0714	JR0432	JR0433	JD0399	JD0370
53 -	JR0235	JR0236	IP0705	JR0450	JD0403		
54 -	JR0415	JD0398					
55 -	JR0240	JR0237	JR0414	JR0416	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JP0289	JR0429
57 -	IP0481	JR0232	JR0278	JP0277	JR0425	JR0426	JR0428
58 -	IP0473	IP0566	JR0231	JR0238	JP0401	JR0395	JD0746
59 -	IP0477	JR0274	JR0248	JP0400	JR0286	JP0412	JD0887B
60 -	IP0476	JR0228	IP0528	IP0527	JR0412	JR0399	JS0745
61 -	IP0407A	JR0245	JP0246	IP0066	JR0422	JD0635	
62 -	IP0513	IP0508	IP0474	JR0227	JR0387		
63 -	JR0226	JR0375	JR0373	JD0690	JR0219	JR0410	JD0627
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JP0311	JD0658
66 -	JR0251	JR0408	JR0421	JDC667			
67 -	JR0317	JR0253	JR0409	JR0420	JR0419	JF0313	
68 -	JR0318	JR0256	JR0384	JP0385			
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	JD0738	
70 -	JR0329	JP0213	JR0365	IP0577			
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JD0589	
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722
73 -	JR0298	JF0225	IP0596	JDC727			
74 -	JR0367	JF0356					
75 -	JR0368	IP0591	IP0591	JR0355	JD0700		
76 -	JR0370	JP0371	IP0594	JDC698			
77 -	JR0216	JR0268	IP0592	JR0359	JD0703		

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 2	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0264	AM0265	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDEIPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 3	PASSO - 3
39 -	JR0107											
40 -	JP0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0400	IP0401	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0402	IP0493						
62 -	IP0372	FB0110	JR0137	IPC356	IP0512							
63 -	IP0364	IP0403	IP0411	IPC409	JR0175							
64 -	IP0374	IP0359	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JF0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0360	IP0359	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JF0183									
70 -	IP0388	IP0387	JR0167	JR0168	JR0156	JR0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0389											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0375	JD0376	JD0374	JD0373	JD0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COFFENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 3	PASSO - 3
31 -	JD0378	JL0371										
33 -	IP0689											
34 -	IP0591	JL0384	JD0296	JD0292								
35 -	IP0659	IP0661	JR0446									
36 -	JL0385	JL0382										
37 -	IP0647	IP0695	JR0471	JL0387	JL0383							
38 -	IP0611	JL0389	JL0363	JD0304								
40 -	IP0650	JR0465	JD0855	JD0855A								
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343							
42 -	IP0716	IP0718	JL0391	JL0389	JD0345	JL0339						
43 -	IP0696											
44 -	IP0624	JL0390										
45 -	JR0439	JR0454	JD0365	JD0339	JL0359							
46 -	JR0440	IP0713	JD0338									
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337						
48 -	IP0608	IP0607	IP0638	IP0699	JL0375							
49 -	IP0564	IP0712	IP0711									
50 -	IP0563	IP0634	IP0700	JR0434	JR0453							
51 -	IP0558	IP0702	JR0442	JD0400	JD0393							
52 -	IP0560	IP0559	IP0714	JR0432	JR0433	JD0399	JD0370					
53 -	JR0235	JR0236	IP0705	JR0450	JD0403							
54 -	JR0415	JD0398										
55 -	JR0240	JR0237	JR0414	JR0416	JR0448	JD0397						
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JR0289	JR0429	JR0428				
57 -	IP0481	JR0232	JR0278	JR0277	JR0425	JR0426	JR0395	JD0746	JD0887B			
58 -	IP0473	IP0566	JR0231	JR0238	JR0401							
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JR0412	JR0399	JR0397	JS0745			
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	JD0635						
61 -	IP0407A	JR0245	JR0246	IP0666	JR0387							
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	JD0627					
63 -	JR0226	JR0375	JR0373	JD0650								
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547					
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	JD0658					
66 -	JR0251	JR0408	JR0421	JD0667								
67 -	JR0317	JR0253	JR0409	JR0419	JR0420	JR0313						
68 -	JR0318	JR0256	JR0384	JR0385								
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	JD0738						
70 -	JR0329	JR0213	JR0365	IP0577								
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JR0689						
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722					
73 -	JR0298	JR0225	IP0596	JD0727								
74 -	JR0367	JR0356										
75 -	JR0368	IP0595	IP0591	JR0355	JD0700							
76 -	JR0370	JR0371	IP0594	JD0698								
77 -	JR0216	JR0268	IP0592	JR0355	JD0703							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 3	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AP0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AM0234	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	HV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 4	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JF0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JF0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JFC111	IP0354	IP0129	IP0210					
48 -	JR0116	JR0115	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0104	IP0105				
51 -	IP0155	JF0048	JF0049	IP0211	IP0071							
52 -	JF0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0352	JF0089	JR0090	JR0081					
54 -	IP0338											
55 -	JF0118	IP0339	AM0155									
56 -	JR0070	JR0128	JF0132	JFC153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JF0148	IP0401	IP0400	IP0442	IP0441		
58 -	JF0133	IP0399	IP0353	IPC464								
59 -	JR0121	FB0118	FB0114	FB0113	JF0136	IP0394	IP0492					
60 -	IP0378	IP0377	FR0125	JFC135	JF0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0402	IP0493						
62 -	IP0372	FB0110	JR0137	IPC356	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JF0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JF0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JF0173						
67 -	IP0371	IP0367	AM0133	JFC158								
68 -	IP0357	IP0360	IP0359	IP0366	IP0386	JF0162	JR0182	JR0179				
69 -	AM0117	JF0176	JR0183									
70 -	IP0388	IP0387	JF0167	JRC169	JF0156	JF0177						
71 -	JF0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JF0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JF0196						
73 -	IP0399											
15 -	J00477											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	J00371	JL0366										
30 -	J00377	J00376	J00375	J00374	J00373	J00372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 4	PASSO - 3
31 -	JD0378	JL0371										
33 -	IP0689											
34 -	IP0691	JL0384	JD0296	JD0292								
35 -	IP0659	IP0661	JR0446									
36 -	JL0385	JL0382										
37 -	IP0647	IP0695	JR0471	JL0387	JL0383							
38 -	IP0611	JL0389	JL0363	JD0304								
40 -	IP0650	JR0465	JD0855A	JD0E55								
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343							
42 -	IP0716	IP0718	JL0391	JL0368	JD0345	JL0339						
43 -	IP0696											
44 -	IP0624	JL0390										
45 -	JR0439	JF0454	JD0365	JD0339	JL0359							
46 -	JR0440	IP0713	JD0338									
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337						
48 -	IP0607	IP0608	IP0638	IP0699	JL0375							
49 -	IP0564	IP0712	IP0711									
50 -	IP0563	IP0634	IP0700	JR0434	JF0453							
51 -	IP0558	IP0702	JR0442	JD0400	JD0393							
52 -	IP0559	IP0560	IP0714	JR0432	JF0433	JD0399	JD0370					
53 -	JR0235	JF0236	IP0705	JR0450	JD0403							
54 -	JR0415	JD0398										
55 -	JR0240	JR0237	JR0416	JR0414	JR0448	JD0397						
56 -	IP0480	IP0482	IP0483	JF0290	IP0706	JR0289	JR0429	JR0428				
57 -	IP0481	JF0232	JR0278	JR0277	JR0425	JR0426	JR0395	JD0746	JN0887B			
58 -	IP0473	IP0566	JF0231	JR0238	JR0401							
59 -	IP0477	JR0274	JR0248	JF0400	JR0286	JR0412	JR0399	JP0397	JS0745			
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	JD0635						
61 -	IP0407A	JR0245	JR0246	IP0666	JR0387							
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	JD0627					
63 -	JR0226	JR0375	JR0373	JR0690								
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547					
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	JD0658					
66 -	JR0251	JR0408	JP0421	JD0667								
67 -	JR0317	JR0253	JR0409	JP0415	JR0420	JR0313						
68 -	JR0318	JR0256	JR0384	JR0385								
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	JD0739						
70 -	JR0329	JR0213	JR0365	IP0577								
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JD0689						
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722					
73 -	JR0298	JP0225	IP0596	JD0727								
74 -	JR0367	JR0356										
75 -	JR0368	IP0595	IP0591	JR0355	JD0703							
76 -	JR0370	JR0371	IP0594	JD0698								
77 -	JR0216	JR0268	IP0592	JR0356	JD0703							

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 4	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM020C	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 5	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JP0109	IP0085	JR0112	JRC113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IPC239	IP0251							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0104	IP0105				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IPC068	IP0069							
53 -	JR0060	IP0294	IP0257	IFG353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0400	IP0401	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JP0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IPC409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JRC158								
68 -	IP0357	IP0360	IP0359	IP0366	IP0366	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JP0193									
70 -	IP0388	IP0387	JP0168	JR0167	JR0156	JR0177						
71 -	JR0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FR0102	AM0126	JR0196						
73 -	IP0389											
15 -	JD0677											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JR0371	JL0366										
30 -	JR0377	JL0376	JR0375	JL0374	JR0373	JR0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 5	PASSO - 3
31 -	JD0378	JL0371					
33 -	IPC689						
34 -	IP0691	JL0384	JD0296	JD0292			
35 -	IP0659	IP0661	JP0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JDC304			
40 -	IP0650	JR0465	JD0855A	JDC855			
41 -	JD0868	JD0868A	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	JDC339	JL0359		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IP0699	JL0375		
49 -	IP0564	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JR0453		
51 -	IP0558	IP0702	JP0442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JR0432	JR0433	JD0399	JD0370
53 -	JR0235	JR0236	IP0705	JR0450	JD0403		
54 -	JR0415	JD0398					
55 -	JR0240	JP0237	JR0414	JR0416	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JP0290	IP0706	JR0289	JR0429
57 -	IP0481	JR0232	JR0278	JR0277	JR0425	JR0426	JR0395
58 -	IP0473	IP0566	JR0231	JR0238	JR0401		JR0428
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JR0412	JD0746
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	JR0399	JR0397
61 -	IP0407A	JR0245	JR0246	IP0066	JR0387	JD0635	JS0745
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	
63 -	JR0226	JP0375	JR0373	JDC690		JD0627	
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	JD0658
66 -	JR0251	JR0408	JR0421	JDC667			
67 -	JR0317	JR0253	JR0409	JR0419	JR0420	JR0313	
68 -	JR0318	JR0256	JR0384	JR0385			
69 -	JR0320	JR0319	JR0257	JR0380	JP0351	JD0738	
70 -	JR0329	JR0213	JP0365	IP0577			
71 -	JR0223	JR0366	IP0585	JR0352	JR0673	JD0689	
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722
73 -	JR0249	JR0225	IP0596	JDC727			
74 -	JR0367	JR0356					
75 -	JR0368	IP0595	IP0591	JR0355	JD0700		
76 -	JR0370	JR0371	IP0594	JD0698			
77 -	JR0216	JR0268	IP0592	JR0356	JR0703		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 5	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JF0363	JL0548	JN0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0274	AM0235	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0264	AM0265	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 6	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0090	JR0089	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IP0356	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0359	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0350	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0359	IP0360	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0386	IP0387	JR0167	JR0168	JR0156	JR0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0389											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0376	JD0375	JR0374	JD0373	JD0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 6	PASSO - 3
31 -	JD0378	JL0371						
33 -	IP0689							
34 -	IP0691	JL0384	JD0296	JD0292				
35 -	IP0659	IP0661	JR0446					
36 -	JL0385	JL0382						
37 -	IP0647	IP0695	JR0471	JL0387	JL0383			
38 -	IP0611	JL0389	JL0363	JD0304				
40 -	IP0650	JR0465	JD0855A	JD0855				
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343			
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339		
43 -	IP0676							
44 -	IP0624	JL0390						
45 -	JR0439	JR0454	JD0365	JD0339	JL0359			
46 -	JF0440	IP0713	JD0338					
47 -	JF0435	JR0436	JL0376	JL0379	JD0368	JD0337		
48 -	IP0607	IP0608	IP0638	IPC699	JL0375			
49 -	IP0564	IP0712	IP0711					
50 -	IP0563	IP0634	IP0700	JF0434	JF0453			
51 -	IP0558	IP0702	JR0442	JD0400	JD0393			
52 -	IP0560	IP0559	IP0714	JR0432	JF0433	JD0399	JD0370	
53 -	JR0235	JR0236	IP0705	JR0450	JD0403			
54 -	JR0415	JD0398						
55 -	JR0240	JR0237	JR0416	JR0414	JR0448	JD0397		
56 -	IP0480	IP0482	IP0483	JF0290	IP0706	JR0289	JR0429	JR0428
57 -	IP0481	JR0272	JR0278	JF0277	JF0425	JR0426	JR0395	JD0746
58 -	IP0473	IP0566	JR0231	JR0238	JF0401			JD0887B
59 -	IP0477	JR0274	JR0248	JR0400	JF0286	JR0412	JR0399	JR0397
60 -	IP0476	JR0228	IP0528	IP0527	JF0422	JD0635		JS0745
61 -	IP0407A	JR0245	JR0246	IP0066	JF0387			
62 -	IP0513	IP0508	IP0474	JR0227	JF0219	JF0410	JD0627	
63 -	JR0226	JR0375	JR0373	JR0690				
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547	
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JF0311	JD0658	
66 -	JR0251	JF0408	JR0421	JR0667				
67 -	JR0317	JF0253	JR0409	JR0420	JR0419	JF0313		
68 -	JR0318	JR0256	JR0384	JF0385				
69 -	JR0320	JR0319	JR0257	JR0380	JF0351	JD0738		
70 -	JR0329	JR0213	JR0365	IP0577				
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JD0689		
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722	
73 -	JR0298	JR0225	IP0596	JD0727				
74 -	JR0367	JR0356						
75 -	JR0368	IP0595	IP0591	JF0355	JD0700			
76 -	JR0370	JR0371	IP0594	JR0699				
77 -	JR0216	JF0258	IP0592	JF0359	JD0703			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 6	PASSO - 3
78 -	JK0269	AM0339	AM0341	JRC235	JF0360			
79 -	JP0332	JF0362	JD0580					
80 -	JK0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0370					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0359					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0374						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AMG200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FRC201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 7	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IPC239	IP0251							
49 -	IP0352	IP0314	IP0252	IPC216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IPC311	UP0071							
52 -	JR0079	IP0363	IP0310	IPC068	IPC069							
53 -	JR0060	IP0294	IP0257	IP0359	JR0090	JR0089	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IPC407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0135	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0158								
68 -	IP0357	IP0359	IP0360	IP0266	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0388	IP0387	JR0168	JR0167	JR0156	JR0177						
71 -	JR0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0381	IP0380	FB0102	AM0126	JR0106						
73 -	IP0389											
15 -	JR0077											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JR0371	JL0366										
30 -	JR0377	JR0376	JR0375	JR0374	JR0373	JR0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COPRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 7	PASSO - 3
31 -	J00378	JL0371										
33 -	IP0689											
34 -	IP0691	JL0384	J00296	J00292								
35 -	IP0659	IP0661	JR0446									
36 -	JL0385	JL0382										
37 -	IP0647	IP0695	JR0471	JL0387	JL0383							
38 -	IP0611	JL0389	JL0363	J00304								
40 -	IP0650	JR0465	J00855A	J00855								
41 -	J00868	J00868A	J00867	J0034E	J00343							
42 -	IP0716	IP0718	JL0391	JL0388	J00345	JL0339						
43 -	IP0696											
44 -	IP0624	JL0390										
45 -	JR0439	JR0454	J00365	J00339	JL0359							
46 -	JR0440	IP0713	J00338									
47 -	JR0435	JR0436	JL0376	JL0379	J00368	J00337						
48 -	IP0607	IP0608	IP0638	IP0699	JL0375							
49 -	IP0564	IP0712	IP0711									
50 -	IP0563	IP0634	IP0700	JR0434	JR0453							
51 -	IP0558	IP0702	JR0442	J00400	J00393							
52 -	IP0559	IP0560	IP0714	JR0432	JR0433	J00399	J00370					
53 -	JR0235	JR0236	IP0705	JR0450	J00403							
54 -	JR0415	J00398										
55 -	JR0240	JR0237	JR0416	JR0414	JR0448	J00397						
56 -	IP0480	IP0482	IP0493	JR0250	IP0706	JR0289	JR0429	JR0428				
57 -	IP0481	JR0232	JR0278	JR0277	JR0425	JR0426	JR0395	J00746	J008878			
58 -	IP0473	IP0566	JR0231	JR0238	JR0401							
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JR0412	JR0399	JR0397	JS0745			
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	J00635						
61 -	IP0407A	JR0245	JR0246	IP0066	JR0387							
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	J00627					
63 -	JR0226	JR0375	JR0373	J00650								
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547					
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	J00658					
66 -	JR0251	JR0408	JR0421	J00667								
67 -	JR0317	JR0253	JR0409	JR0419	JR0420	JR0313						
68 -	JR0318	JR0256	JR0384	JR0385								
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	J00738						
70 -	JR0329	JR0213	JR0365	IP0577								
71 -	JR0223	JR0366	IP0585	JR0352	J00673	J00689						
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	J00722					
73 -	JR0298	JR0225	IP0596	J00727								
74 -	JR0367	JR0356										
75 -	JR0368	IP0595	IP0591	JR0355	J00700							
76 -	JR0370	JR0371	IP0594	J00698								
77 -	JR0216	JR0268	IP0592	JR0356	J00703							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 7	PASSO - 3
78 -	JF0269	AM0339	AM0341	JF0335	JP0360			
79 -	JF0332	JF0362	JD0580					
80 -	JF0330	JF0364	JP0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AM0234	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 8	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JRC113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0116	JR0115	IP0313	IPC239	IP0251							
49 -	IP0352	IP0314	IP0252	IPC216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0090	JR0089	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JRC153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	FB0118	FB0113	FB0114	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0099	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0359	IP0360	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0388	IP0387	JR0168	JR0167	JR0156	JR0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0381	IP0380	FB0102	AM0126	JR0196						
73 -	IP0369											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0376	JD0375	JD0374	JD0373	JD0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 8	PASSO - 3
31 -	JD0378	JL0371						
33 -	IP0689							
34 -	IP0691	JL0384	JD0296	JDC252				
35 -	IP0659	IP0681	JR0446					
36 -	JL0385	JL0382						
37 -	IP0647	IP0695	JR0471	JL0387	JL0383			
38 -	IP0611	JL0389	JL0363	J00304				
40 -	IP0650	JF0465	J00855A	J00855				
41 -	JD0868	JD0868A	JD0867	JDC346	JD0343			
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339		
43 -	IP0696							
44 -	IP0624	JL0390						
45 -	JF0439	JR0454	JD0365	JD0339	JL0359			
46 -	JR0440	IP0713	JD0338					
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337		
48 -	IP0607	IP0608	IP0638	IPC659	JL0375			
49 -	IP0564	IP0712	IP0711					
50 -	IP0563	IP0634	IP0700	JR0434	JF0453			
51 -	IP0558	IP0702	JF0442	JD0400	JD0393			
52 -	IP0560	IP0559	IP0714	JR0432	JR0433	JD0399	JD0370	
53 -	JF0235	JF0236	IP0705	JFC450	JD0403			
54 -	JR0415	JD0398						
55 -	JR0240	JR0237	JR0416	JR0414	JR0449	JD0397		
56 -	IP0480	IP0482	IP0483	JRC290	IP0706	JF0289	JR0429	JR0428
57 -	IP0481	JF0232	JR0278	JR0277	JF0425	JR0426	JR0395	JD0746
58 -	IP0473	IP0566	JR0231	JR0238	JF0401			JD08878
59 -	IP0477	JF0274	JR0248	JR0400	JF0286	JR0412	JR0397	JF0399
60 -	IP0476	JF0228	IP0528	IPC527	JF0422	JD0635		JS0745
61 -	IP0407A	JF0245	JR0246	IPC666	JF0387			
62 -	IP0513	IP0508	IP0474	JR0227	JF0219	JF0410	JD0627	
63 -	JR0226	JF0375	JF0373	JD0690				
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JF0423	IP0547	
65 -	IP0505	IP0496	IP0525	IP0540	JF0340	JF0311	JD0658	
66 -	JF0251	JF0409	JR0421	JDC667				
67 -	JR0317	JF0253	JR0409	JF0415	JF0420	JF0313		
68 -	JR0318	JF0256	JR0384	JR0385				
69 -	JF0320	JR0319	JF0257	JR0380	JF0351	JD0738		
70 -	JF0329	JR0213	JR0365	IP0577				
71 -	JR0223	JR0366	IP0585	JF0352	JC0673	JD0689		
72 -	JR0326	JR0325	JR0307	JF0306	IP0587	IP0578	JD0722	
73 -	JR0298	JF0225	IP0596	JD0727				
74 -	JR0367	JR0356						
75 -	JR0368	IP0595	IP0591	JR0355	JD0700			
76 -	JF0370	JF0371	IP0594	JR0356				
77 -	JF0217	JF0268	IP0592	JR0355	JD0701			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 8	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JF0360			
79 -	JR0332	JF0362	JD0580					
80 -	JR0330	JR0364	JR0363	JLC548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0264	AM0265	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0219	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 9	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IP0239	IP0251							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0104	IP0105				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0354	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IP0356	IP0512							
63 -	IP0364	IP0403	IP0411	IP0405	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0359	IP0360	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0193									
70 -	IP0388	IP0387	JR0168	JR0167	JR0156	JR0177						
71 -	JR0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0381	IP0380	FB0102	AM0126	JR0196						
73 -	IP0389											
15 -	JR0577											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JR0371	JL0366										
30 -	JR0377	JR0375	JR0376	JR0374	JR0373	JR0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 9	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	JD0292			
35 -	IP0659	IP0661	JP0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JD0304			
40 -	IP0650	JR0465	JD0855A	JD0855			
41 -	JD0858A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	JD0339	JL0359		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IP0699	JL0375		
49 -	IP0564	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JR0453		
51 -	IP0558	IP0702	JR0442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JP0432	JR0433	JD0399	JD0370
53 -	JR0235	JR0236	IP0705	JR0450	JD0403		
54 -	JR0415	JD0398					
55 -	JR0240	JP0237	JR0414	JR0416	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JR0289	JR0429
57 -	IP0481	JR0232	JR0278	JR0277	JP0425	JR0425	JR0395
58 -	IP0473	IP0566	JR0231	JR0238	JP0401		JD0746
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JR0412	JR0397
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	JD0635	JR0399
61 -	IP0407A	JR0245	JR0246	IP0066	JR0387		JS0745
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	JD0627
63 -	JR0226	JR0375	JR0373	JD0690			
64 -	IP0504	IP0403A	JR0218	JP0405	JR0403	JR0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JR0311	JD0658
66 -	JR0251	JR0408	JR0421	JD0667			
67 -	JR0317	JR0253	JR0409	JR0419	JR0420	JP0313	
68 -	JR0318	JP0256	JR0384	JR0285			
69 -	JR0320	JR0319	JR0257	JR0390	JR0351	JD0739	
70 -	JR0329	JP0213	JR0365	IP0577			
71 -	JR0223	JR0366	IP0585	JR0352	JR0673	JD0689	
72 -	JR0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722
73 -	JR0259	JR0225	IP0596	JD0727			
74 -	JR0367	JR0356					
75 -	JR0368	IP0595	IP0591	JR0355	JD0700		
76 -	JR0370	JR0371	IP0594	JD0658			
77 -	JR0216	JR0268	IP0592	JR0359	JD0703		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 9	PASSO - 3
78 -	JR0269	AM0339	AM0341	JRC335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JP0330	JR0364	JR0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0309					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AM0234	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0264	AM0265	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 10	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0116	JR0115	IP0313	IP0239	IP0251							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0070	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IP0396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0359	IP0360	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0388	IP0387	JR0168	JR0167	JR0156	JR0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0399											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0376	JD0375	JR0374	JD0373	JD0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 10	PASSO - 3
31 -	JU0378	JL0371					
33 -	IP0689						
34 -	IP0591	JL0384	JD0296	JD0292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JP0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JD0304			
40 -	IP0650	JR0465	JD0855A	JD0855			
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0330	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	JD0339	JL0350		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JF0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IPC659	JL0375		
49 -	IP0554	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JF0434	JP0453		
51 -	IP0558	IP0702	JR0442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JF0432	JF0433	JD0399	JD0370
53 -	JR0235	JF0236	IP0705	JF0450	JD0403		
54 -	JR0415	JD0398					
55 -	JF0240	JF0237	JF0414	JF0416	JP0448	JD0397	
56 -	IP0480	IP0482	IP0483	JFC250	IP0706	JF0289	JR0429
57 -	IP0481	JF0232	JR0278	JFC277	JF0425	JF0426	JR0395
58 -	IP0473	IP0566	JR0231	JF0238	JF0401		JD0887B
59 -	IP0477	JF0274	JP0248	JR0400	JP0286	JF0412	JR0399
60 -	IP0476	JR0228	IP0528	IP0527	JF0422	JD0635	JF0397
61 -	IP0407A	JF0245	JP0246	IP0066	JF0397		JS0745
62 -	IP0513	IP0508	IP0474	JFC227	JFC219	JF0410	JD0627
63 -	JR0226	JF0375	JR0373	JFC690			
64 -	IP0504	IP0403A	JF0218	JF0405	JF0403	JF0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JF0340	JF0311	JD0658
66 -	JR0251	JR0408	JR0421	JFC667			
67 -	JF0317	JF0253	JR0409	JFC419	JF0420	JF0313	
68 -	JR0318	JR0256	JF0384	JFC485			
69 -	JF0320	JF0319	JR0257	JFC360	JF0351	JD0738	
70 -	JR0329	JR0213	JR0365	IP0577			
71 -	JR0223	JR0366	IP0585	JF0352	JD0673	JD0689	
72 -	JR0326	JF0325	JF0307	JF0306	IP0587	IP0578	JD0722
73 -	JF0209	JF0225	IP0596	JD0727			
74 -	JR0367	JR0356					
75 -	JF0368	IP0595	IP0591	JFC277	JD0700		
76 -	JF0370	JF0371	IP0594	JFC690			
77 -	JR0216	JF0288	IP0592	JFC350	JD0703		

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 10	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JF0362	J00580					
80 -	JF0330	JF0364	JR0263	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0310	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COFRETE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S										CARTAO - 11	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JF0112	JRC113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JRC111	IP0354	IP0129	IP0210					
48 -	JR0115	JF0116	IP0313	IP0251	IP0239							
49 -	IP0357	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JF0048	JR0049	IPC011	UP0071							
52 -	JR0079	IP0363	IP0310	IPC068	IP0069							
53 -	JR0060	IP0294	IP0297	IP0353	JF0090	JF0089	JR0081					
54 -	IP0338											
55 -	JF0118	IP0339	AM0155									
56 -	JR0070	JF0129	JR0132	JFC153	IP0435	IP0438						
57 -	F00116	F00115	AM0154	IP0303	JF0129	JF0149	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IP0464								
59 -	JR0121	F00118	F00114	FHC113	JF0136	IP0394	IP0492					
60 -	IP0378	IP0377	F00125	JRC135	JF0138	IP0395						
61 -	IP0376	F00127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	F00110	JF0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JF0175							
64 -	IP0374	IP0369	F00109	F00111	F00098	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0368	IP0368	F00100	AM0134	IP0408	JF0173						
67 -	IP0371	IP0367	AM0133	JFC158								
68 -	IP0357	IP0359	IP0360	IPC366	IP0366	JF0162	JR0182	JF0179				
69 -	AM0117	JF0176	JF0193									
70 -	IP0398	IP0387	JFC167	JFC168	JF0156	JF0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JF0158	JR0159			
72 -	IP0355	IP0380	IP0381	F00102	AM0126	JF0196						
73 -	IP0399											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
29 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JF0377	JD0376	JD0375	JD0374	JF0373	JD0372						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 11	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	JD0292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JF0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JD0304			
40 -	IP0650	JR0465	JD0855A	JD0855			
41 -	JD0668A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0596						
44 -	IP0624	JL0390					
45 -	JR0439	JF0454	JD0365	JD0339	JL0359		
46 -	JR0440	IP0713	JD0339				
47 -	JR0435	JF0436	JL0376	JL0370	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IP0699	JL0375		
49 -	IP0644	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JF0434	JF0453		
51 -	IP0558	IP0702	JF0442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JF0432	JF0433	JD0390	JD0370
53 -	JR0235	JF0236	IP0705	JF0450	JD0403		
54 -	JF0415	JD0398					
55 -	JF0240	JF0237	JF0414	JF0416	JF0448	JD0397	
56 -	IP0490	IP0482	IP0493	JF0290	IP0706	JR0289	JR0429
57 -	IP0491	JF0232	JR0279	JF0277	JF0425	JF0426	JR0395
58 -	IP0473	IP0566	JF0231	JF0238	JF0401		JR0428
59 -	IP0477	JR0274	JF0248	JF0400	JR0296	JF0412	JR0399
60 -	IP0476	JR0228	IP0528	IP0527	JF0422	JD0635	JR0397
61 -	IP0407A	JF0245	JR0246	IP0666	JF0367		JS0745
62 -	IP0513	IP0508	IP0474	JF0227	JF0219	JF0410	JD0627
63 -	JR0220	JF0375	JR0373	JD0690			
64 -	IP0504	IP0403A	JR0218	JF0405	JF0403	JF0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JF0340	JF0311	JD0658
66 -	JF0251	JF0408	JF0421	JD0667			
67 -	JF0517	JF0253	JF0409	JF0420	JF0419	JF0313	
68 -	JF0318	JF0256	JF0384	JF0385			
69 -	JF0320	JF0319	JF0257	JF0380	JF0351	JD0739	
70 -	JF0329	JF0213	JF0365	IP0577			
71 -	JF0223	JF0366	IP0585	JF0352	JD0673	JD0689	
72 -	JR0326	JF0329	JF0307	JF0306	IP0587	IP0578	JD0722
73 -	JF0298	JR0225	IP0596	JD0727			
74 -	JF0367	JF0356					
75 -	JF0368	IP0595	IP0591	JR0355	JD0700		
76 -	JF0370	JF0371	IP0594	JD0699			
77 -	JF0216	JF0269	IP0592	JF0359	JD0703		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 11	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JF0332	JF0362	JD0580					
80 -	JF0330	JF0364	JR0363	JLC548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AM0234	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0264	AM0265	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDCLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 12	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IPC177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0315	IP0317	JRC111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0115	IP0313	IP0239	IP0251							
49 -	IP0352	IP0314	IP0252	IPC216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0104	IP0105				
51 -	IP0155	JF0048	JF0049	IP0311	UP0071							
52 -	JF0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JF0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JRC153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JF0129	JF0148	IP0400	IP0401	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JF0121	FB0118	FB0113	FB0114	JF0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0405	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JF0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IPC409	JF0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0140	AM0137	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0358	IP0358	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JRC199								
68 -	IP0357	IP0360	IP0359	IP0366	IP0346	JF0162	JR0182	JF0179				
69 -	AM0117	JF0176	JR0183									
70 -	IP0386	IP0387	JR0168	JRC167	JR0156	JF0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JF0158	JF0159			
72 -	IP0355	IP0381	IP0380	FB0102	AM0126	JF0195						
73 -	IP0399											
15 -	JR0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JR0371	JL0366										
30 -	JR0377	JR0375	JR0376	JR0374	JR0373	JR0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 12	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	JDC292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JDC304			
40 -	IP0650	JR0465	JR0855	JDC55A			
41 -	JDD868A	JDD868	JDD867	JDC346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	JD0339	JL0359		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JF0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IPC699	JL0375		
49 -	IP0564	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JR0453		
51 -	IP0558	IP0702	JR0442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JR0432	JF0433	JD0399	JD0370
53 -	JF0235	JF0236	IP0705	JR045C	JD0403		
54 -	JR0415	JD0398					
55 -	JR0240	JF0237	JR0416	JR0414	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JF0289	JR0429
57 -	IP0491	JF0232	JF0278	JR0277	JF0425	JF0426	JR0395
58 -	IP0473	IP0566	JR0231	JR0238	JR0401		JD0887B
59 -	IP0477	JF0274	JF0248	JR040C	JF0286	JF0412	JR0399
60 -	IP0476	JF0228	IP0528	IP0527	JF0422	JD0635	JR0397
61 -	IP0407A	JR0245	JR0246	IP0666	JR0387		JS0745
62 -	IP0513	IP0508	IP0474	JR0227	JR0219	JR0410	JD0627
63 -	JR0226	JF0375	JR0373	JDC690			
64 -	IP0504	IP0403A	JR0218	JF0405	JR0403	JF0423	IP0547
65 -	IP0505	IP0496	IP0525	IPC540	JR0349	JF0311	JD0658
66 -	JF0251	JR0408	JR0421	JD0667			
67 -	JF0317	JF0253	JR0409	JF0419	JR0420	JF0313	
68 -	JF0318	JF0256	JF0384	JR0385			
69 -	JR0320	JR0319	JF0257	JR0380	JR0351	JD0738	
70 -	JR0329	JR0213	JR0365	IPC577			
71 -	JR0223	JF0366	IP0585	JF0352	JD0673	JD0689	
72 -	JR0326	JF0325	JR0307	JR0306	IP0587	IP0578	JD0722
73 -	JF0298	JF0225	IP0596	JD0727			
74 -	JR0367	JR0356					
75 -	JR0368	IP0595	IP0591	JR0355	JD0700		
76 -	JR0370	JF0371	IP0594	JD0698			
77 -	JR0216	JF0260	IP0592	JR0359	JD0703		

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COPRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 12	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JF0362	JD0590					
80 -	JR0330	JF0364	JR0363	JLC548	JD0571			
81 -	AM0315							
82 -	AM0317	AMU316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MV0477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AMU334	AMC330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GGC399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GGU394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0235	AMU234	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FBU303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0545				

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE COFRETE - AREA TOTAL

LINHA	AMOSTRAS PLANTADAS										CARTAO - 13	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0116	JR0115	IP0313	IP0239	IP0251							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0079	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0099	JR0090	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0129	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JF0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JR0121	FB0118	FB0114	FB0113	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0403	IP0402						
62 -	IP0372	FB0110	JR0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JF0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JF0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JF0173						
67 -	IP0371	IP0367	AM0133	JR0198								
68 -	IP0357	IP0359	IPC360	IPC366	IP0386	JF0162	JR0182	JR0179				
69 -	AM0117	JF0176	JF0183									
70 -	IP0388	IP0387	JR0168	JR0167	JR0156	JF0177						
71 -	JR0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JF0196						
73 -	IP0389											
15 -	J00977											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0617	JL0613										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	J00371	JL0366										
30 -	J00377	J00376	J00375	J00374	J00373	J00372						

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 13	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	JDC292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0389	JL0363	JDC304			
40 -	IP0650	JF0465	JD0855A	JD0855			
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JF0454	JD0365	JD0339	JL0359		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337	
48 -	IP0607	IP0608	IP0638	IPC699	JL0375		
49 -	IP0564	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JF0453		
51 -	IP0558	IP0702	JR0442	JD0400	JD0393		
52 -	IP0560	IP0559	IP0714	JR0432	JF0433	JD0399	JD0370
53 -	JR0235	JF0236	IP0705	JF0450	JD0403		
54 -	JR0415	JD0398					
55 -	JF0240	JF0237	JF0414	JR0416	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JR0290	IP0706	JF0289	JR0429
57 -	IP0481	JF0232	JR0278	JF0277	JR0425	JR0426	JF0428
58 -	IP0473	IP0566	JR0231	JR0239	JR0401		JD0878
59 -	IP0477	JF0274	JR0248	JF0400	JF0286	JF0412	JR0397
60 -	IP0476	JF0228	IP0528	IP0527	JF0422	JR0399	JR0399
61 -	IP0407A	JF0245	JR0246	IP0066	JF0387	JD0635	JS0745
62 -	IP0513	IP0508	IP0474	JF0227	JF0219	JF0410	
63 -	JR0226	JR0375	JR0373	JDC690		JD0627	
64 -	IP0504	IP0403A	JF0218	JF0405	JF0403	JF0423	IP0547
65 -	IP0505	IP0496	IP0525	IP0540	JR0349	JF0311	JD0658
66 -	JR0251	JF0408	JF0421	JD0667			
67 -	JF0317	JF0253	JR0409	JR0419	JF0420	JF0313	
68 -	JR0318	JF0256	JR0384	JR0385			
69 -	JR0320	JF0319	JR0257	JF0380	JF0351	JD0738	
70 -	JF0329	JR0213	JR0255	IP0577			
71 -	JF0223	JF0366	IP0585	JF0352	JD0673	JD0689	
72 -	JF0326	JR0325	JR0307	JR0306	IP0587	IP0578	JD0722
73 -	JF0298	JF0225	IP0596	JC0727			
74 -	JR0367	JF0356					
75 -	JR0368	IP0595	IP0591	JR0355	JD0700		
76 -	JR0370	JF0371	IP0594	JDC698			
77 -	JR0216	JF0268	IP0592	JR0359	JD0703		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 13	PASSO - 3
78 -	JR0269	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JD0580					
80 -	JR0330	JR0364	JP0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0280	FB0276	FB0277	MVC477				
85 -	GG0364	MV0471	GG0379					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CAPTAO - 14	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JR0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JR0109	IP0085	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JR0111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IP0216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UP0071							
52 -	JR0070	IP0363	IP0310	IP0068	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0090	JR0089	JR0081					
54 -	IP0338											
55 -	JR0118	IP0339	AM0155									
56 -	JR0070	JR0128	JR0132	JR0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JR0129	JR0148	IP0401	IP0400	IP0442	IPC441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JR0121	FB0116	FB0113	FB0114	JR0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JR0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0493	IP0402						
62 -	IP0372	FB0110	JR0137	IP0396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JR0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JR0160	JR0155					
66 -	IP0355	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JR0199								
68 -	IP0357	IP0359	IP0360	IP0366	IP0386	JR0162	JR0182	JR0179				
69 -	AM0117	JR0176	JR0183									
70 -	IP0388	IP0387	JR0167	JR0169	JR0156	JR0177						
71 -	JR0117	IP0384	AM0124	AM0125	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0389											
15 -	JR00877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JR0371	JL0366										
30 -	JR0377	JR0376	JR0375	JR0374	JR0373	JR0372						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CAPTAD - 14 PASSO - 3				
31 -	JD0378	JL0371								
33 -	IP0689									
34 -	IP0691	JL0384	JD0296	JD0292						
35 -	IP0659	IP0661	JF0446							
36 -	JL0385	JL0392								
37 -	IP0647	IP0695	JR0471	JL0367	JL0383					
38 -	IP0611	JL0389	JL0363	JD0304						
40 -	IP0650	JR0465	JD0855	JD0855A						
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343					
42 -	IP0716	IP0718	JL0391	JL0388	JR0345	JL0339				
43 -	IP0696									
44 -	IP0624	JL0390								
45 -	JR0439	JR0454	JD0365	JD0339	JL0359					
46 -	JR0440	IP0713	JD0338							
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	JD0337				
48 -	IP0607	IP0608	IP0638	IPC699	JL0375					
49 -	IP0564	IP0712	IP0711							
50 -	IP0563	IP0634	IP0700	JR0434	JR0453					
51 -	IP0558	IP0702	JR0442	JD0400	JD0393					
52 -	IP0560	IP0559	IP0714	JF0432	JF0433	JD0399	JD0370			
53 -	JR0235	JR0236	IP0705	JR0450	JD0403					
54 -	JR0415	JD0398								
55 -	JR0240	JR0237	JR0414	JR0416	JR0448	JD0397				
56 -	IP0480	IP0482	IP0483	JRC290	IP0706	JF0299	JR0429	JR0428		
57 -	IP0481	JR0232	JR0278	JR0277	JR0425	JF0426	JR0395	JD0746	JD0887B	
58 -	IP0473	IP0566	JR0231	JR0238	JF0401					
59 -	IP0477	JR0274	JR0248	JR0400	JR0286	JR0412	JR0397	JR0399	JS0745	
60 -	IP0476	JR0228	IP0528	IP0527	JR0422	JD0635				
61 -	IP0407A	JR0245	JF0246	IP0066	JF0387					
62 -	IP0513	IP0508	IP0474	JR0227	JF0219	JR0410	JD0627			
63 -	JR0226	JR0375	JR0373	JD0690						
64 -	IP0504	IP0403A	JR0218	JR0405	JR0403	JR0423	IP0547			
65 -	IP0505	IP0496	IP0525	IP0540	JR0340	JF0311	JD0658			
66 -	JR0251	JF0408	JR0421	JD0667						
67 -	JR0317	JR0253	JR0409	JR0419	JR0420	JF0313				
68 -	JR0318	JR0256	JR0384	JR0385						
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	JD0738				
70 -	JR0329	JF0213	JR0365	IP0577						
71 -	JR0223	JR0366	IP0585	JR0352	JD0673	JD0689				
72 -	JF0326	JR0325	JF0307	JR0306	IP0587	IP0578	JD0722			
73 -	JR0298	JR0225	IP0596	JD0727						
74 -	JR0367	JR0356								
75 -	JR0368	IP0595	IP0591	JR0355	JD0700					
76 -	JR0370	JF0371	IP0594	JD0699						
77 -	JR0216	JR0268	IP0592	JF0359	JD0703					

S E A G

PROJETO - SUDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLANTADAS						CARTAO - 14	PASSO - 3
78 -	JR0269	AM0339	AM0341	JF0335	JF0360			
79 -	JR0332	JF0362	JD0580					
80 -	JR0330	JF0364	JP0363	JL0548	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FP0283	FB0284					
84 -	AM0240	FB0276	FB0277	MVC477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0409	GG0413					
88 -	AM0324	AM0321	FB0263	FB0266	FB0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0244	GG0350	GG0401				
94 -	FB0224	AM0287	GG0432					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0274	AM0235	AM0271	FB0302	FB0301	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FB0201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS										CARTAO - 15	PASSO - 3
39 -	JR0107											
40 -	JR0106	IP0198										
41 -	IP0344	IP0319	IP0225	IP0230								
42 -	JK0114	IP0224										
43 -	IP0103	IP0318	IP0177									
44 -	JK0109	IP0095	JR0112	JR0113	IP0181							
45 -	IP0134	IP0215										
46 -	IP0148	IP0336										
47 -	IP0351	IP0316	IP0317	JFC111	IP0354	IP0129	IP0210					
48 -	JR0115	JR0116	IP0313	IP0251	IP0239							
49 -	IP0352	IP0314	IP0252	IPC216								
50 -	IP0704	IP0342	IP0070	IP0208	IP0067	IP0200	IP0105	IP0104				
51 -	IP0155	JR0048	JR0049	IP0311	UPOJ71							
52 -	JK0079	IP0363	IP0310	IP0C68	IP0069							
53 -	JR0060	IP0294	IP0257	IP0353	JR0089	JR0090	JR0081					
54 -	IP0338											
55 -	JK0118	IP0339	AM0155									
56 -	JK0070	JR0128	JR0132	JK0153	IP0435	IP0438						
57 -	FB0116	FB0115	AM0154	IP0303	JF0129	JF0148	IP0401	IP0400	IP0442	IP0441		
58 -	JR0133	IP0399	IP0393	IPC464								
59 -	JK0121	FB0118	FB0114	FB0113	JF0136	IP0394	IP0492					
60 -	IP0378	IP0377	FB0125	JR0135	JF0138	IP0395						
61 -	IP0376	FB0127	IP0406	IP0407	IP0402	IP0493						
62 -	IP0372	FB0110	JR0137	IPC396	IP0512							
63 -	IP0364	IP0403	IP0411	IP0409	JF0175							
64 -	IP0374	IP0369	FB0109	FB0111	FB0098	AM0136	JR0174					
65 -	AM0137	AM0140	AM0150	AM0135	IP0404	JP0160	JR0155					
66 -	IP0358	IP0368	FB0100	AM0134	IP0408	JR0173						
67 -	IP0371	IP0367	AM0133	JFC198								
68 -	IP0357	IP0359	IPC360	IP0366	IP0386	JF0162	JR0182	JR0179				
69 -	AM0117	JK0176	JR0183									
70 -	IP0388	IP0387	JF0167	JFC168	JF0156	JP0177						
71 -	JK0117	IP0384	AM0125	AM0124	AM0123	AM0128	JR0203	JR0158	JR0159			
72 -	IP0355	IP0380	IP0381	FB0102	AM0126	JR0196						
73 -	IP0389											
15 -	JD0877											
22 -	JL0669	JL0671										
23 -	JL0667											
25 -	JL0614											
26 -	JL0613	JL0617										
27 -	JL0609											
28 -	JL0604	JL0618	JL0622	JL0624								
29 -	JD0371	JL0366										
30 -	JD0377	JD0376	JD0375	JD0374	JD0373	JD0372						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 15	PASSO - 3
31 -	JD0378	JL0371					
33 -	IP0689						
34 -	IP0691	JL0384	JD0296	J00292			
35 -	IP0659	IP0661	JR0446				
36 -	JL0385	JL0382					
37 -	IP0647	IP0695	JR0471	JL0387	JL0383		
38 -	IP0611	JL0399	JL0363	JD0304			
40 -	IP0650	JR0465	JD0855A	J00855			
41 -	JD0868A	JD0868	JD0867	JD0346	JD0343		
42 -	IP0716	IP0718	JL0391	JL0388	JD0345	JL0339	
43 -	IP0696						
44 -	IP0624	JL0390					
45 -	JR0439	JR0454	JD0365	J00339	JL0350		
46 -	JR0440	IP0713	JD0338				
47 -	JR0435	JR0436	JL0376	JL0379	JD0368	J00337	
48 -	IP0608	IP0607	IPC638	IPC699	JL0375		
49 -	IP0544	IP0712	IP0711				
50 -	IP0563	IP0634	IP0700	JR0434	JR0453		
51 -	IP0558	IP0702	JFC442	JD0400	JD0393		
52 -	IP0559	IP0560	IP0714	JR0432	JR0433	J00399	J00370
53 -	JR0235	JR0236	IP0705	JR0450	JD0403		
54 -	JR0415	JD0398					
55 -	JR0240	JR0237	JR0414	JR0416	JR0448	JD0397	
56 -	IP0480	IP0482	IP0483	JRC290	IP0706	JR0289	JR0429
57 -	IP0481	JR0232	JR0278	JRC277	JR0425	JR0395	JR0428
58 -	IP0473	IP0566	JR0231	JR0238	JR0401	J00746	JD08878
59 -	IP0477	JR0274	JR0248	JRC400	JR0286	JR0412	JR0399
60 -	IP0476	JR0228	IP0528	IPC527	JR0286	JR0397	JS0745
61 -	IP0407A	JR0245	JR0246	IP0066	JR0422	JD0635	
62 -	IP0513	IP0508	IP0474	JRC227	JR0387	JR0410	J00627
63 -	JR0226	JR0375	JR0373	J00690	JR0219		
64 -	IP0504	IP0403A	JR0218	JRC405	JR0403	JR0423	IPC547
65 -	IP0505	IP0496	IP0525	IPC540	JR0349	JR0311	JD0658
66 -	JR0251	JR0408	JR0421	J00667			
67 -	JR0317	JR0253	JR0409	JR0420	JR0419	JR0313	
68 -	JR0318	JR0256	JR0384	JR0385			
69 -	JR0320	JR0319	JR0257	JR0380	JR0351	JD0738	
70 -	JR0329	JR0213	JR0365	IP0577			
71 -	JR0223	JR0366	IP0585	JRC352	JR0673	JD0689	
72 -	JR0326	JR0325	JR0307	JRC306	IP0597	IP0578	JD0722
73 -	JR0298	JR0225	IP0596	J00727			
74 -	JR0367	JR0356					
75 -	JR0368	IP0595	IPC591	JR0355	JD0700		
76 -	JR0370	JR0371	IP0594	JRC698			
77 -	JR0216	JR0268	IP0592	JRC359	JD0703		

25

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 15	PASSO - 3
78 -	JR0249	AM0339	AM0341	JR0335	JR0360			
79 -	JR0332	JR0362	JDC580					
80 -	JR0330	JR0364	JR0363	JLC54F	JD0571			
81 -	AM0315							
82 -	AM0317	AM0316	FB0307					
83 -	AM0312	FB0283	FB0284					
84 -	AM0250	FB0276	FB0277	MVC477				
85 -	GG0364	MV0471	GG0378					
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384		
87 -	AM0325	GG0400	GG0413					
88 -	AM0324	AM0321	FB0263	FBC26c	FR0267	GG0346		
89 -	FB0230	AM0318	GG0399					
90 -	AM0302	AM0299	FB0257	GG0388				
91 -	FB0255	GG0360						
92 -	AM0293	AM0319	GG0374	GG0421				
93 -	AM0294	FB0246	GG0350	GG0401				
94 -	FB0224	AM0287	GG0632					
95 -	FB0223	GG0394						
96 -	AM0286	AM0273	GG0406	GG0405				
97 -	AM0274	GG0355						
98 -	AM0234	AM0235	AM0271	FB0301	FB0302	GG0625	GG0418	
99 -	AM0269	AM0265	AM0264	AM0200	GG0455	MV0595		
100 -	FB0300	GG0457						
101 -	FB0319	FB0303	GG0458					
102 -	AM0231	AM0216	FB0202	FBC201	GG0459			
103 -	FB0208	FB0207	FB0203					
104 -	AM0228	AM0229						
105 -	AM0227	GG0464	GG0551	GG0549				

- Amostras coincidentes

- Folhas 1 a 15 do computador

CPRM MAPA DE LOCALIZACAO

20.12.74

FLA. 1

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A R T A O -	L	PASSO -	3
48 -	JR0116	JR0115	IP0251	IPC239
53 -	JR0090	JR0089		
57 -	IP0400	IP0401		
59 -	FB0114	FB0113		
61 -	IP0402	IP0493		
68 -	IP0359	IP0360		
72 -	IP0381	IP0380		
26 -	JL0613	JL0617		
41 -	JD0868A	JD0868		
55 -	JR0416	JR0414		
56 -	JR0290	IP0706		
67 -	JK0420	JR0419		
99 -	AM0265	AM0264		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA	C A P T A D -	2 . PASSO -	3
48 -	JR0115	JR0116	IP0251 IP0239
53 -	IP0204	IP0257	JR0089 JR0090
57 -	IP0400	IP0401	
59 -	FB0114	FB0113	
61 -	IP0402	IP0493	
68 -	IP0360	IP0359	
72 -	IP0380	IP0381	
26 -	JL0617	JL0613	
30 -	JD0375	JD0376	
40 -	JD0855	JD0855A	
41 -	JD0868A	JD0868	
55 -	JR0414	JR0416	
56 -	JR0290	IP0706	
67 -	JR0420	JR0419	
98 -	FB0301	FB0302	
99 -	AM0264	AM0265	

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 3

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A D - 3 PASSO - 3

53 -	JR0089	JF0090
57 -	IP0400	IP0401
61 -	IP0402	IP0493
71 -	AM0124	AM0125
72 -	IP0380	IP0381
41 -	JD0868A	JD0868
55 -	JK0414	JF0416
56 -	JR0290	IP0706
59 -	JF0399	JF0397
67 -	JK0419	JF0420

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 4

S E A G

PROJETO - SLDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 4 - P A S S O - 3

30 -	JD0376	JD0375
55 -	JR0416	JR0414
67 -	JR0419	JR0420

DADOS ANALITICOS DE SEDIMENTOS DE COFRETE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA	C A S T A O -	5.	PASSO -	3
48 -	JR0115	JR0116	IP0239	IP0251
53 -	IP0294	IP0257	JR0089	JR0090
57 -	IP0400	IP0401		
59 -	FB0114	FB0113		
68 -	IP0360	IP0359		
70 -	JR0168	JR0157		
72 -	IP0380	IP0381		
26 -	JL0617	JL0613		
30 -	JD0376	JD0375		
40 -	JD0855A	JD0855		
41 -	JD0868	JD0868A		
52 -	IP0559	IP0560		
55 -	JR0414	JR0416		
59 -	JF0399	JF0397		
67 -	JR0419	JR0420		
99 -	AM0264	AM0265		

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 6

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA C A E T A O - 6 - PASSO - 3

48 -	IP0251	IP0230
53 -	JR0090	JR0089
72 -	IP0380	IP0381
40 -	JD0855A	JD0855
52 -	IP0540	IP0550
55 -	JR0416	JR0414
59 -	JR0399	JR0397
67 -	JR0470	JR0410

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 7

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CAPTA D - 7 - PASSO - 3

53 -	JR0090	JR0099
59 -	FB0114	FB0113
61 -	IP0493	IP0402
30 -	JD0376	JD0375
41 -	JD0868	JD0868A
55 -	JF0416	JF0414
56 -	JR0290	IP0704
59 -	JF0399	JF0397
67 -	JR0419	JR0420
99 -	AM0265	AM0264

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA	CARTAO -	B	PASSO -	3
48 -	IP0239		IP0251	
53 -	JP0090		JF0090	
57 -	IP0401		IP0400	
61 -	IP0403		IP0402	
26 -	JL0613		JL0617	
30 -	JD0376		JD0375	
40 -	JD0855A		JD0855	
41 -	JD0868		JD0868A	
55 -	JF0416		JF0414	
56 -	JR0290		IP0706	
59 -	JK0397		JR0399	
67 -	JR0419		JR0420	
98 -	AM0234		AM0235	
99 -	AM0264		AM0265	

CPRM MAPA DE LOCALIZACAO
S E A G

PROJETO - SUDELPA

20.12.74 FLA. 10

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEUIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A S T A O - 10	PASSO - 3
48 -	JR0116 JR0115	IP0239 IP0251
61 -	IP0493 IP0402	
68 -	IP0359 IP0360	
72 -	IP0380 IP0381	
52 -	IP0559 IP0560	
98 -	FB0302 FB0301	

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 9

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEGIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CARTAO - 9 PASSO - 3

56 - JK0290 1P0706

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 11

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SPOIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A R T A O -	II	PASSO -	3
48 -	JR0115	JR0116		
53 -	IP0244	IP0257		
59 -	FB0114	FB0113		
68 -	IP0350	IP0360		
72 -	IP0380	IP0381		
41 -	JD0868A	JD0868		
55 -	JR0414	JR0416		
59 -	JR0399	JR0397		
67 -	JR0420	JR0419		
98 -	FB0302	FB0301		
99 -	AM0264	AM0265		

CPRM MAPA DE LOCALIZACAO

S E A G

PROJETO - SUDALPA

20.12.74 FLA. 12

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 12 PASSO - 3

53 -	JR0089	JF0090
61 -	IP0493	IPU402
26 -	JL0617	JL0613
55 -	JP0416	JF0414
56 -	JR0290	IPU706
59 -	JR0399	JP0397
67 -	JR0419	JR0420
99 -	AM0265	AM0264

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A P T A O -	13	PASSO -	3
48 -	JR0116	JP0115	IP0239	IP0251
72 -	IP0380	IP0301		
41 -	JD0868A	JD0868		
52 -	IP0560	IP0559		
55 -	JR0414	JR0416		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A P T A D O - 14	PASSO - 3		
48 -	IP0251	IP0239		
53 -	IP0254	IP0257	JR0090	JP0089
57 -	IP0401	IP0400		
59 -	FB0113	FB0114		
68 -	IP0359	IP0360		
70 -	JR0167	JP0168		
26 -	JL0613	JL0617		
40 -	JD0855	JD0855A		

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A R T A O - 15	PASSO - 3		
48 -	JR0115	JR0116	IP0251	IP0239
53 -	IP0294	IP0257	JR0089	JR0090
57 -	IP0401	IP0400		
59 -	FB0114	FB0113		
61 -	IP0402	IP0493		
68 -	IP0359	IP0360		
72 -	IP0380	IP0381		
26 -	JL0613	JL0617		
40 -	JD0855A	JD0855		
41 -	JD0868A	JD0868		
48 -	IP0608	IP0607		
55 -	JR0414	JR0416		
56 -	JR0290	IP0706		
59 -	JR0399	JR0397		
67 -	JR0420	JR0419		
98 -	AM0234	AM0235	FB0301	FB0302
99 -	AM0265	AM0264		

FOLHA DE ITARARÉ
(BÁTOLITO TRÊS CÔRREGOS)

- Amostras plotadas

- Folhas 1 a 3 do computador

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL - B₂

LINHA	A M O S T R A S P L A N T A D A S					MAPA - 1	PASSO - 1
37 -	JL0383						
38 -	JL0389	JL0363					
40 -	IP0650	JD0855A	JD0855				
41 -	JD0868A	JD0868	JD0867				
42 -	JL0391	JL0388					
44 -	JL0390						
46 -	IP0713						
49 -	IP0712	IP0711					
51 -	IP0558						
52 -	IP0560	IP0559	JP0432				
53 -	IP0705						
54 -	JR0415						
55 -	JR0414	JR0416					
56 -	IP0706	JR0429	JR0428				
57 -	JR0425	JR0426	JR0395				
58 -	JR0401						
59 -	JR0400	JR0412	JR0397				
62 -	JR0219	JD0627					
64 -	JR0405						
65 -	JD0658						
66 -	JR0408	JR0657					
71 -	JR0223	JD0673					
77 -	JR0359						
78 -	AM0341						
80 -	JR0330						
81 -	AM0315						
82 -	AM0317	AM0316	FB0307				
83 -	AM0312	FB0283	FB0284				
84 -	AM0290	FB0275	FB0277				
85 -	GG0364						
86 -	AM0306	AM0334	AM0330	AM0327	FB0275	GG0384	
87 -	AM0325						
88 -	AM0324	FB0263	FB0267				
89 -	FB0230						
90 -	AM0302	AM0299	FB0257				
91 -	FB0255						
92 -	AM0293						
93 -	FB0246						
94 -	FB0224	AM0287	GG0632				
95 -	FB0223						
96 -	AM0266	AM0273	GG0406	GG0405			
97 -	AM0274						
98 -	AM0271	GG0425	GG0418				
99 -	AM0269	AM0265	AM0264				
100 -	FB0200						

CPRM MAPA DE LOCALIZACAO

23.12.74

FLA. 3

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL - B_a

LINHA

A M O S T R A S P L O T A D A S

MAPA - 1 PASSO - 1

101 - FB0303

104 - AM0229

105 - AM0227 GG0551 GG0549

- Amostras coincidentes

- Folha 1 do computador

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL - D₉

A M O S T R A S C O I N C I D E N T E S

LINHA	M A P A - 1	PASSO - 1		
48 -	IP0251	IP0239		
53 -	IP0294	IP0257	JR0090	JR0089
57 -	IP0401	IP0400		
59 -	F80113	F80114		
68 -	IP0360	IP0359		
70 -	JR0168	JR0167		
26 -	JL0617	JL0613		
40 -	JD0853A	JD0855		
41 -	JD0868A	JD0868		
52 -	IP0560	IP0559		
55 -	JR0414	JR0416		
99 -	AM0265	AM0264		

FOLHA DE IPORANGA

- Amostras plotadas

- Folhas 1 a 10 do computador

DADOS ANALITICOS DE SEQ. COR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA	A M O S T R A S P L O T A D A S		CARTAO - 1	PASSO - 1
5 -	IP0480	IP0482		
7 -	IP0483			
9 -	IP0481			
13 -	IP0566			
14 -	IP0473			
22 -	IP0477			
26 -	IP0476			
32 -	IP0407A			
33 -	IP0474			
35 -	IP0508			
37 -	IP0513			
38 -	JR0226			
44 -	IP0403A			
47 -	IP0504			
49 -	IP0505	IP0496		
50 -	IP0525			
61 -	JR0317			
64 -	JR0318			
70 -	JR0320			
71 -	JR0319			
73 -	JR0329			
83 -	JF0306			
84 -	JR0326	JR0307		
85 -	JR0325			
90 -	JR0298			
1 -	JR0240	JR0237		
6 -	IP0706			
7 -	JR0289			
8 -	JR0290			
11 -	JR0232			
12 -	JR0278	JR0277		
13 -	JR0238			
17 -	JR0231			
22 -	JR0248			
23 -	JR0274			
26 -	JR0228			
30 -	JR0245			
31 -	JR0246			
34 -	JR0219			
36 -	JR0227			
44 -	JR0218			
55 -	JR0291			
62 -	JR0253			
66 -	JR0256			
68 -	JR0257			

CPRM MAPA DE LOCALIZACAO

16.12.74

FLA. 2

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSEDIAMENTOS)

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 1 PASSO - 1

76 - JR0213
82 - JR0223
92 - JR0225
110 - JR0216
112 - JR0268
114 - JR0269

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA	AMOSTRAS PLOTADAS		CARTAO - 2	PASSO - 1
5 -	IP0480	IP0482		
7 -	IP0483			
9 -	IP0481			
13 -	IP0566			
14 -	IP0473			
22 -	IP0477			
26 -	IP0476			
32 -	IP0407A			
33 -	IP0474			
35 -	IP0508			
37 -	IP0513			
38 -	JR0226			
44 -	IP0403A			
47 -	IP0504			
49 -	IP0505	IP0496		
50 -	IP0525			
61 -	JR0317			
64 -	JR0318			
70 -	JR0320			
71 -	JR0319			
73 -	JR0329			
83 -	JR0306			
84 -	JR0326	JR0307		
85 -	JR0325			
90 -	JR0298			
1 -	JR0240	JR0237		
6 -	IP0706			
7 -	JR0289			
8 -	JR0290			
11 -	JR0232			
12 -	JR0278	JR0277		
13 -	JR0238			
17 -	JR0231			
22 -	JR0248			
23 -	JR0274			
26 -	JR0228			
30 -	JR0245			
31 -	JR0246			
34 -	JR0219			
36 -	JR0227			
44 -	JR0218			
55 -	JR0251			
62 -	JR0253			
66 -	JR0256			

CPRM MAPA DE LOCALIZACAO

16.12.74

FLA. 4

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SED. COR. FOLHA IPURANGA (METASSECIMENTOS)

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 2 PASSO - 1

68 - JR0257
76 - JR0213
82 - JPU223
92 - JR0225
110 - JR0216
112 - JR0268
114 - JR0269

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA	AMOSTRAS	PLOTADAS	CARTAO - 3	PASSO - 1
5 -	IP0480	IP0482		
7 -	IP0483			
9 -	IP0481			
13 -	IP0566			
14 -	IP0473			
22 -	IP0477			
26 -	IP0476			
32 -	IP0407A			
33 -	IP0474			
35 -	IP0508			
37 -	IP0513			
38 -	JR0226			
44 -	IP0403A			
47 -	IP0504			
49 -	IP0505	IP0496		
50 -	IP0525			
61 -	JR0317			
64 -	JR0318			
70 -	JR0320			
71 -	JR0319			
73 -	JR0329			
83 -	JR0306			
84 -	JR0328	JR0307		
85 -	JR0325			
90 -	JR0298			
1 -	JR0240	JR0237		
6 -	IP0706			
7 -	JR0289			
8 -	JR0290			
11 -	JR0232			
12 -	JR0278	JR0277		
13 -	JR0238			
17 -	JR0231			
22 -	JR0248			
23 -	JR0274			
26 -	JR0228			
30 -	JR0245			
31 -	JR0246			
34 -	JR0219			
36 -	JR0227			
44 -	JR0218			
55 -	JR0251			
62 -	JR0253			
66 -	JR0256			

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SED.CDR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 3 PASSO - 1

68 - JR0257
76 - JR0213
82 - JR0223
92 - JR0225
110 - JR0216
112 - JR0268
114 - JR0269

DADOS ANALITICOS DE SED.COR. FOLHA IPORANGA(METASSEDIMENTOS)

LINHA

AMOSTRAS PLOTADAS

CARTAO - 4 PASSO - 1

5 -	IP0480	IP0482
7 -	IP0483	
9 -	IP0481	
13 -	IP0566	
14 -	IP0473	
22 -	IP0477	
26 -	IP0476	
32 -	IP0407A	
33 -	IP0474	
35 -	IP0508	
37 -	IP0513	
38 -	JR0226	
44 -	IP0403A	
47 -	IP0504	
49 -	IP0505	IP0496
50 -	IP0525	
61 -	JR0317	
64 -	JR0318	
70 -	JR0320	
71 -	JR0319	
73 -	JR0329	
83 -	JR0306	
84 -	JR0326	JR0307
95 -	JR0325	
90 -	JR0298	
1 -	JR0240	JR0237
6 -	IP0706	
7 -	JR0289	
8 -	JR0290	
11 -	JR0232	
12 -	JR0278	JR0277
13 -	JR0238	
17 -	JR0231	
22 -	JR0248	
23 -	JR0274	
26 -	JR0228	
30 -	JR0245	
31 -	JR0246	
34 -	JR0219	
36 -	JR0227	
44 -	JR0218	
55 -	JR0251	
62 -	JR0253	
66 -	JR0256	

CPRM MAPA DE LOCALIZACAO

16.12.74

FLA. 8

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 4 PASSO - 1

68 - JR0257
76 - JR0213
82 - JR0223
92 - JR0225
110 - JR0216
112 - JR0268
114 - JR0269

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSECCIONAMENTOS)

LINHA

AMOSTRAS PLOTADAS

CARTAO - 5 PASSO - 1

5 -	IP0480	IP0482
7 -	IP0483	
9 -	IP0481	
13 -	IP0566	
14 -	IP0473	
22 -	IP0477	
26 -	IP0476	
32 -	IP0407A	
33 -	IP0474	
35 -	IP0508	
37 -	IP0513	
38 -	JR0226	
44 -	IP0403A	
47 -	IP0504	
49 -	IP0505	IP0496
50 -	IP0525	
61 -	JR0317	
64 -	JR0318	
70 -	JR0320	
71 -	JR0319	
73 -	JR0329	
83 -	JR0306	
84 -	JR0326	JR0307
85 -	JR0325	
90 -	JR0298	
1 -	JR0240	JR0237
6 -	IP0706	
7 -	JR0289	
8 -	JR0290	
11 -	JR0232	
12 -	JR0278	JR0277
13 -	JR0238	
17 -	JR0231	
22 -	JR0248	
23 -	JR0274	
26 -	JR0228	
30 -	JR0245	
31 -	JR0246	
34 -	JR0219	
36 -	JR0227	
44 -	JR0218	
55 -	JR0251	
62 -	JR0253	
66 -	JR0256	

CPRM MAPA DE LOCALIZACAO

16.12.74 FLA. 10

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SED. COR. FOLHA IPORANGA (METASSEDIMENTOS)

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 5 PASSO - 1

68 - JR0257
76 - JR0213
82 - JR0223
92 - JR0225
110 - JR0216
112 - JR0268
114 - JR0269

FOLHA DE REGISTRO

- Amostras plotadas

- Folhas 1 a 30 do computador

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 1	PASSO - 2
71 -	MV0507						
72 -	MV0440						
73 -	MV0438						
74 -	AM0072						
77 -	FB0046	FR0051	AM0053				
78 -	AM0063						
84 -	GG0319						
87 -	GG0331						
89 -	MV0666	GG0290	GG0292				
90 -	GG0448						
91 -	GG0317						
92 -	GG0289						
96 -	GG0298						
100 -	GG0294						
103 -	MV0511						
1 -	MV0398	MV0416	GG0300				
2 -	GG0306	GG0243					
3 -	MV0420						
4 -	GG0224	GG0249	MV0859				
6 -	MV0413	MV0432					
7 -	GG0324						
9 -	JLU499						
10 -	GG0339						
12 -	GG0342	GG0523	GG0522				
13 -	GG0526						
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528
15 -	MV0755	MV0724	MV0731	MV0737	GG0537		
16 -	MV0761	MV0759	MV0729				
17 -	MV0735						
18 -	MV0762	MV0754	GG0295				
21 -	MV0777	MV0780					
22 -	MV0355						
25 -	MV0343						
28 -	MV0792						
30 -	MV0337						
31 -	MV0342						
32 -	MV0335						
33 -	MV0332						
34 -	MV0842	GG0166					
35 -	GG0169						
42 -	MV0575						
48 -	MV0830						
59 -	MV0563						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 2	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0428							
74 -	AM0072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0666	GG0290	GG0292					
90 -	GG0448							
91 -	GG0317							
92 -	GG0289							
96 -	GG0288							
100 -	GG0284							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0499							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0762	MV0764	GG0295					
21 -	MV0777	MV0780						
22 -	MV0355							
25 -	MV0343							
28 -	MV0792							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0333							
34 -	MV0942	GG0166						
35 -	GG0169							
42 -	MV0575							
48 -	MV0930							
59 -	MV0563							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS						CARTAO - 3	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AM0072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0446	GG0290	GG0292					
90 -	GG0449							
91 -	GG0317							
92 -	GG0299							
96 -	GG0298							
100 -	GG0294							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0470							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0499							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0762	MV0754	GG0295					
21 -	MV0777	MV0780						
22 -	MV0355							
25 -	MV0343							
28 -	MV0792							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0333							
34 -	MV0842	GG0166						
35 -	GG0169							
42 -	MV0575							
48 -	MV0830							
59 -	MV0562							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS							CARTAO - 4	PASSO - 2
71 -	MV0507								
72 -	MV0440								
73 -	MV0478								
74 -	AM0072								
77 -	FB0045	FB0051	AM0053						
78 -	AM0063								
84 -	GG0319								
87 -	GG0331								
89 -	MV0656	GG0290	GG0292						
90 -	GG0448								
91 -	GG0317								
92 -	GG0289								
96 -	GG0288								
100 -	GG0284								
103 -	MV0611								
1 -	MV0298	MV0416	GG0300						
2 -	GG0305	GG0243							
3 -	MV0420								
4 -	GG0224	GG0249	MV0859						
6 -	MV0413	MV0432							
7 -	GG0324								
9 -	JL0459								
10 -	GG0378								
12 -	GG0342	GG0523	GG0522						
13 -	GG0526								
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528		
15 -	MV0755	MV0724	MV0731	MV0737	GG0537				
16 -	MV0761	MV0759	MV0729						
17 -	MV0735								
18 -	MV0764	MV0762	GG0295						
21 -	MV0777	MV0780							
22 -	MV0355								
25 -	MV0343								
28 -	MV0762								
30 -	MV0337								
31 -	MV0542								
32 -	MV0335								
33 -	MV0333								
34 -	MV0242	GG0156							
35 -	GG0164								
42 -	MV0574								
48 -	MV0570								
59 -	MV0563								

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T E I A S P L O T A D A S						CARTAO - 5	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AMJ072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0666	GG0290	GG0292					
90 -	GG0448							
91 -	GG0317							
92 -	GG0289							
96 -	GG0288							
100 -	GG0294							
103 -	MV0511							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0400							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0711	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0777	MV0780						
22 -	MV0365							
25 -	MV0343							
28 -	MV0702							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0333							
34 -	MV0342	GG0156						
35 -	GG0150							
42 -	MV0575							
48 -	MV0830							
59 -	MV0563							

C O C C C

S E A G

PROJETO - SUDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS							CARTAO - 6	PASSO - 2
71 -	MV0507								
72 -	MV0440								
73 -	MV0438								
74 -	AM0072								
77 -	FB0046	FB0051	AM0053						
78 -	AM0053								
84 -	GG0319								
87 -	GG0331								
89 -	MV0666	GG0290	GG0292						
90 -	GG0448								
91 -	GG0317								
92 -	GG0299								
96 -	GG0299								
100 -	GG0284								
103 -	MV0511								
1 -	MV0398	MV0416	GG0300						
2 -	GG0306	GG0243							
3 -	MV0420								
4 -	GG0224	GG0249	MV0859						
6 -	MV0413	MV0432							
7 -	GG0324								
9 -	JL0499								
10 -	GG0338								
12 -	GG0342	GG0523	GG0522						
13 -	GG0525								
14 -	MV0757	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528		
15 -	MV0755	MV0724	MV0731	MV0737	GG0537				
16 -	MV0761	MV0759	MV0729						
17 -	MV0735								
18 -	MV0764	MV0762	GG0295						
21 -	MV0777	MV0780							
22 -	MV0355								
25 -	MV0343								
29 -	MV0752								
30 -	MV0327								
31 -	MV0342								
32 -	MV0335								
33 -	MV0337								
34 -	MV0842	GG0166							
35 -	GG0169								
42 -	MV0575								
48 -	MV0330								
59 -	MV0563								

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

CARTAO - 7 PASSO - 2

LINHA	AMOSTRAS PLOTADAS						
71 -	MV0507						
72 -	MV0440						
73 -	MV0438						
74 -	AM0072						
77 -	FB0046	FB0051	AM0053				
78 -	AM0063						
84 -	GG0319						
87 -	GG03J1						
89 -	MV0666	GG0290	GG0292				
90 -	GG0448						
91 -	GG0317						
92 -	GG0289						
96 -	GG0288						
100 -	GG0284						
103 -	MV0511						
1 -	MV0398	MV0416	GG0300				
2 -	GG0306	GG0243					
3 -	MV0420						
4 -	GG0224	GG0249	MV0859				
6 -	MV0413	MV0432					
7 -	GG0324						
9 -	JL0499						
10 -	GG0338						
12 -	GG0342	GG0523	GG0522				
13 -	GG0526						
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528
15 -	MV0755	MV0724	MV0731	MV0737	GG0537		
16 -	MV0751	MV0759	MV0729				
17 -	MV0735						
18 -	MV0764	MV0762	GG0295				
21 -	MV0777	MV0780					
22 -	MV0355						
25 -	MV0343						
29 -	MV0752						
30 -	MV0337						
31 -	MV0342						
32 -	MV0335						
33 -	MV0333						
34 -	MV0842	GG0166					
35 -	GG0149						
42 -	MV0575						
48 -	MV0830						
59 -	MV0563						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLUTADAS						CARTAO - 8	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AM0072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0566	GG0290	GG0292					
90 -	GG0448							
91 -	GG0317							
92 -	GG0299							
96 -	GG0288							
100 -	GG0284							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JLD499							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0777	MV0780						
22 -	MV0355							
25 -	MV0343							
28 -	MV0792							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0333							
34 -	MV0942	GG0166						
35 -	GG0169							
42 -	MV0575							
48 -	MV0830							
59 -	MV0563							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS						CAPTAO - 9	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AM0072							
77 -	FB0066	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0221							
89 -	MV0654	GG0290	GG0292					
90 -	GG0444							
91 -	GG0317							
92 -	GG0289							
96 -	GG0289							
100 -	GG0284							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0490							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0757	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0777	MV0780						
22 -	MV0355							
25 -	MV0343							
26 -	MV0792							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0337							
34 -	MV0842	GG0166						
35 -	GG0169							
42 -	MV0575							
48 -	MV0830							
59 -	MV0563							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 10 PASSO - 2

71 -	MV0507						
72 -	MV0440						
73 -	MV0438						
74 -	AM0072						
77 -	FB0046	FB0051	AM0053				
78 -	AM0063						
84 -	GG0310						
87 -	GG0331						
89 -	MV0666	GG0290	GG0292				
90 -	GG0448						
91 -	GG0317						
92 -	GG0289						
96 -	GG0288						
100 -	GG0284						
103 -	MV0611						
1 -	MV0398	MV0416	GG0300				
2 -	GG0306	GG0243					
3 -	MV0420						
4 -	GG0274	GG0249	MV0859				
6 -	MV0413	MV0432					
7 -	GG0324						
9 -	JL0490						
10 -	GG0338						
12 -	GG0342	GG0523	GG0522				
13 -	GG0526						
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528
15 -	MV0755	MV0724	MV0731	MV0737	GG0537		
16 -	MV0741	MV0759	MV0729				
17 -	MV0735						
18 -	MV0762	MV0764	GG0295				
21 -	MV0760	MV0777					
22 -	MV0355						
25 -	MV0343						
28 -	MV0792						
30 -	MV0337						
31 -	MV0342						
32 -	MV0335						
33 -	MV0333						
34 -	MV0842	GG0166					
35 -	GG0169						
42 -	MV0575						
48 -	MV0830						
59 -	MV0563						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141-170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLANTADAS						CARTAO - 11	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0439							
74 -	AM0072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0310							
87 -	GG0331							
89 -	MV0666	GG0290	GG0292					
90 -	GG0448							
91 -	GG0317							
92 -	GG0230							
96 -	GG0288							
100 -	GG0284							
103 -	MV0511							
1 -	MV0308	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0859					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0495							
10 -	GG0338							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0777	MV0780						
22 -	MV0355							
25 -	MV0343							
28 -	MV0702							
30 -	MV0737							
31 -	MV0342							
32 -	MV0335							
33 -	MV0335							
34 -	MV0342	GG0166						
35 -	GG0149							
42 -	MV0575							
48 -	MV0850							
59 -	MV0563							

S E A G

PROJETO - SUDFLPA

CENTRO DE CUSTO - 9141-170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS						CARTAO - 12	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AM0077							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0666	GG0290	GG0292					
90 -	GG0448							
91 -	GG0717							
92 -	GG0289							
96 -	GG0288							
100 -	GG0284							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0249	MV0856					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0409							
10 -	GG0338							
12 -	GG0347	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0740	MV0777						
22 -	MV0355							
25 -	MV0743							
28 -	MV0742							
30 -	MV0337							
31 -	MV0342							
32 -	MV0345							
33 -	MV0333							
34 -	MV0342	GG0166						
35 -	GG0166							
42 -	MV0575							
48 -	MV0930							
59 -	MV0563							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 13 PASSO - 2

71 -	MV0507						
72 -	MV0440						
73 -	MV0438						
74 -	AM0072						
77 -	FB0046	FB0051	AM0053				
78 -	AM0053						
84 -	GG0319						
87 -	GG0331						
89 -	MV0666	GG0290	GG0292				
90 -	GG0448						
91 -	GG0317						
92 -	GG0289						
96 -	GG0288						
100 -	GG0284						
103 -	MV0611						
1 -	MV0398	MV0416	GG0300				
2 -	GG0306	GG0243					
3 -	MV0420						
4 -	GG0224	GG0249	MV0859				
6 -	MV0413	MV0432					
7 -	GG0324						
9 -	JL0499						
10 -	GG0338						
12 -	GG0342	GG0523	GG0522				
13 -	GG0526						
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528
15 -	MV0755	MV0724	MV0731	MV0737	GG0537		
16 -	MV0761	MV0759	MV0729				
17 -	MV0735						
18 -	MV0764	MV0762	GG0295				
21 -	MV0780	MV0777					
22 -	MV0355						
25 -	MV0343						
28 -	MV0792						
30 -	MV0337						
31 -	MV0342						
32 -	MV0335						
33 -	MV0333						
34 -	MV0342	GG0166					
35 -	GG0160						
42 -	MV0575						
48 -	MV0830						
59 -	MV0563						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS						CARTAO - 14	PASSO - 2
71 -	MV0507							
72 -	MV0440							
73 -	MV0438							
74 -	AM0072							
77 -	FB0046	FB0051	AM0053					
78 -	AM0063							
84 -	GG0319							
87 -	GG0331							
89 -	MV0666	GG0290	GG0292					
90 -	GG0448							
91 -	GG0317							
92 -	GG0289							
96 -	GG0288							
100 -	GG0284							
103 -	MV0611							
1 -	MV0398	MV0416	GG0300					
2 -	GG0306	GG0243						
3 -	MV0420							
4 -	GG0224	GG0240	MV0858					
6 -	MV0413	MV0432						
7 -	GG0324							
9 -	JL0400							
10 -	GG0328							
12 -	GG0342	GG0523	GG0522					
13 -	GG0526							
14 -	MV0752	MV0740	MV0747	MV0745	MV0741	GG0532	GG0528	
15 -	MV0755	MV0724	MV0731	MV0737	GG0537			
16 -	MV0761	MV0759	MV0729					
17 -	MV0735							
18 -	MV0764	MV0762	GG0295					
21 -	MV0780	MV0777						
22 -	MV0355							
25 -	MV0343							
28 -	MV0702							
30 -	MV0337							
31 -	MV0342							
32 -	MV0335							
33 -	MV0333							
34 -	MV0842	GG0166						
35 -	GG0170							
42 -	MV0575							
48 -	MV0930							
59 -	MV0563							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 15 PASSO - 2

71 -	MV0507						
72 -	MV0440						
73 -	MV0438						
74 -	AM0077						
77 -	FB0046	FB0051	AM0053				
78 -	AM0063						
84 -	GG0319						
87 -	GG0331						
89 -	MV0688	GG0290	GG0292				
90 -	GG0448						
91 -	GG0317						
92 -	GG0289						
96 -	GG0288						
100 -	GG0284						
103 -	MV0611						
1 -	MV0398	MV0416	GG0300				
2 -	GG0306	GG0243					
3 -	MV0420						
4 -	GG0224	GG0249	MV0859				
6 -	MV0413	MV0432					
7 -	GG0324						
9 -	JL0489						
10 -	GG0378						
12 -	GG0342	GG0523	GG0522				
13 -	GG0526						
14 -	MV0752	MV0749	MV0747	MV0745	MV0741	GG0532	GG0528
15 -	MV0755	MV0724	MV0731	MV0737	GG0537		
16 -	MV0761	MV0759	MV0729				
17 -	MV0735						
18 -	MV0762	MV0764	GG0295				
21 -	MV0777	MV0780					
22 -	MV0355						
25 -	MV0343						
28 -	MV0792						
30 -	MV0337						
31 -	MV0342						
32 -	MV0335						
33 -	MV0333						
34 -	MV0842	GG0166					
35 -	GG0169						
42 -	MV0575						
48 -	MV0830						
59 -	MV0563						

- Amostras coincidentes

- Folhas 1 a 14 do computador

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 1

S E A G

PROJETO - SUMI PA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 1 - PASSO - 2

33 - JDU095 MVO465
18 - MVO762 MVO764

CPRM. MAPA DE LOCALIZACAO

20.12.74 FLA. 2

S. E. A. G.

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DAOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CARTAO - 2 PASSO - 2

9	JL0649	JL0650
22	JD0618	JD0618
18	MV0762	MV0764

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 3

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CARTAO - 4 PASSO - 2

9 - JL0649 JL0650
18 - MV0764 MV0762

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CARTAO - S. PASSO - 2

5 -	JD0535A	JD0535
9 -	JL0649	JL0650
22 -	JD0818	JD0818
32 -	JD0024	JD0021
33 -	JD0025	MV0465
89 -	MV0666	GG0290
18 -	MV0764	MV0762
21 -	MV0777	MV0790

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 5

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A P T A O - 6 PASSO - 2

5 -	JD0535	JD0535A
9 -	JL0649	JL0650
21 -	MV0777	MV0780

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A P T A O - 7 . P A S S O - 2

32 -	JD0021	JD0024
33 -	JD0025	MV0465

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 7

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - B. PASSO - 2

9 -	JL0649	JL0650
32 -	JD0021	JD0024
33 -	JD0085	MV0465
18 -	MV0764	MV0762
21 -	MV0777	MV0780

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 8

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CARTAO - PASSO - 2

33 - JD0085 MV0465

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 9

S E A G

PROJETO - SUDEFPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 10 PASSO - 2

33 -	JD0085	MV0465
18 -	MV0762	MV0764
21 -	MV0780	MV0777

CPRM MAPA DE LOCALIZACAO

20-12-74 FLA. 9

S E A G

PROJETO - SUDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CARTAO - 10 PASSO - 2

33 -	JD0085	MV0465
18 -	MV0762	MV0764
21 -	MV0780	MV0777

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 11

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A P T A D O - 12 - PASSO - 2

9 - JL0649 JL0650
33 - JD0085 MV0465

CPPM MAPA DE LOCALIZACAO

20.12.74 FLA. 12

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CARTAO - 13 PASSO - 2

33 - JD0085 MVO465

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 13

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 14 . P A S S O - 2

5 -	JD0535	JD0535A
22 -	JD0818	JD0818
32 -	JD0021	JD0024

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CARTAO - 15 PASSO - 2

9 -	JL0649	JL0650
32 -	JD0021	JD0024
33 -	JD0095	MV0465
89 -	MV0666	GG0290
18 -	MV0762	MV0764

FOLHA DE SÃO PAULO

- Amostras plotadas

- Folhas 1 a 15 do computador

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 1	PASSO - 4
86 -	GG0072							
88 -	MC0108A	MV0198B	MV0195A	MV0195B				
90 -	GG0024	GG0023						
92 -	MV0129							
93 -	MV0117B	MV0117A						
94 -	MV0118	MV0216						
95 -	MV0192							
96 -	GG0556	MV0191						
97 -	MV0224	MV0222						
98 -	GG0568							
99 -	MV0102B	MV0100	MV0102A	MV0788				
100 -	GG0013	GG0580						
101 -	GG0064							
102 -	GG0056	GG0048	GG0047	GG0123	GG0083			
103 -	MV0113	GG0572						
105 -	JD0863							
82 -	MV0378							
83 -	GG0207	MV0265	GG0137					
84 -	GG0235							
85 -	MV0258	GG0112						
86 -	MV0424							
87 -	GG0213							
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153		
89 -	MV0279	MV0308						
91 -	MV0292	MV0281	MV0298	MV0329	GG0150			
92 -	GG0107							
93 -	MV0215	MV0290						
94 -	GG0158	MV0252	GG0126	GG0145				
95 -	MV0250							
97 -	MV0285	GG0110	GG0130					
98 -	GG0103							
99 -	GG0160	MV0359	GG0216					
100 -	MV0286	MV0391						
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192	
103 -	GG0120	GG0197	GG0201				MV0387	
104 -	MV0356							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 3	PASSO - 4
86 -	GG0072							
88 -	MC0198A	MV0198B	MV0195A	MV0195B				
90 -	GG0024	GG0023						
92 -	MV0129							
93 -	MV0117A	MV0117B						
94 -	MV0118	MV0216						
95 -	MV0192							
96 -	GG0556	MV0191						
97 -	MV0274	MV0222						
98 -	GG0568							
99 -	MV0100	MV0102B	MV0102A	MV0788				
100 -	GG0013	GG0580						
101 -	GG0064							
102 -	GG0056	GG0047	GG0048	GG0123	GG0083			
103 -	MV0113	GG0572						
105 -	J00863							
82 -	MV0378							
83 -	GG0207	MV0265	GG0137					
84 -	GG0235							
85 -	MV0258	GG0112						
86 -	MV0424							
87 -	GG0213							
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153		
89 -	MV0279	MV0308						
91 -	MV0292	MV0281	MV0298	MV0329	GG0150			
92 -	GG0107							
93 -	MV0215	MV0290						
94 -	GG0158	MV0252	GG0126	GG0145				
95 -	MV0250							
97 -	MV0285	GG0110	GG0130					
98 -	GG0103							
99 -	GG0160	MV0359	GG0216					
100 -	MV0286	MV0391						
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192	
103 -	GG0120	GG0197	GG0201				MV0387	
104 -	MV0356							

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 4	PASSO - 4
86 -	GG0072						
88 -	MC0198A	MV0198B	MV0195B	MV0195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117B	MV0117A					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MV0100	MV0102B	MV0102A	MV0788			
100 -	GG0013	GG0580					
101 -	GG0064						
102 -	GG0056	GG0047	GG0048	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	JD0863						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0329	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0285	GG0110	GG0130				
98 -	GG0103						
99 -	GG0160	MV0359	GG0216				
100 -	MV0286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S					CARTAO - 5	PASSO - 4
86 -	GG0072						
88 -	MC0198A	MV0198B	MV0195B	MV0195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117A	MV0117B					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MV0102A	MV0100	MV0102B	MV0788			
100 -	GG0013	GG0580					
101 -	GG0064						
102 -	GG0056	GG0048	GG0047	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	J00863						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0329	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0285	GG0110	GG0130				
98 -	GG0103						
99 -	GG0160	MV0359	GG0216				
100 -	MV0286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SECIMENTOS DE COFFENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS							CARTAO - 6	PASSO - 4
86 -	GG0072								
88 -	MCO198A	MV0198B	MV0195B	MVC195A					
90 -	GG0024	GG0023							
92 -	MV0129								
93 -	MV0117B	MV0117A							
94 -	MV0118	MV0216							
95 -	MV0192								
96 -	GG0556	MV0191							
97 -	MV0224	MV0222							
98 -	GG0568								
99 -	MV0100	MV0102B	MV0102A	MVC78B					
100 -	GG0013	GG0580							
101 -	GG0064								
102 -	GG0056	GG0047	GG0048	GG0123	GG0083				
103 -	MV0113	GG0572							
105 -	JD0863								
82 -	MV0378								
83 -	GG0207	MV0265	GG0137						
84 -	GG0235								
85 -	MV0258	GG0112							
86 -	MV0424								
87 -	GG0213								
88 -	MV0297	MV0305	MV0301	MVC272	GG0157	GG0153			
89 -	MV0279	MV0308							
91 -	MV0292	MV0281	MV0298	MV0329	GG0150				
92 -	GG0107								
93 -	MV0215	MV0290							
94 -	GG0158	MV0252	GG0126	GG0145					
95 -	MV0250								
97 -	MV0285	GG0110	GG0130						
98 -	GG0103								
99 -	GG0150	MV0359	GG0216						
100 -	MV0286	MV0391							
101 -	GG0591	GG0097	GG0092	MVC234	MV0369	GG0198	GG0192	MV0387	
103 -	GG0120	GG0197	GG0201						
104 -	MV0356								

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 7	PASSO - 4
86 -	GG0072						
88 -	MC0198A	MV0198B	MV0195B	MV0195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117B	MV0117A					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MV0102B	MV0100	MV0102A	MV0788			
100 -	GG0013	GG0530					
101 -	GG0064						
102 -	GG0056	GG0048	GG0047	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	JD0863						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0329	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0285	GG0110	GG0130				
98 -	GG0103						
99 -	GG0160	MV0359	GG0216				
100 -	MV0286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 8 PASSO - 4

86 -	GG0072							
88 -	MV0198B	MC0198A	MV0195B	MV0195A				
90 -	GG0024	GG0023						
92 -	MV0129							
93 -	MV0117B	MV0117A						
94 -	MV0118	MV0216						
95 -	MV0192							
96 -	GG0556	MV0191						
97 -	MV0224	MV0222						
98 -	GG0568							
99 -	MV0102B	MV0100	MV0102A	MV0788				
100 -	GG0013	GG0580						
101 -	GG0084							
102 -	GG0056	GG0048	GG0047	GG0123	GG0083			
103 -	MV0113	GG0572						
105 -	JDC863							
82 -	MV0378							
83 -	GG0207	MV0265	GG0137					
84 -	GG0235							
85 -	MV0258	GG0112						
86 -	MV0424							
97 -	GG0213							
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153		
89 -	MV0279	MV0308						
91 -	MV0292	MV0281	MV0298	MV0329	GG0150			
92 -	GG0107							
93 -	MV0215	MV0290						
94 -	GG0158	MV0252	GG0126	GG0145				
95 -	MV0250							
97 -	MV0285	GG0110	GG0130					
98 -	GG0103							
99 -	GG0160	MV0359	GG0216					
100 -	MV0286	MV0391						
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192	MV0387
103 -	GG0170	GG0197	GG0201					
104 -	MV0356							

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TCTAL

LINHA	AMOSTRAS PLOTADAS					CARTAO - 9	PASSO - 4
86 -	GG0072						
88 -	MC0198A	MV0198B	MV0195B	MVC195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117B	MV0117A					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MV0102B	MV0102A	MV0100	MV0788			
100 -	GG0013	GG0580					
101 -	GG0064						
102 -	GG0056	GG0048	GG0047	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	JD0863						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0329	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0289	GG0110	GG0130				
98 -	GG0103						
99 -	GG0150	MV0359	GG0216				
100 -	MV0286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	A M O S T R A S P L O T A D A S						CARTAO - 11	PASSO - 4
86 -	GG0072							
88 -	MV0198B	MC0198A	MV0195B	MV0155A				
90 -	GG0024	GG0023						
92 -	MV0129							
93 -	MV0117B	MV0117A						
94 -	MV011E	MV0216						
95 -	MV0192							
96 -	GG0556	MV0191						
97 -	MV0224	MV0222						
98 -	GG0568							
99 -	MV0100	MV0102B	MV0102A	MV0788				
100 -	GG0013	GG0580						
101 -	GG0064							
102 -	GG0056	GG0047	GG0048	GG0123	GG0083			
103 -	MV0113	GG0572						
105 -	JD0863							
82 -	MV0378							
83 -	GG0207	MV0265	GG0137					
84 -	GG0235							
85 -	MV0258	GG0112						
86 -	MV0424							
87 -	GG0213							
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153		
89 -	MV0279	MV0308						
91 -	MV0292	MV0281	MV0298	MV0329	GG0150			
92 -	GG0107							
93 -	MV0215	MV0290						
94 -	GG015P	MV0252	GG0126	GG0145				
95 -	MV0250							
97 -	MV0285	GG0110	GG0130					
98 -	GG0103							
99 -	GG0160	MV0359	GG0216					
100 -	MV0286	MV0391						
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192	
103 -	GG0120	GG0197	GG0201				MV0387	
104 -	MV0356							

S E A G

PROJETO - SLDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 12 PASSO - 4

86 -	GG0072						
88 -	MV0198B	MC0198A	MV0195B	MVC195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117A	MV0117B					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MV0100	MV0102A	MV0102B	MVC78E			
100 -	GG0013	GG0580					
101 -	GG0064						
102 -	GG0056	GG0047	GG0048	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	JDOR63						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0325	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0235	GG0110	GG0130				
98 -	GG0103						
99 -	GG0160	MV0359	GG0216				
100 -	MV0286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS							CARTAO - 13	PASSO - 4
86 -	GG0072								
88 -	MC0198A	MV0198B	MV0195B	MV0195A					
90 -	GG0024	GG0023							
92 -	MV0129								
93 -	MV0117B	MV0117A							
94 -	MV0118	MV0216							
95 -	MV0192								
96 -	GG0556	MV0191							
97 -	MV0224	MV0222							
98 -	GG0568								
99 -	MV0100	MV0102A	MV0102B	MV0788					
100 -	GG0013	GG0590							
101 -	GG0064								
102 -	GG0056	GG0047	GG0048	GG0123	GG0083				
103 -	MV0113	GG0572							
105 -	JDC863								
82 -	MV0378								
83 -	GG0207	MV0265	GG0137						
84 -	GG0234								
85 -	MV0258	GG0112							
86 -	MV0424								
87 -	GG0213								
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153			
89 -	MV0279	MV0308							
91 -	MV0292	MV0281	MV0298	MV0329	GG0150				
92 -	GG0107								
93 -	MV0215	MV0290							
94 -	GG0158	MV0252	GG0126	GG0145					
95 -	MV0250								
97 -	MV0285	GG0110	GG0130						
98 -	GG0103								
99 -	GG0160	MV0359	GG0216						
100 -	MV0285	MV0391							
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192	MV0387	
103 -	GG0120	GG0197	GG0201						
104 -	MV0356								

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

CARTAO - 14 PASSO - 4

LINHA	AMOSTRAS PLOTADAS						
86 -	GG0072						
88 -	MV0198B	MC0198A	MV0195B	MV0195A			
90 -	GG0024	GG0023					
92 -	MV0129						
93 -	MV0117B	MV0117A					
94 -	MV0118	MV0216					
95 -	MV0192						
96 -	GG0556	MV0191					
97 -	MV0224	MV0222					
98 -	GG0568						
99 -	MVJ102B	MV0102A	MV0100	MV0788			
100 -	GG0013	GG0580					
101 -	GG0064						
102 -	GG0056	GG0047	GG0048	GG0123	GG0083		
103 -	MV0113	GG0572					
105 -	JD0863						
82 -	MV0378						
83 -	GG0207	MV0265	GG0137				
84 -	GG0235						
85 -	MV0258	GG0112					
86 -	MV0424						
87 -	GG0213						
88 -	MV0297	MV0305	MV0301	MV0272	GG0157	GG0153	
89 -	MV0279	MV0308					
91 -	MV0292	MV0281	MV0298	MV0329	GG0150		
92 -	GG0107						
93 -	MV0215	MV0290					
94 -	GG0158	MV0252	GG0126	GG0145			
95 -	MV0250						
97 -	MV0285	GG0110	GG0130				
98 -	GG0103						
99 -	GG0160	MV0359	GG0216				
100 -	MVJ286	MV0391					
101 -	GG0591	GG0097	GG0092	MV0234	MV0369	GG0198	GG0192
103 -	GG0120	GG0197	GG0201				MV0387
104 -	MV0356						

DADOS ANALITICOS DE SEDIMENTOS DE COPRENTE - AREA TOTAL

LINHA

A M O S T R A S P L U T A D A S

CARTAO - 15 PASSO - 5

- 11 - MV0632
- 12 - MV0639
- 14 - MV0644
- 16 - MV0663
- 17 - MV0660
- 19 - MV0627
- 11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 14 PASSO - 5

- 11 - MV0632
- 12 - MV0639
- 14 - MV0644
- 16 - MV0663
- 17 - MV0660
- 19 - MV0627
- 11 - MV0631

C . O . G . C . I . C

C . O . G . C . I . C

- Amostras coincidentes

- Folhas 1 a 10 do computador

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 1

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - APEA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 4 PASSO - 4

93 -	MV01176	MV0117A	
99 -	MV0100	MV0102B	MV0102A

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 2

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C. A R T A O -	S	PASSO -	4
88 -	MCO198A	MV0198B	MV0195B	MV0195A
99 -	MV0102A	MV0100	MV0102B	
102 -	GG0048	GG0047		

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 3

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA	C A R T A O - 6	P A S S O - 4
88 -	MC0198A	MV0198B
93 -	MV0117B	MV0117A
99 -	MV0100	MV0102B MV0102A
102 -	GG0047	GG0048

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 4

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA - C A P T A D O - 8 PASSO - 4

88 - MV0198B MC0198A MV0195B MVC195A

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 5

S E A G

PROJETO - SLDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 10 PASSO - 4

93 - MV0117B MV0117A
102 - GG0047 GG0048

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 6

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA	CARTAO - 11	PASSO - 4
88 -	MV0195B	MV0195A
93 -	MV0117B	MV0117A
99 -	MV0100	MV0102B MV0102A
102 -	GG0047	GG0048

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 7

S E A G

PROJETO - SUOFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CAPTADO - 12 PASSO - 4

88 - MV0195B MV0195A

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 8

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA C A R T A O - 13 PASSO - 4

93 -	MVC117H	MV0117A
99 -	MV0102A	MV0102B
102 -	GG0047	GG0048

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 9

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

A M O S T R A S C O I N C I D E N T E S

LINHA CARTA D - 14 PASSO - 4

102 - GG0047 GG0048

CPRM MAPA DE LOCALIZACAO
S E A G

PROJETO - SUDALPA

20.12.74

FLA. 10

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

AMOSTRAS COINCIDENTES

LINHA CARTAO - 15 PASSO - 4

88 - MVO195A MVO195B

FOLHA DE CURITIBA

- Amostras plotadas

- Folhas 1 a 15 do computador

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO -	L	PASSO -	1
1 -	FB0320	GG0463	GG0550	GG0547				
2 -	AM0226	FB0215	GG0545					
3 -	FB0241	GG0471	GG0470	GG0469				
4 -	AM0223	JLG647	AM0215	FB0234				
5 -	AM0222	AM0214	FB0236					
6 -	GG0479	GG0439						
8 -	AM0213							
9 -	AM0209							
10 -	GG0500							
11 -	GG0492	GG0501						
12 -	GG0497	GG0493						
13 -	MU0682	GG0509						
15 -	GG0510							
16 -	MU0680							
18 -	GG0506	GG0512	MV0624					
19 -	MV0714	GG0505						
20 -	MV0709	GG0503						
23 -	MV0700	MV0525						
24 -	MV0699	MV0684						
25 -	MV0694							

CPRM

MAPA DE LOCALIZACAO

20.12.74

FLA. 21

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 2

PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MU0682	GG0509		
15 -	GG0510			
16 -	MU0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0769	GG0503		
23 -	MV0700	MV0625		
24 -	MV0659	MV0684		
25 -	MV0694			

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 3

S E A O

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 3 PASSO - 1

1 -	FB0320	GG0463	GG0550	CC0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	CC0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	CC0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MU0682	GG0509		
15 -	GG0510			
16 -	MU0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0699	MV0684		
25 -	MV0694			

CPRM

MAPA DE LOCALIZACAO

20.12.74 FLA. 41

S E A G

PROJETO - SUDFLPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO - 4	PASSO - 1
1 -	FB0320	GG0463	GG0550	GG0547		
2 -	AM0225	FB0215	GG0545			
3 -	FB0241	GG0471	GG0470	GG0466		
4 -	AMJ223	JL0647	AM0215	FB0234		
5 -	AM0222	AM0214	FB0236			
6 -	GG0479	GG0439				
8 -	AM0213					
9 -	AM0209					
10 -	GG0500					
11 -	GG0402	GG0501				
12 -	GG0447	GG0493				
13 -	MU0602	GG0509				
15 -	GG0510					
16 -	MU0600					
18 -	GG0506	GG0512	MV0624			
19 -	MV0714	GG0505				
20 -	MV0709	GG0503				
23 -	MV0700	MV0625				
24 -	MV0699	MV0684				
25 -	MV0694					

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 5

PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GC0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MV0682	GG0509		
15 -	GG0510			
16 -	MV0680			
18 -	GG0505	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0699	MV0684		
25 -	MV0694			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO - 6: PASSO - 1
1 -	FB0320	GC0463	GC0550	GC0547	
2 -	AM0226	FB0215	GC0545		
3 -	FB0241	GC0471	GC0470	GC0469	
4 -	AM0223	JL0547	AM0215	FB0236	
5 -	AM0222	AM0214	FB0236		
6 -	GC0479	GC0439			
8 -	AM0213				
9 -	AM0209				
10 -	GC0500				
11 -	GC0492	GC0501			
12 -	GC0497	GC0493			
13 -	MU0602	GC0509			
15 -	GC0510				
16 -	MU0600				
18 -	GC0506	GC0512	MV0624		
19 -	MV0714	GC0505			
20 -	MV0709	GC0503			
23 -	MV0700	MV0625			
24 -	MV0659	MV0604			
25 -	MV0684				

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO - 7	PASSO - 1
1 -	FB0320	GC0463	GG0550	CC0547		
2 -	AM0226	FB0215	GG0545			
3 -	FB0241	GC0471	GG0470	GG0469		
4 -	AM0223	JL0647	AM0215	FB0234		
5 -	AM0222	AM0214	FB0236			
6 -	GG0479	GG0439				
8 -	AM0213					
9 -	AM0209					
10 -	GG0500					
11 -	GG0492	GG0501				
12 -	GG0497	GG0493				
13 -	MU0682	GG0509				
15 -	GG0510					
16 -	MU0680					
18 -	GG0506	GG0512	MV0624			
19 -	MV0714	GG0505				
20 -	MV0709	GG0503				
23 -	MV0700	MV0525				
24 -	MV0599	MV0584				
25 -	MV0694					

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO - 8	PASSO - 1
1 -	FB0320	GG0463	GG0550	GG0547		
2 -	AM0226	FB0215	GG0545			
3 -	FB0241	GG0471	GG0470	GG0469		
4 -	AM0223	JL0547	AM0215	FB0236		
5 -	AM0222	AM0214	FB0236			
6 -	GG0479	GG0439				
8 -	AM0213					
9 -	AM0209					
10 -	GG0500					
11 -	GG0492	GG0501				
12 -	GG0447	GG0493				
13 -	MU0642	GG0509				
15 -	GG0510					
16 -	MU0600					
18 -	GG0506	GG0512	MV0624			
19 -	MV0714	GG0505				
20 -	MV0709	GG0503				
23 -	MV0700	MV0625				
24 -	MV0659	MV0684				
25 -	MV0694					

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLANTADAS				CARTAO - 9	PASSO - 1
1 -	FB0320	GG0463	GG0550	GG0547		
2 -	AM0226	FB0215	GG0545			
3 -	FB0241	GG0471	GG0470	GG0469		
4 -	AM0223	JL0647	AM0215	FB0234		
5 -	AM0222	AM0214	FB0236			
6 -	GG0479	GG0439				
8 -	AM0213					
9 -	AM0209					
10 -	CC0500					
11 -	GG0492	GG0501				
12 -	GG0497	GG0493				
13 -	MU0682	GG0509				
15 -	GG0510					
16 -	MU0680					
18 -	GG0506	GG0512	MV0624			
19 -	MV0714	GG0505				
20 -	MV0709	GG0503				
23 -	MV0700	MV0625				
24 -	MV0689	MV0684				
25 -	MV0694					

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 10 PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MV0682	GG0509		
15 -	GG0510			
16 -	MV0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0706	GG0503		
23 -	MV0700	MV0625		
24 -	MV0689	MV0684		
25 -	MV0684			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA	AMOSTRAS PLOTADAS				CARTAO - 11	PASSO - 1
1 -	FB0320	GC0463	GGC550	GG0547		
2 -	AM0226	FB0215	GG0545			
3 -	FB0241	GC0471	GG0470	GC0465		
4 -	AM0223	JL0647	AM0215	FB0236		
5 -	AM0222	AM0214	FB0236			
6 -	GG0479	GG0439				
8 -	AM0213					
9 -	AM0209					
10 -	GG0500					
11 -	GG0492	GG0501				
12 -	GG0497	GG0493				
13 -	MV0682	GG0509				
15 -	GG0510					
16 -	MV0680					
18 -	GG0505	GG0512	MV0624			
19 -	MV0714	GG0505				
20 -	MV0704	GG0503				
23 -	MV0700	MV0625				
24 -	MV0699	MV0604				
25 -	MV0694					

DADOS ANALITICOS DE SONDAMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 12 PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AP0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MU0682	GG0509		
15 -	GG0510			
16 -	MU0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0699	MV0684		
25 -	MV0694			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINDA

AMOSTRAS PLOTADAS

CARTAO - 13 PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0474	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0497	GG0493		
13 -	MU0682	GG0509		
15 -	GG0510			
16 -	PV0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0699	MV0684		
25 -	MV0694			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 14 PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JLU647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0402	GG0501		
12 -	GG0407	GG0493		
13 -	MU0602	GG0509		
15 -	GG0510			
16 -	MU0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0609	MV0684		
25 -	MV0694			

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 15 PASSO - 1

1 -	FB0320	GG0463	GG0550	GG0547
2 -	AM0226	FB0215	GG0545	
3 -	FB0241	GG0471	GG0470	GG0469
4 -	AM0223	JL0647	AM0215	FB0234
5 -	AM0222	AM0214	FB0236	
6 -	GG0479	GG0439		
8 -	AM0213			
9 -	AM0209			
10 -	GG0500			
11 -	GG0492	GG0501		
12 -	GG0447	GG0493		
13 -	MU0682	GG0509		
15 -	GG0510			
16 -	MU0680			
18 -	GG0506	GG0512	MV0624	
19 -	MV0714	GG0505		
20 -	MV0709	GG0503		
23 -	MV0700	MV0625		
24 -	MV0659	MV0684		
25 -	MV0604			

FOLHA DE IGUAPE

- Amostras plotadas

- Folhas 1 a 13 do computador

DADOS ANALITICOS DE SECIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLOTADAS

CARTAO - 1 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0670
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SECIMENTOS DE COPRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 2 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE COPRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 3 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 4 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

CCCCC

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 5 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 6 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0653
17 - MV0660
19 - MV0627
11 - MV0631

C
C
C
C
C

C
C
C
C
C

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 7

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

AMOSTRAS PLANTADAS

CARTAO - 7 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 8 PASSO - 5

- 11 - MV0632
- 12 - MV0639
- 14 - MV0644
- 16 - MV0663
- 17 - MV0660
- 19 - MV0627
- 11 - MV0631

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 9

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 9 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 10 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

C
C
C
C
C
C
C
C
C
C

CPRM MAPA DE LOCALIZACAO

20.12.74 FLA. 11

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 11 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0650
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 12 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

DADOS ANALITICOS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

LINHA

A M O S T R A S P L O T A D A S

CARTAO - 13 PASSO - 5

11 - MV0632
12 - MV0639
14 - MV0644
16 - MV0663
17 - MV0660
19 - MV0627
11 - MV0631

0000000000

- Anexo XXVIII: Arquivo geral do Projeto Sudelpa

- Coordenadas reais de cada amostra compreendendo as folhas 1 a 34 do computador.

865 PONTOS -

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA764	JR0048 ✓	24 30 00 S	49 15 00				164	42	24 28 48 S	49 10 10	685526	7291355	51 ✓
IAA765	JR0049 ✓	24 30 00 S	49 15 00				168	50	24 28 35 S	49 10 03	685726	7291755	51 ✓
IAA766	JR0060 ✓	24 30 00 S	49 15 00				42	20	24 29 27 S	49 13 46	670426	7290255	51 ✓
IAA767	JR0070 ✓	24 45 00 S	49 15 00				178	494	24 31 34 S	49 09 55	685873	7286265	51 ✓
IAA768	JR0079 ✓	24 30 00 S	49 15 00 ✓				46	32	24 29 07 S	49 13 39	679626	7290855	51 ✓
IAA769	IP0066 ✓	24 45 00 S	48 30 00				455	410	24 33 40 S	48 16 45	775555	7280887	51 ✓
IAA770	IP0067	24 30 00 S	49 00 00				196	70	24 28 02 S	48 54 14	712464	7292411	51
IAA771	IP0068	24 30 00 S	49 00 00				11	38	24 28 58 S	48 59 41	703214	7290811	51 ✓
IAA772	IP0069	24 30 00 S	49 00 00				23	47	24 28 43 S	48 59 20	703814	7291261	51 ✓
IAA773	IP0070	24 30 00 S	49 00 00 ✓				81	79	24 27 50 S	48 57 38	706714	7292861	51 ✓
IAA774	UP0071	24 30 00 S	49 15 00				292	53	24 28 28 S	49 06 23	691926	7291905	51
IAA775	IP0085	24 30 00 S	49 15 00				135	190	24 24 48 S	49 11 05	684076	7298755	51
IAA776	IP0104	24 30 00 S	49 00 00 ✓				242	80	24 27 44 S	48 52 53	714764	7292911	51 ✓
IAA777	IP0105	24 30 00 S	49 00 00				242	80	24 27 44 S	48 52 53	714764	7292911	51
IAA778	GG0013	24 00 00 S	47 30 00				51	87	23 57 40 S	47 28 27	248207	7347830	45
IAA779	GG0023	24 00 00 S	47 30 00				315	303	23 51 57 S	47 20 34	261407	7358630	45
IAA780	GG0024	24 00 00 S	47 30 00				308	310	23 51 45 S	47 20 46	261057	7358980	45
IAA791	GG0047	24 00 00 S	47 45 00				363	58	23 58 37 S	47 34 16	238361	7345906	45
IAA782	GG0048	24 00 00 S	47 45 00				360	63	23 58 29 S	47 34 22	238211	7346156	45
IAA783	GG0056	24 00 00 S	47 45 00				288	63	23 58 27 S	47 36 29	234611	7346156	45
IAA784	GG0064	24 00 00 S	47 45 00				394	81	23 58 00 S	47 33 21	239911	7347056	45
IAA785	GG0072	24 00 00 S	47 30 00				434	388	23 49 42 S	47 17 02	267357	7362880	45
IAA786	MV0100	24 00 00 S	47 30 00				12	113	23 56 57 S	47 29 35	246257	7349130	45
IAA787	MV0102A	24 00 00 S	47 30 00				12	122	23 56 42 S	47 29 35	246257	7349580	45
IAA788	MV0102B	24 00 00 S	47 30 00				12	122	23 56 42 S	47 29 35	246257	7349580	45
IAA789	MV0113	24 00 00 S	47 30 00				100	31	23 59 13 S	47 27 02	250657	7345030	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S				C O O R D E N A D A S R E A I S							
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA790	MV0117A	24 00 00 S	47 30 00				28	242	23 53 28 S	47 29 03	247057	7355580	45
IAA791	MV0117B	24 00 00 S	47 30 00				28	242	23 53 28 S	47 29 03	247057	7355580	45
IAA792	MV0118	24 00 00 S	47 30 00				34	229	23 53 49 S	47 28 53	247357	7354930	45
IAA793	MV0129	24 00 00 S	47 30 00				292	268	23 52 53 S	47 21 16	260257	7356880	45
IAA794	MV0191	24 00 00 S	47 30 00				404	191	23 55 01 S	47 18 00	265857	7353030	45
IAA795	MV0192	24 00 00 S	47 30 00				385	208	23 54 33 S	47 18 33	264907	7353880	45
IAA796	MV0195A	24 00 00 S	47 30 00				411	355	23 50 35 S	47 17 43	266207	7361230	45
IAA797	MV0195B	24 00 00 S	47 30 00				411	355	23 50 35 S	47 17 43	266207	7361230	45
IAA798	MC0198A	24 00 00 S	47 30 00				364	357	23 50 30 S	47 19 06	263857	7361330	45
IAA799	MV0198B	24 00 00 S	47 30 00				364	357	23 50 30 S	47 19 06	263857	7361330	45
IAA800	MV0215	24 00 00 S	47 15 00				111	244	23 53 26 S	47 11 37	276651	7356110	45
IAA801	MV0216	24 00 00 S	47 30 00				510	225	23 54 08 S	47 14 52	271157	7354730	45
IAA802	JD0019	24 30 00 S	47 30 00				494	433	24 18 30 S	47 15 11	271351	7309735	45
IAA803	JD0021	24 30 00 S	47 30 00				453	431	24 18 33 S	47 16 23	269301	7309635	45
IAA804	JD0024	24 30 00 S	47 30 00				458	425	24 18 42 S	47 16 15	269551	7309335	45
IAA805	JD0028	24 30 00 S	47 30 00				473	419	24 18 53 S	47 15 48	270301	7309035	45
IAA806	JD0037	24 30 00 S	47 30 00				389	300	24 22 04 S	47 18 21	266101	7303085	45
IAA807	JD0039	24 30 00 S	47 30 00				364	274	24 22 45 S	47 19 06	264851	7301785	45
IAA808	JD0040	24 30 00 S	47 30 00				211	488	24 16 53 S	47 23 31	257201	7312485	45
IAA809	JD0041	24 30 00 S	47 30 00				231	459	24 17 41 S	47 22 56	258201	7311035	45
IAA810	JD0048	24 30 00 S	47 30 00				499	457	24 17 52 S	47 15 01	271601	7310935	45
IAA811	JD0056	24 30 00 S	47 30 00				32	265	24 22 51 S	47 28 55	248251	7301335	45
IAA812	JD0061	24 30 00 S	47 30 00				149	197	24 24 44 S	47 25 29	254101	7297935	45
IAA813	JD0075	24 30 00 S	47 30 00				288	125	24 26 45 S	47 21 25	261051	7294335	45
IAA814	JD0076	24 30 00 S	47 30 00				301	114	24 27 03 S	47 21 02	261701	7293785	45
IAA815	JD0085	24 30 00 S	47 30 00				510	408	24 19 11 S	47 14 43	272151	7308485	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA816	J00089	24 30 00 S	47 30 00				434	378	24 19 58 S	47 16 59	268351	7306985	45
IAA817	J00106	24 30 00 S	47 30 00				192	212	24 24 21 S	47 24 13	256251	7298685	45
IAA818	J00119	24 30 00 S	47 30 00				189	539	24 15 30 S	47 24 08	256101	7315035	45
IAA819	J00122	24 30 00 S	47 30 00				275	341	24 20 54 S	47 21 42	260401	7305135	45
IAA820	J00123	24 30 00 S	47 30 00				250	340	24 20 55 S	47 22 26	259151	7305085	45
IAA821	J00127	24 30 00 S	47 30 00				174	363	24 20 15 S	47 24 40	255351	7306235	45
IAA822	J00130	24 30 00 S	48 00 00				104	344	24 20 45 S	47 56 42	201153	7304276	45
IAA823	JL0021	24 30 00 S	47 30 00				324	271	24 22 49 S	47 20 17	262851	7301635	45
IAA824	JL0034	24 30 00 S	47 30 00				283	371	24 20 05 S	47 21 26	260801	7306635	45
IAA825	JL0037	24 30 00 S	47 30 00				31	392	24 19 24 S	47 28 53	248201	7307685	45
IAA826	JL0043	24 30 00 S	47 30 00				124	343	24 20 47 S	47 26 09	252851	7305235	45
IAA827	JL0045	24 30 00 S	47 30 00				125	355	24 20 27 S	47 26 07	252901	7305835	45
IAA828	JL0047	24 30 00 S	47 45 00				500	377	24 20 03 S	47 30 01	246304	7306453	45
IAA829	JL0054	24 30 00 S	47 30 00				42	333	24 21 00 S	47 28 35	248751	7304735	45
IAA830	JL0057	24 30 00 S	47 30 00				96	337	24 20 55 S	47 26 59	251451	7304935	45
IAA831	JL0064	24 30 00 S	47 30 00				478	529	24 15 54 S	47 15 36	270551	7314535	45
IAA832	JL0087	24 30 00 S	47 30 00				358	539	24 15 35 S	47 19 09	264551	7315035	45
IAA833	JL0108	24 30 00 S	47 30 00				286	512	24 16 17 S	47 21 17	260951	7313685	45
IAA894	IP0129	24 30 00 S	49 00 00				92	140	24 26 10 S	48 57 20	707264	7295911	51
IAA895	IP0134	24 30 00 S	49 00 00				121	195	24 24 40 S	48 56 30	708714	7298661	51
IAA896	IP0148	24 30 00 S	49 00 00				15	160	24 25 40 S	48 59 37	703414	7296911	51
IAA897	IP0155	24 30 00 S	49 15 00				40	45	24 28 46 S	49 13 50	679326	7291505	51
IAA898	IP0177	24 30 00 S	49 00 00				37	234	24 23 39 S	48 59 00	704514	7300611	51
IAA899	IP0181	24 30 00 S	49 00 00				15	205	24 24 27 S	48 59 37	703464	7299161	51
IAA900	IP0198	24 30 00 S	49 00 00				5	288	24 22 12 S	48 59 59	702914	7303311	51
IAA901	IP0200	24 30 00 S	49 00 00				210	79	24 27 47 S	48 53 49	713164	7292861	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

AMOSTRA		COORDENADAS FORNECIDAS					COORDENADAS REAIS						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC.	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC.
IAA902	IP0208	24 30 00 S	49 00 00				135	78	24 27 50 S	48 56 02	709414	7292811	51
IAA903	IP0210	24 30 00 S	49 00 00				156	139	24 26 10 S	48 55 27	710464	7295861	51
IAA904	IP0215	24 30 00 S	49 00 00				132	190	24 24 48 S	48 56 11	709264	7299411	51
IAA905	IP0216	24 30 00 S	49 15 00				491	90	24 27 23 S	49 00 30	701876	7293755	51
IAA906	IP0224	24 30 00 S	49 15 00				483	253	24 22 58 S	49 00 49	701476	7301905	51
IAA907	IP0225	24 30 00 S	49 15 00				488	258	24 22 50 S	49 00 40	701726	7302155	51
IAA908	IP0230	24 30 00 S	49 00 00				2	271	24 22 40 S	49 00 03	702764	7302461	51
IAA909	IP0239	24 30 00 S	49 15 00				417	106	24 26 59 S	49 02 42	698176	7294555	51
IAA910	IP0251	24 30 00 S	49 15 00				417	106	24 26 59 S	49 02 42	698176	7294555	51
IAA911	IP0252	24 30 00 S	49 15 00				397	102	24 27 06 S	49 03 18	697176	7294355	51
IAA912	IP0257	24 30 00 S	49 15 00				457	13	24 29 29 S	49 01 29	700176	7289905	51
IAA913	JR0081	24 30 00 S	49 00 00				310	17	24 29 25 S	48 50 50	718164	7289761	51
IAA914	JR0089	24 30 00 S	49 00 00				230	16	24 29 28 S	48 53 12	714164	7289711	51
IAA915	JR0090	24 30 00 S	49 00 00				228	22	24 29 19 S	48 53 16	714064	7290011	51
IAA916	IP0103	24 30 00 S	49 15 00				230	224	24 23 51 S	49 08 17	688826	7300455	51
IAA917	JR0106	24 30 00 S	49 15 00				298	201	24 22 01 S	49 06 36	691726	7303995	51
IAA918	JP0107	24 30 00 S	49 15 00				292	296	24 21 53 S	49 06 29	691926	7304055	51
IAA919	JR0109	24 30 00 S	49 15 00				39	205	24 24 26 S	49 13 55	679276	7299505	51
IAA920	JD0157	24 30 00 S	47 45 00				383	321	24 21 31 S	47 33 30	240454	7303653	45
IAA921	JD0167	24 30 00 S	47 45 00				55	276	24 22 34 S	47 43 13	224054	7301403	45
IAA922	JD0168	24 30 00 S	47 45 00				211	300	24 22 00 S	47 38 35	231854	7302602	45
IAA923	JD0170	24 30 00 S	47 45 00				77	245	24 23 25 S	47 42 35	225154	7299853	45
IAA924	JD0171	24 30 00 S	47 45 00				97	234	24 23 43 S	47 42 00	226154	7299303	45
IAA925	JD0172	24 30 00 S	47 45 00				113	229	24 23 52 S	47 41 32	226954	7299053	45
IAA926	JD0173	24 30 00 S	47 45 00				124	228	24 23 54 S	47 41 12	227504	7299003	45
IAA927	JD0174	24 30 00 S	47 45 00				137	220	24 24 07 S	47 40 49	228154	7298603	45

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA928	JD0175	24 30 00 S	47 45 00				152	195	24 24 48 S	47 40 24	228904	7297353	45
IAA929	JD0202	24 30 00 S	47 45 00				108	520	24 15 59 S	47 41 30	226704	7313603	45
IAA930	JD0209	24 30 00 S	47 45 00				4	177	24 25 13 S	47 44 47	221504	7296453	45
IAA931	JD0241	24 30 00 S	47 45 00				448	538	24 15 40 S	47 31 28	243704	7314503	45
IAA932	JD0242	24 30 00 S	47 45 00				389	499	24 16 42 S	47 33 13	240754	7312553	45
IAA933	JL0155	24 30 00 S	47 45 00				288	322	24 21 26 S	47 36 18	235704	7303703	45
IAA934	JL0172	24 30 00 S	47 45 00				109	191	24 24 53 S	47 41 40	226754	7297153	45
IAA935	JL0173	24 30 00 S	47 45 00				120	186	24 25 02 S	47 41 21	227304	7296903	45
IAA936	JL0174	24 30 00 S	47 45 00				161	184	24 25 06 S	47 40 08	229354	7296803	45
IAA937	JL0179	24 30 00 S	47 45 00				123	175	24 25 20 S	47 41 16	227454	7296353	45
IAA938	JL0209	24 30 00 S	47 45 00				420	273	24 22 50 S	47 32 26	242304	7301253	45
IAA939	JL0214	24 30 00 S	47 45 00				447	279	24 22 41 S	47 31 38	243654	7301553	45
IAA940	JL0225	24 30 00 S	47 45 00				199	417	24 18 49 S	47 38 53	231254	7308453	45
IAA941	JL0227	24 30 00 S	47 45 00				109	426	24 18 32 S	47 41 32	226754	7308903	45
IAA942	JL0228	24 30 00 S	47 45 00				269	467	24 17 30 S	47 36 47	234754	7310953	45
IAA943	JL0229	24 30 00 S	47 45 00				273	514	24 16 14 S	47 36 38	234954	7313303	45
IAA944	JL0230	24 30 00 S	47 45 00				295	383	24 19 47 S	47 36 04	236054	7306753	45
IAA945	JL0231	24 30 00 S	47 45 00				359	400	24 19 22 S	47 34 10	239254	7307603	45
IAA946	GG0083	24 00 00 S	47 30 00				488	60	23 58 36 S	47 15 35	270057	7346490	45
IAA947	GG0092	24 00 00 S	47 15 00				377	61	23 58 30 S	47 03 52	289951	7346960	45
IAA948	GG0097	24 00 00 S	47 15 00				297	69	23 58 15 S	47 06 13	285951	7347360	45
IAA949	GG0103	24 00 00 S	47 15 00				67	125	23 56 39 S	47 12 58	274451	7350160	45
IAA950	GG0107	24 00 00 S	47 15 00				362	261	23 53 05 S	47 04 13	289201	7356960	45
IAA951	GG0110	24 00 00 S	47 15 00				382	161	23 55 48 S	47 03 40	290201	7351960	45
IAA952	GG0112	24 00 00 S	47 00 00				126	399	23 49 15 S	46 56 07	302842	7364244	45
IAA953	GG0120	24 00 00 S	47 15 00				29	24	23 59 22 S	47 14 08	272551	7345110	45

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDÉLPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S F E E I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA954	GG0123	24 00 00 S	47 30 00				447	60	23 58 35 S	47 16 48	268007	7346480	45
IAA955	GG0126	24 00 00 S	47 15 00				431	206	23 54 36 S	47 02 13	292651	7354210	45
IAA956	GG0130	24 00 00 S	47 15 00				462	160	23 55 51 S	47 01 19	294201	7351910	45
IAA957	GG0137	24 00 00 S	47 00 00				182	434	23 48 19 S	46 54 28	305642	7365994	45
IAA958	GG0145	24 00 00 S	47 00 00				109	201	23 54 36 S	46 56 42	301992	7354344	45
IAA959	GG0150	24 00 00 S	47 00 00				162	279	23 52 30 S	46 55 07	304642	7358244	45
IAA960	GG0153	24 00 00 S	47 00 00				211	330	23 51 09 S	46 53 39	307092	7360794	45
IAA961	GG0157	24 00 00 S	47 00 00				95	328	23 51 09 S	46 57 04	301292	7360694	45
IAA962	GG0158	24 00 00 S	47 15 00				46	205	23 54 28 S	47 13 33	273401	7354160	45
IAA963	GG0160	24 00 00 S	47 00 00				39	105	23 57 10 S	46 58 48	298492	7349544	45
IAA964	MV0222	24 00 00 S	47 30 00				455	165	23 55 45 S	47 16 31	268407	7351730	45
IAA965	MV0224	24 00 00 S	47 30 00				428	158	23 55 55 S	47 17 19	267057	7351380	45
IAA966	MV0234	24 00 00 S	47 15 00				450	68	23 58 21 S	47 01 42	293601	7347310	45
IAA967	MV0250	24 00 00 S	47 15 00				320	188	23 55 03 S	47 05 29	287101	7353310	45
IAA968	MV0252	24 00 00 S	47 15 00				276	224	23 54 03 S	47 06 46	284901	7355110	45
IAA969	MV0258	24 00 00 S	47 00 00				53	390	23 49 29 S	46 58 17	299192	7363794	45
IAA970	MV0265	24 00 00 S	47 00 00				62	437	23 48 11 S	46 58 00	299642	7366144	45
IAA971	MV0272	24 00 00 S	47 15 00				438	347	23 50 47 S	47 01 57	293001	7361260	45
IAA972	MV0279	24 00 00 S	47 15 00				256	313	23 51 38 S	47 07 19	283901	7359560	45
IAA973	MV0281	24 00 00 S	47 15 00				247	272	23 52 44 S	47 07 36	283451	7357510	45
IAA974	MV0285	24 00 00 S	47 15 00				83	144	23 55 08 S	47 12 29	275251	7351110	45
IAA975	MV0286	24 00 00 S	47 15 00				227	87	23 57 44 S	47 08 16	292451	7348260	45
IAA976	MV0290	24 00 00 S	47 15 00				156	241	23 53 32 S	47 10 18	278901	7355960	45
IAA977	MV0292	24 00 00 S	47 15 00				97	274	23 52 37 S	47 12 01	275951	7357610	45
IAA978	MV0297	24 00 00 S	47 15 00				125	344	23 50 44 S	47 11 10	277351	7361110	45
IAA979	MV0298	24 00 00 S	47 15 00				427	276	23 52 42 S	47 02 18	292451	7357710	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDEPLPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S							C O O R D E N A D A S P E A I S				
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAA980	MV0301	24 00 00 S	47 15 00				380	345	23 50 49 S	47 03 39	290101	7361160	45
IAA981	MV0305	24 00 00 S	47 15 00				297	341	23 50 53 S	47 06 06	285951	7360960	45
IAA982	MV0308	24 00 00 S	47 00 00				47	323	23 51 16 S	46 58 29	298892	7360444	45
IAA983	MV0329	24 00 00 S	47 00 00				6	271	23 52 40 S	46 59 43	296842	7357844	45
IAA984	IP0129A	24 30 00 S	49 00 00				92	140	24 26 10 S	49 57 20	707264	7295911	51
IAA992	JD0176	24 30 00 S	47 45 00				152	195	24 24 48 S	47 40 24	228904	7297353	45
IAB026	AM0052	24 45 00 S	48 00 00				159	509	24 31 19 S	47 54 58	204508	7284810	45
IAB027	AM0053	24 45 00 S	48 00 00				208	59	24 43 32 S	47 53 48	206958	7262310	45
IAB028	AM0063	24 45 00 S	48 00 00				343	38	24 44 10 S	47 49 49	213708	7261249	45
IAB029	AM0072	24 45 00 S	48 00 00				218	121	24 41 51 S	47 53 28	207458	7265410	45
IAB030	FB0046	24 45 00 S	48 00 00				2	46	24 43 45 S	47 59 55	196658	7261669	45
IAB031	FB0051	24 45 00 S	48 00 00				145	46	24 43 50 S	47 55 40	203808	7261669	45
IAB032	JD0275	24 30 00 S	48 00 00				138	305	24 21 50 S	47 55 44	202853	7302726	45
IAB033	JD0292	24 30 00 S	48 15 00				454	444	24 17 44 S	48 01 51	801396	7309803	51
IAB034	JD0296	24 30 00 S	48 15 00				355	452	24 17 34 S	48 04 47	796446	7310203	51
IAB035	JD0304	24 30 00 S	48 15 00				202	365	24 20 01 S	48 09 15	788796	7305853	51
IAB036	JD0326	24 30 00 S	48 00 00				167	384	24 19 42 S	47 54 49	204303	7306276	45
IAB037	JD0327	24 30 00 S	48 00 00				105	501	24 16 30 S	47 56 35	201203	7312126	45
IAB038	JD0333	24 30 00 S	48 15 00				483	112	24 26 42 S	48 00 47	802846	7293203	51
IAB039	JL0261	24 30 00 S	48 00 00				303	69	24 28 18 S	47 51 00	211103	7290526	45
IAB040	JL0266	24 30 00 S	48 00 00				338	162	24 25 49 S	47 49 54	212853	7295176	45
IAB041	JL0279	24 30 00 S	48 00 00				103	435	24 18 17 S	47 56 41	201103	7308826	45
IAB042	JL0288	24 30 00 S	48 15 00				505	377	24 19 31 S	48 00 18	803946	7306453	51
IAB043	JR0111	24 30 00 S	49 15 00				337	146	24 25 56 S	49 05 05	694176	7296555	51
IAB044	JR0112	24 30 00 S	49 15 00				329	198	24 24 31 S	49 05 21	693776	7299155	51
IAB045	JR0113	24 30 00 S	49 15 00				341	191	24 24 42 S	49 04 59	694376	7298805	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB045	JR0114	24 30 00 S	49 15 00				327	240	24 23 23 S	49 05 25	693676	7301255	51
IAB047	JR0115	24 30 00 S	49 15 00				246	110	24 26 56 S	49 07 46	689626	7294755	51
IAB048	JR0116	24 30 00 S	49 15 00				252	123	24 26 35 S	49 07 35	689926	7295405	51
IAB049	IP0294	24 30 00 S	49 15 00				450	18	24 29 21 S	49 01 41	699826	7290155	51
IAB050	IP0303	24 45 00 S	49 15 00				241	470	24 32 11 S	49 08 03	689023	7285065	51
IAB051	IP0310	24 30 00 S	49 15 00				252	30	24 29 06 S	49 07 33	689926	7290755	51
IAB052	IP0311	24 30 00 S	49 15 00				230	43	24 28 45 S	49 08 13	688826	7291405	51
IAB053	IP0313	24 30 00 S	49 15 00				353	114	24 26 47 S	49 04 36	694976	7294955	51
IAB054	IP0314	24 30 00 S	49 15 00				232	95	24 27 21 S	49 08 10	688926	7294005	51
IAB055	IP0316	24 30 00 S	49 15 00				296	135	24 26 14 S	49 06 18	692126	7296005	51
IAB056	IP0317	24 30 00 S	49 15 00				310	144	24 25 59 S	49 05 53	692826	7296455	51
IAB057	IP0318	24 30 00 S	49 15 00				264	230	24 23 41 S	49 07 17	690526	7300755	51
IAB058	IP0319	24 30 00 S	49 15 00				280	263	24 22 47 S	49 06 49	691326	7302405	51
IAB059	IP0336	24 30 00 S	49 00 00				204	157	24 25 40 S	48 54 02	712864	7296751	51
IAB060	IP0338	24 45 00 S	49 15 00				60	535	24 30 29 S	49 13 26	679973	7288315	51
IAB061	IP0339	24 45 00 S	49 15 00				124	524	24 30 46 S	49 11 32	683173	7287765	51
IAB062	IP0342	24 30 00 S	49 15 00				181	66	24 28 09 S	49 09 40	686376	7292555	51
IAB063	IP0344	24 30 00 S	49 15 00				218	260	24 22 53 S	49 08 39	688226	7302255	51
IAB064	IP0351	24 30 00 S	49 15 00				17	134	24 26 22 S	49 14 33	678176	7295955	51
IAB065	IP0352	24 30 00 S	49 15 00				59	102	24 27 13 S	49 13 18	690276	7294355	51
IAB066	MV0290	24 00 00 S	47 15 00				156	241	23 53 32 S	47 10 18	278901	7355960	45
IAB067	MV0292	24 00 00 S	47 15 00				97	274	23 52 37 S	47 12 01	275951	7357610	45
IAB068	GG0216	24 00 00 S	47 00 00				269	111	23 57 06 S	46 52 02	309992	7349844	45
IAB069	MV0305	24 00 00 S	47 15 00				297	341	23 50 53 S	47 06 06	285951	7360960	45
IAB070	MV0333	24 30 00 S	47 15 00				314	387	24 19 39 S	47 05 32	287695	7307871	45
IAB071	MV0335	24 30 00 S	47 15 00				326	418	24 18 49 S	47 05 10	288295	7309421	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB072	MV0337	24 30 00 S	47 15 00				350	455	24 17 50 S	47 04 27	289495	7311271	45
IAB073	MV0343	24 15 00 S	47 15 00				273	5	24 14 59 S	47 06 56	285196	7316466	45
IAB074	MV0342	24 30 00 S	47 15 00				130	436	24 18 19 S	47 10 57	278495	7310321	45
IAB075	MV0355	24 15 00 S	47 15 00				212	66	24 13 18 S	47 08 43	282146	7319516	45
IAB076	MV0356	24 15 00 S	47 15 00				185	547	24 00 16 S	47 09 17	280796	7343566	45
IAB077	MV0359	24 00 00 S	47 00 00				203	110	23 57 06 S	46 53 58	306692	7349794	45
IAB078	MV0378	24 00 00 S	47 00 00				221	459	23 47 39 S	46 53 18	307592	7367244	45
IAB079	MV0369	24 00 00 S	47 00 00				63	53	23 58 35 S	46 58 07	299692	7346944	45
IAB080	MV0387	24 00 00 S	47 00 00				287	52	23 58 42 S	46 51 31	310892	7346894	45
IAB081	MV0391	24 00 00 S	47 00 00				414	87	23 57 48 S	46 47 46	317242	7348644	45
IAB092	GG0166	24 30 00 S	47 15 00				154	366	24 20 09 S	47 10 16	279695	7306821	45
IAB083	GG0166	24 30 00 S	47 15 00				154	366	24 20 09 S	47 10 16	279695	7306821	45
IAB084	GG0169	24 30 00 S	47 15 00				223	347	24 20 42 S	47 08 15	283145	7305871	45
IAB085	GG0192	24 00 00 S	47 00 00				192	53	23 58 38 S	46 54 19	306142	7346944	45
IAB086	GG0197	24 00 00 S	47 00 00				142	10	23 59 47 S	46 55 49	303642	7344794	45
IAB087	GG0198	24 00 00 S	47 00 00				150	51	23 58 41 S	46 55 33	304042	7346844	45
IAB088	GG0201	24 00 00 S	47 00 00				220	9	23 59 50 S	46 53 31	307542	7344744	45
IAB089	GG0207	24 00 00 S	47 15 00				368	455	23 47 50 S	47 03 57	289501	7366660	45
IAB090	GG0213	24 00 00 S	47 15 00				230	370	23 50 05 S	47 08 03	282601	7362410	45
IAB091	GG0224	24 15 00 S	47 15 00				42	461	24 02 32 S	47 13 33	273646	7339266	45
IAB107	GG0235	24 00 00 S	47 15 00				368	422	23 48 44 S	47 03 58	289501	7365010	45
IAB108	GG0243	24 15 00 S	47 00 00				15	484	24 01 54 S	46 59 21	297687	7340803	45
IAB109	MV0398	24 15 00 S	47 15 00				143	517	24 01 04 S	47 10 32	278696	7342066	45
IAB110	MV0413	24 15 00 S	47 15 00				429	425	24 03 40 S	47 02 09	292996	7337466	45
IAB111	MV0416	24 15 00 S	47 15 00				443	519	24 01 08 S	47 01 42	293696	7342166	45
IAB112	MV0420	24 15 00 S	47 15 00				366	489	24 01 55 S	47 03 59	289846	7340666	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P F A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB113	MV0424	24 00 00 S	47 15 00				477	388	23 49 41 S	47 00 47	294951	7363310	45
IAB114	JP0117	24 45 00 S	49 30 00				405	170	24 40 16 S	49 18 03	671937	7270366	51
IAB115	JR0118	24 45 00 S	49 30 00				468	518	24 30 49 S	49 16 19	675087	7287766	51
IAB116	JP0121	24 45 00 S	49 30 00				425	425	24 33 21 S	49 17 33	672937	7283116	51
IAB117	JR0128	24 45 00 S	49 15 00				356	495	24 31 28 S	49 04 39	694773	7286315	51
IAB118	JR0129	24 45 00 S	49 15 00				357	489	24 31 38 S	49 04 37	694823	7286015	51
IAB119	JP0132	24 45 00 S	49 15 00				412	492	24 31 32 S	49 02 59	697573	7286165	51
IAB120	JP0133	24 45 00 S	49 15 00				376	458	24 32 28 S	49 04 02	695773	7284465	51
IAB121	JR0135	24 45 00 S	49 15 00				260	411	24 33 47 S	49 07 27	689973	7282115	51
IAB122	JR0136	24 45 00 S	49 15 00				240	434	24 33 10 S	49 08 03	688973	7283265	51
IAB123	JR0137	24 45 00 S	49 15 00				312	377	24 34 41 S	49 05 54	692573	7280415	51
IAB124	JP0138	24 45 00 S	49 15 00				324	417	24 33 35 S	49 05 34	693173	7282415	51
IAB125	JR0148	24 45 00 S	49 15 00				435	469	24 32 08 S	49 02 18	698723	7285015	51
IAB126	IP0353	24 30 00 S	49 00 00				203	11	24 29 37 S	49 54 00	712814	7289461	51
IAB127	IP0354	24 30 00 S	49 15 00				413	135	24 26 12 S	49 02 50	697976	7296005	51
IAB128	IP0355	24 45 00 S	49 30 00				458	155	24 40 39 S	49 16 29	674587	7269616	51
IAB129	IP0357	24 45 00 S	49 30 00				424	239	24 38 24 S	49 17 31	672887	7273816	51
IAB130	IP0358	24 45 00 S	49 30 00				391	286	24 37 08 S	49 18 31	671237	7276166	51
IAB131	IP0359	24 45 00 S	49 30 00				490	230	24 38 37 S	49 15 33	676187	7273366	51
IAB132	IP0360	24 45 00 S	49 30 00				499	246	24 38 11 S	49 15 18	676637	7274166	51
IAB133	IP0363	24 30 00 S	49 15 00				181	24	24 29 17 S	49 09 39	686376	7290455	51
IAB134	IP0364	24 45 00 S	49 30 00				411	344	24 35 33 S	49 17 56	672237	7279066	51
IAB135	IP0366	24 45 00 S	49 15 00				40	246	24 38 19 S	49 13 54	678973	7273855	51
IAB136	IP0367	24 45 00 S	49 15 00				51	267	24 37 45 S	49 13 35	679523	7274915	51
IAB137	IP0368	24 45 00 S	49 15 00				37	286	24 37 15 S	49 14 01	678823	7275865	51
IAB138	IP0369	24 45 00 S	49 15 00				82	322	24 36 15 S	49 12 42	681073	7277655	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-OPD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-OPD.	MC
IAB139	IP0371	24 45 00 S	49 30 00				386	259	24 37 52 S	49 18 39	670987	7274816	51
IAB140	IP0372	24 45 00 S	49 30 00				387	376	24 34 42 S	49 18 40	671037	7280666	51
IAB141	IP0374	24 45 00 S	49 30 00				488	331	24 35 53 S	49 15 39	676087	7278416	51
IAB142	IP0376	24 45 00 S	49 30 00				488	379	24 34 35 S	49 15 40	676087	7280816	51
IAB143	IP0377	24 45 00 S	49 30 00				512	405	24 33 52 S	49 14 58	677287	7282116	51
IAB144	IP0378	24 45 00 S	49 30 00				500	411	24 33 43 S	49 15 20	676687	7282416	51
IAB145	IP0380	24 45 00 S	49 15 00				90	155	24 40 47 S	49 13 35	679473	7269315	51
IAB146	IP0381	24 45 00 S	49 15 00				51	165	24 40 31 S	49 13 33	679523	7269815	51
IAB147	IP0384	24 45 00 S	49 15 00				146	177	24 40 09 S	49 10 44	684273	7270415	51
IAB148	IP0386	24 45 00 S	49 15 00				82	240	24 38 28 S	49 12 40	681073	7273565	51
IAB149	IP0387	24 45 00 S	49 15 00				109	206	24 39 23 S	49 11 51	682423	7271665	51
IAB150	IP0388	24 45 00 S	49 15 00				90	194	24 39 43 S	49 12 24	681473	7271265	51
IAB151	IP0389	24 45 00 S	49 30 00				425	128	24 41 24 S	49 17 27	672937	7268266	51
IAB152	FB0092	24 45 00 S	48 00 00				33	443	24 33 02 S	47 58 44	198208	7281510	45
IAB153	FB0098	24 45 00 S	49 15 00				181	329	24 36 02 S	49 09 46	686023	7278015	51
IAB154	FB0100	24 45 00 S	49 15 00				165	284	24 37 15 S	49 10 13	685223	7275765	51
IAB155	FB0102	24 45 00 S	49 15 00				210	171	24 40 18 S	49 08 50	687473	7270115	51
IAB156	FB0109	24 45 00 S	49 15 00				96	333	24 35 57 S	49 12 17	681773	7278215	51
IAB157	FB0110	24 45 00 S	49 15 00				159	379	24 34 41 S	49 10 26	684923	7280515	51
IAB158	FB0111	24 45 00 S	49 15 00				168	321	24 36 15 S	49 10 09	685373	7277615	51
IAB159	FB0113	24 45 00 S	49 15 00				114	431	24 33 17 S	49 11 47	682673	7283115	51
IAB160	FB0114	24 45 00 S	49 15 00				115	431	24 33 17 S	49 11 44	682773	7283115	51
IAB161	FB0115	24 45 00 S	49 15 00				96	481	24 31 56 S	49 12 20	681773	7285615	51
IAB162	FB0116	24 45 00 S	49 15 00				80	489	24 31 44 S	49 12 49	680973	7286015	51
IAB163	FB0118	24 45 00 S	49 15 00				70	439	24 33 05 S	49 13 06	680473	7283515	51
IAB164	FB0125	24 45 00 S	49 15 00				220	422	24 33 30 S	49 08 39	687973	7282665	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

AMOSTRA		COORDENADAS FORNECIDAS					COORDENADAS REAIS						
N.º LAB.	N.º CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-CRO.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-OPD.	MC
IAB165	FB0127	24 45 00 S	49 15 00				236	395	24 34 13 S	49 08 10	688773	7281315	51
IAB166	AM0117	24 45 00 S	49 15 00				420	216	24 39 00 S	49 02 38	697973	7272365	51
IAB167	AM0123	24 45 00 S	49 15 00				301	172	24 40 14 S	49 06 09	692023	7270165	51
IAB168	AM0124	24 45 00 S	49 15 00				281	192	24 39 42 S	49 06 45	691023	7271165	51
IAB169	AM0125	24 45 00 S	49 15 00				276	191	24 39 44 S	49 06 54	690773	7271115	51
IAB170	AM0126	24 45 00 S	49 15 00				282	168	24 40 21 S	49 06 42	691073	7269965	51
IAB171	AM0128	24 45 00 S	49 15 00				339	178	24 40 03 S	49 05 01	693923	7270465	51
IAB172	AM0133	24 45 00 S	49 15 00				422	270	24 37 32 S	49 02 36	698073	7275065	51
IAB173	AM0134	24 45 00 S	49 15 00				434	286	24 37 06 S	49 02 15	698673	7275865	51
IAB174	AM0135	24 45 00 S	49 15 00				393	319	24 36 13 S	49 03 29	696623	7277515	51
IAB175	AM0136	24 45 00 S	49 15 00				382	321	24 36 10 S	49 03 48	696073	7277615	51
IAB176	AM0137	24 45 00 S	49 15 00				312	317	24 36 18 S	49 05 53	692573	7277415	51
IAB177	AM0140	24 45 00 S	49 15 00				302	313	24 36 25 S	49 06 10	692073	7277215	51
IAB178	AM0150	24 45 00 S	49 15 00				331	309	24 36 31 S	49 05 19	693523	7277015	51
IAB179	AM0154	24 45 00 S	49 15 00				198	475	24 32 04 S	49 09 19	686873	7285315	51
IAB180	AM0155	24 45 00 S	49 15 00				238	519	24 30 52 S	49 08 09	688873	7287515	51
IAB181	JD0337	24 30 00 S	48 15 00				393	165	24 25 19 S	48 03 29	798346	7295853	51
IAB182	JD0338	24 30 00 S	48 15 00				361	189	24 24 41 S	48 04 27	796746	7297053	51
IAB183	JD0339	24 30 00 S	48 15 00				333	202	24 24 21 S	48 05 17	795346	7297703	51
IAB184	JD0343	24 30 00 S	48 15 00				240	294	24 21 55 S	48 08 05	790696	7302303	51
IAB185	JD0345	24 30 00 S	48 15 00				211	279	24 22 20 S	48 08 56	789246	7301553	51
IAB186	JD0346	24 30 00 S	48 15 00				206	289	24 22 04 S	48 09 05	788996	7302053	51
IAB187	JD0365	24 30 00 S	48 15 00				246	204	24 24 21 S	48 07 51	790996	7297803	51
IAB188	JD0368	24 30 00 S	48 15 00				191	161	24 25 32 S	48 09 27	788246	7295653	51
IAB189	JD0370	24 30 00 S	48 15 00				338	56	24 28 18 S	48 05 02	795596	7290403	51
IAB190	JD0371	24 30 00 S	48 15 00				260	546	24 15 05 S	48 07 39	791696	7314903	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUPELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S R E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB191	JD0372	24 30 00 S	48 15 00				241	539	24 15 17 S	48 08 12	790746	7314553	51
IAB192	JD0373	24 30 00 S	48 15 00				213	529	24 15 34 S	48 09 01	789346	7314053	51
IAB193	JD0374	24 30 00 S	48 15 00				201	522	24 15 46 S	48 09 22	788746	7313703	51
IAB194	JD0375	24 30 00 S	48 15 00				178	528	24 15 37 S	48 10 03	787596	7314003	51
IAB195	JD0376	24 30 00 S	48 15 00				178	530	24 15 34 S	48 10 03	787596	7314103	51
IAB196	JD0377	24 30 00 S	48 15 00				169	528	24 15 37 S	48 10 19	787146	7314003	51
IAB197	JD0378	24 30 00 S	48 15 00				160	519	24 15 52 S	48 10 35	786696	7313553	51
IAB198	JL0339	24 30 00 S	48 15 00				344	278	24 22 17 S	48 05 00	795896	7301503	51
IAB199	JL0359	24 30 00 S	48 15 00				470	207	24 24 08 S	48 01 14	802196	7297953	51
IAB200	JL0363	24 30 00 S	48 15 00				150	364	24 20 04 S	48 10 47	786196	7305803	51
IAB201	JL0366	24 30 00 S	48 15 00				271	554	24 14 52 S	48 07 20	792246	7315303	51
IAB202	JL0371	24 30 00 S	48 15 00				279	516	24 15 53 S	48 07 04	792646	7313403	51
IAB203	JL0375	24 30 00 S	48 15 00				130	159	24 25 38 S	48 11 15	785196	7295553	51
IAB204	JL0376	24 30 00 S	48 15 00				124	168	24 25 23 S	48 11 26	784896	7296003	51
IAB205	JL0379	24 30 00 S	48 15 00				157	166	24 25 25 S	48 10 27	786546	7295903	51
IAB226	JD0393	24 30 00 S	48 15 00				185	86	24 27 34 S	48 09 35	787946	7291903	51
IAB227	JD0397	24 30 00 S	48 15 00				41	0	24 29 59 S	48 13 47	780746	7287603	51
IAB228	JD0398	24 30 00 S	48 15 00				50	19	24 29 28 S	48 13 32	781196	7288553	51
IAB229	JD0399	24 30 00 S	48 15 00				25	56	24 28 28 S	48 14 18	779946	7290403	51
IAB230	JD0400	24 30 00 S	48 15 00				68	93	24 27 27 S	48 13 03	782096	7292253	51
IAB231	JD0403	24 30 00 S	48 15 00				252	41	24 29 45 S	48 07 34	791296	7289653	51
IAB232	JL0382	24 30 00 S	48 15 00				86	403	24 19 03 S	48 12 42	782996	7307753	51
IAB233	JL0383	24 30 00 S	48 15 00				90	389	24 19 25 S	48 12 34	783196	7307053	51
IAB234	JL0384	24 30 00 S	48 15 00				93	435	24 18 11 S	48 12 31	783346	7309353	51
IAB235	JL0385	24 30 00 S	48 15 00				66	407	24 18 57 S	48 13 17	781996	7307953	51
IAB236	JL0387	24 30 00 S	48 15 00				61	375	24 19 49 S	48 13 25	781746	7306353	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ARC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ARC.	UTM-ORD.	MC
IAB237	JL0388	24 30 00 S	48 15 00				62	280	24 22 23 S	48 13 20	781796	7301603	51
IAB238	JL0389	24 30 00 S	48 15 00				7	357	24 20 20 S	48 15 00	779046	7305453	51
IAB239	JL0390	24 30 00 S	48 15 00				8	225	24 23 54 S	48 14 54	779096	7298853	51
IAB240	JL0391	24 30 00 S	48 15 00				15	279	24 22 26 S	48 14 41	779496	7301553	51
IAB245	GG0284	25 00 00 S	48 00 00				45	120	24 56 47 S	47 58 35	199419	7237652	45
IAB246	GG0288	25 00 00 S	48 00 00				58	202	24 54 36 S	47 58 09	200069	7241762	45
IAB247	GG0249	24 15 00 S	47 15 00				72	453	24 02 46 S	47 12 40	275146	7338866	45
IAB248	GG0295	24 15 00 S	47 00 00				143	145	24 11 08 S	46 55 43	304087	7223853	45
IAB249	GG0300	24 15 00 S	47 00 00				200	515	24 01 08 S	46 53 53	306937	7342353	45
IAB250	GG0290	25 00 00 S	48 00 00				77	347	24 50 39 S	47 57 29	201019	7249012	45
IAB251	GG0292	25 00 00 S	48 00 00				135	353	24 50 32 S	47 55 46	203919	7249312	45
IAB252	GG0289	25 00 00 S	48 00 00				72	293	24 52 07 S	47 57 40	200769	7246312	45
IAB259	MV0432	24 15 00 S	47 00 00				38	415	24 03 47 S	46 58 42	298837	7337353	45
IAB260	MV0438	24 45 00 S	47 45 00				441	125	24 41 51 S	47 31 52	243909	7266151	45
IAB261	MV0440	24 45 00 S	47 45 00				28	140	24 41 14 S	47 44 05	223258	7266901	45
IAB262	MV0443	24 45 00 S	47 45 00				22	191	24 39 51 S	47 44 14	222958	7269451	45
IAB263	MV0465	24 30 00 S	47 15 00				8	393	24 19 22 S	47 14 34	272395	7308171	45
IAB264	MV0471	25 00 00 S	48 15 00				396	474	24 46 57 S	48 03 33	797382	7255898	51
IAB265	MV0477	25 00 00 S	48 15 00				327	495	24 46 25 S	48 05 36	793932	7256948	51
IAB273	JL0410	24 15 00 S	47 30 00				465	289	24 07 23 S	47 16 08	269402	7330233	45
IAB274	JL0411	24 15 00 S	47 30 00				423	232	24 08 55 S	47 17 24	267302	7327393	45
IAB275	JL0462	24 15 00 S	47 30 00				386	197	24 09 51 S	47 18 30	265452	7325633	45
IAB277	JL0499	24 15 00 S	47 15 00				43	362	24 05 13 S	47 13 24	272696	7334316	45
IAB278	JL0453	24 15 00 S	47 30 00				431	105	24 12 21 S	47 17 13	267702	7321033	45
IAB279	JL0520	24 15 00 S	47 30 00				60	226	24 08 55 S	47 28 07	249152	7327083	45
IAB280	JL0530	24 15 00 S	47 30 00				467	314	24 06 43 S	47 16 04	269502	7331493	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB281	JL0531	24 15 00 S	47 30 00				285	P2	24 12 55 S	47 21 33	260402	7319883	45
IAB285	JD0410	24 15 00 S	47 45 00				268	138	24 11 24 S	47 37 01	234154	7322205	45
IAB286	JD0418	24 15 00 S	47 45 00				250	266	24 07 56 S	47 37 28	233254	7328605	45
IAB287	JD0420	24 15 00 S	47 45 00				252	306	24 06 51 S	47 37 24	233354	7330605	45
IAB288	JD0428	24 15 00 S	47 45 00				302	402	24 04 17 S	47 35 52	235854	7335405	45
IAB289	JD0436	24 15 00 S	47 45 00				339	492	24 01 51 S	47 34 44	237704	7339905	45
IAB290	JD0442	24 15 00 S	47 45 00				275	493	24 01 48 S	47 36 37	234504	7339955	45
IAB291	JD0446	24 15 00 S	47 45 00				239	486	24 01 58 S	47 37 41	232704	7339605	45
IAB292	JD0450	24 15 00 S	47 45 00				149	471	24 02 20 S	47 40 20	228204	7338855	45
IAB293	JD0456	24 15 00 S	47 45 00				315	445	24 03 07 S	47 35 27	236504	7337555	45
IAB294	JD0459	24 15 00 S	47 45 00				385	509	24 01 25 S	47 33 22	240004	7340755	45
IAB295	JD0467	24 15 00 S	47 45 00				352	246	24 08 31 S	47 34 29	238354	7327605	45
IAB296	JD0472	24 15 00 S	47 45 00				212	323	24 06 22 S	47 38 34	231354	7331455	45
IAB297	JD0474	24 15 00 S	47 45 00				188	333	24 06 05 S	47 39 16	230154	7331955	45
IAB298	JD0476	24 15 00 S	47 45 00				143	317	24 06 30 S	47 40 36	227904	7331155	45
IAB299	JD0487	24 15 00 S	47 45 00				100	268	24 07 48 S	47 41 54	225754	7328705	45
IAB300	JD0499	24 15 00 S	47 45 00				43	362	24 05 14 S	47 43 31	222904	7333405	45
IAB301	JD0517	24 15 00 S	47 45 00				174	200	24 09 41 S	47 39 45	229454	7325305	45
IAB302	JD0520	24 15 00 S	47 45 00				314	100	24 12 27 S	47 35 41	236454	7320305	45
IAB303	JD0522	24 15 00 S	47 45 00				346	91	24 12 43 S	47 34 44	238054	7319855	45
IAB304	JD0523	24 15 00 S	47 45 00				177	379	24 04 50 S	47 39 34	229604	7334255	45
IAB305	JD0533	24 15 00 S	47 45 00				86	339	24 05 52 S	47 42 16	225054	7332255	45
IAB306	JD0535	24 15 00 S	48 00 00				468	471	24 02 31 S	47 45 55	218754	7338331	45
IAB307	JD0535A	24 15 00 S	48 00 00				468	471	24 02 31 S	47 45 55	218754	7338331	45
IAB308	JD0537	24 15 00 S	48 00 00				490	458	24 02 53 S	47 45 16	219854	7337691	45
IAB309	JD0538	24 15 00 S	47 45 00				516	661	24 02 47 S	47 29 32	246554	7338355	45

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB310	JD0539	24 15 00 S	47 45 00				7	460	24 02 33 S	47 44 32	221104	7338305	45
IAB311	JD0541	24 30 00 S	47 45 00				105	549	24 15 12 S	47 41 35	226554	7315053	45
IAB312	JD0544	24 15 00 S	47 45 00				73	19	24 14 31 S	47 42 50	224404	7316255	45
IAB313	JD0548	24 15 00 S	47 45 00				34	315	24 06 30 S	47 43 49	222454	7331055	45
IAB352	JR0153	24 45 00 S	49 00 00				343	506	24 31 10 S	48 50 04	719411	7286519	51
* IAB353	JR0155	24 45 00 S	49 00 00				282	320	24 36 13 S	48 51 47	716361	7277219	51 *
IAB354	JR0156	24 45 00 S	49 00 00				321	204	24 39 21 S	48 50 35	718311	7271419	51
IAB355	JR0158	24 45 00 S	49 00 00				220	186	24 39 52 S	48 53 34	713261	7270519	51
IAB356	JR0159	24 45 00 S	49 00 00				266	196	24 39 35 S	48 52 12	715561	7271019	51
IAB357	JR0160	24 45 00 S	49 00 00				256	312	24 36 27 S	48 52 33	715061	7276819	51
IAB358	JR0162	24 45 00 S	49 00 00				298	263	24 37 45 S	48 51 17	717161	7274369	51
IAB359	JR0167	24 45 00 S	49 00 00				134	217	24 39 04 S	48 56 07	708961	7272069	51
IAB360	JR0168	24 45 00 S	49 00 00				129	217	24 39 04 S	48 56 16	708711	7272069	51
IAB361	JR0173	24 45 00 S	49 00 00				351	294	24 36 54 S	48 49 44	719811	7275919	51
IAB362	JR0174	24 45 00 S	49 00 00				359	341	24 35 37 S	48 49 31	720211	7278269	51
IAB363	JR0175	24 45 00 S	49 00 00				349	351	24 35 21 S	48 49 49	719711	7278769	51
IAB364	JR0176	24 45 00 S	49 00 00				371	224	24 38 47 S	48 49 06	720811	7272419	51
IAB365	JR0177	24 45 00 S	49 00 00				391	205	24 39 17 S	48 48 30	721811	7271469	51
IAB366	JR0179	24 45 00 S	49 00 00				452	249	24 38 04 S	48 46 43	724861	7273669	51
IAB367	JR0182	24 45 00 S	49 00 00				439	248	24 38 06 S	48 47 06	724211	7273619	51
IAB368	JR0183	24 45 00 S	49 00 00				462	242	24 38 15 S	48 46 25	725361	7273319	51
IAB369	JR0196	24 45 00 S	49 00 00				478	169	24 40 13 S	48 45 55	726161	7269669	51
IAB370	JR0198	24 45 00 S	49 00 00				211	280	24 37 20 S	48 53 52	712811	7275219	51
IAB371	JR0203	24 45 00 S	49 00 00				57	180	24 40 06 S	48 58 23	705111	7270219	51
IAB372	JR0213	24 45 00 S	48 45 00				386	214	24 39 02 S	48 33 40	746852	7271526	51
IAB373	JR0216	24 45 00 S	48 45 00				415	73	24 42 50 S	48 32 44	748302	7264476	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

AMOSTRA		COORDENADAS FORNECIDAS					COORDENADAS PAIS						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB374	JR0218	24 45 00 S	48 45 00				390	353	24 35 16 S	48 33 38	747052	7278476	51
IAB375	JR0219	24 45 00 S	48 45 00				397	392	24 34 12 S	48 33 26	747402	7280426	51
IAB376	JR0223	24 45 00 S	48 45 00				354	190	24 39 42 S	48 34 36	745252	7270326	51
IAB377	JR0225	24 45 00 S	48 45 00				355	147	24 40 51 S	48 34 33	745302	7268176	51
IAB378	JR0226	24 45 00 S	48 45 00				319	377	24 34 30 S	48 35 44	743502	7279676	51
IAB379	JR0227	24 45 00 S	48 45 00				321	386	24 34 24 S	48 35 41	743602	7280126	51
IAB380	JR0228	24 45 00 S	48 45 00				325	427	24 33 17 S	48 35 35	743802	7282176	51
IAB381	JR0231	24 45 00 S	48 45 00				334	467	24 32 12 S	48 35 21	744252	7284176	51
IAB382	JR0232	24 45 00 S	48 45 00				329	491	24 31 33 S	48 35 30	744002	7285376	51
IAB383	JR0235	24 30 00 S	48 45 00				372	19	24 29 19 S	48 34 00	746605	7289471	51
IAB384	JR0236	24 30 00 S	48 45 00				380	15	24 29 25 S	48 33 46	747005	7289271	51
IAB385	JR0237	24 45 00 S	48 45 00				377	535	24 30 21 S	48 34 06	746402	7287576	51
IAB386	JL0548	24 45 00 S	48 15 00				249	20	24 44 19 S	48 07 38	790592	7260901	51
IAB387	JL0574	24 15 00 S	47 30 00				231	444	24 03 05 S	47 22 57	257702	7337983	45
IAB388	JL0593	24 15 00 S	47 30 00				81	403	24 04 08 S	47 27 24	250202	7335933	45
IAB389	JL0584	24 15 00 S	47 30 00				80	473	24 02 14 S	47 27 24	250152	7339433	45
IAB390	MV0486	24 45 00 S	47 30 00				124	194	24 39 49 S	47 26 13	253355	7270087	45
IAB391	MV0506	24 45 00 S	47 45 00				260	282	24 37 30 S	47 37 08	234858	7274001	45
IAB392	MV0507	24 45 00 S	47 45 00				57	169	24 40 27 S	47 43 13	224708	7268351	45
IAB393	MV0525	24 45 00 S	47 30 00				429	496	24 31 47 S	47 17 02	268605	7285187	45
IAB394	JD0571	24 45 00 S	48 15 00				393	31	24 43 56 S	48 03 22	797792	7261451	51
IAB395	JD0580	24 45 00 S	48 15 00				196	46	24 43 39 S	48 09 13	797942	7262201	51
IAB396	JD0627	24 45 00 S	48 15 00				200	410	24 33 48 S	48 09 20	788142	7280401	51
IAB397	JD0635	24 45 00 S	48 15 00				410	455	24 32 27 S	48 03 08	798642	7282651	51
IAB398	JD0658	24 45 00 S	48 15 00				75	341	24 35 44 S	48 12 59	781892	7276951	51
IAB399	JD0667	24 45 00 S	48 15 00				93	328	24 36 04 S	48 12 27	782792	7276301	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S R E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB400	JD0673	24 45 00 S	48 15 00				142	206	24 39 21 S	48 10 55	785242	7270201	51
IAB401	GG0306	24 15 00 S	47 15 00				192	500	24 01 33 S	47 09 06	281146	7341216	45
IAB402	GG0317	25 00 00 S	48 00 00				256	302	24 51 59 S	47 52 13	209969	7246762	45
IAB403	GG0317A	25 00 00 S	48 00 00				256	302	24 51 59 S	47 52 13	209969	7246762	45
IAB404	GG0319	25 00 00 S	48 00 00				312	448	24 48 04 S	47 50 28	212769	7254062	45
IAB405	GG0324	24 15 00 S	47 15 00				83	392	24 04 25 S	47 12 22	275696	7335816	45
IAB406	GG0331	25 00 00 S	48 00 00				322	400	24 49 22 S	47 50 12	213269	7251662	45
IAB407	GG0338	24 15 00 S	47 15 00				177	338	24 05 55 S	47 09 37	280396	7333116	45
IAB408	GG0342	24 15 00 S	47 15 00				115	283	24 07 23 S	47 11 28	277296	7330366	45
IAB409	IP0393	24 45 00 S	49 00 00				192	462	24 32 25 S	48 54 31	711861	7284319	51
IAB410	IP0394	24 45 00 S	49 00 00				168	444	24 32 55 S	48 55 13	710661	7283419	51
IAB411	IP0395	24 45 00 S	49 00 00				161	422	24 33 31 S	48 55 25	710311	7282319	51
IAB412	IP0396	24 45 00 S	49 00 00				54	384	24 34 35 S	48 58 34	704961	7280419	51
IAB413	IP0399	24 45 00 S	49 00 00				111	467	24 32 19 S	48 56 55	707811	7284569	51
IAB414	IP0400	24 45 00 S	49 00 00				129	496	24 31 31 S	48 56 24	708711	7286019	51
IAB415	IP0401	24 45 00 S	49 00 00				135	494	24 31 34 S	48 56 13	709011	7285919	51
IAB416	IP0402	24 45 00 S	49 00 00				123	397	24 34 12 S	48 56 32	708411	7281069	51
IAB417	IP0403	24 45 00 S	49 00 00				103	351	24 35 27 S	48 57 06	707411	7278769	51
IAB418	IP0404	24 45 00 S	49 00 00				79	324	24 36 12 S	48 57 48	706211	7277419	51
IAB419	IP0406	24 45 00 S	49 00 00				17	404	24 34 03 S	48 59 40	703111	7281419	51
IAB420	IP0407	24 45 00 S	49 00 00				26	403	24 34 05 S	48 59 24	703561	7281369	51
IAB421	IP0408	24 45 00 S	49 00 00				20	294	24 37 02 S	48 59 32	703261	7275919	51
IAB422	IP0411	24 45 00 S	49 00 00				206	364	24 35 04 S	48 54 03	712561	7279419	51
IAB423	IP0435	24 45 00 S	49 00 00				419	499	24 31 19 S	48 47 49	723211	7286169	51
IAB424	IP0438	24 45 00 S	49 00 00				443	510	24 31 00 S	48 47 07	724411	7286719	51
IAB425	IP0441	24 45 00 S	49 00 00				389	494	24 31 28 S	48 48 42	721711	7285919	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S P E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB426	IP0442	24 45 00 S	49 00 00				240	488	24 31 41 S	48 53 06	714261	7285619	51
IAB427	IP0464	24 45 00 S	49 00 00				439	457	24 32 27 S	48 47 12	724211	7284069	51
IAB428	IP0473	24 45 00 S	48 45 00				100	478	24 32 01 S	48 42 16	732552	7284726	51
IAB429	IP0474	24 45 00 S	48 45 00				171	398	24 34 09 S	48 40 08	736102	7280726	51
IAB430	IP0476	24 45 00 S	48 45 00				173	429	24 33 18 S	48 40 05	736202	7282276	51
IAB431	IP0477	24 45 00 S	48 45 00				128	443	24 32 57 S	48 41 26	733952	7282976	51
IAB432	IP0480	24 45 00 S	48 45 00				48	517	24 30 59 S	48 43 50	729952	7286676	51
IAB433	IP0481	24 45 00 S	48 45 00				96	498	24 31 28 S	48 42 24	732352	7285726	51
IAB434	IP0492	24 45 00 S	49 00 00				495	437	24 32 58 S	48 45 32	727011	7283069	51
IAB435	IP0403A	24 45 00 S	48 45 00				103	351	24 35 27 S	48 42 07	732702	7279376	51
IAB436	IP0407A	24 45 00 S	48 45 00				26	403	24 34 05 S	48 44 26	728852	7280976	51
IAB437	IP0493	24 45 00 S	49 00 00				125	392	24 34 20 S	48 46 28	708511	7280819	51
IAB487	GG0374	25 00 00 S	48 15 00				74	322	24 51 15 S	48 13 00	781282	7249298	51
IAB488	GG0378	25 00 00 S	48 15 00				434	483	24 46 41 S	48 02 26	799282	7256348	51
IAB489	GG0384	25 00 00 S	48 15 00				75	456	24 47 37 S	48 13 03	781332	7254998	51
IAB490	GG0388	25 00 00 S	48 15 00				58	378	24 49 44 S	48 13 30	780482	7251098	51
IAB491	GG0394	25 00 00 S	48 15 00				86	266	24 52 45 S	48 12 37	781882	7245498	51
IAB492	GG0399	25 00 00 S	48 15 00				414	380	24 49 29 S	48 02 57	798282	7251198	51
IAB493	GG0401	25 00 00 S	48 15 00				473	310	24 51 21 S	48 01 10	801232	7247698	51
IAB494	GG0406	25 00 00 S	48 15 00				351	248	24 53 05 S	48 04 44	795132	7244598	51
IAB495	GG0409	25 00 00 S	48 15 00				213	441	24 47 57 S	48 08 57	788232	7254248	51
IAB496	GG0413	25 00 00 S	48 15 00				265	422	24 48 26 S	48 07 24	790832	7253298	51
IAB497	GG0418	25 00 00 S	48 15 00				449	202	24 54 17 S	48 01 48	800032	7242298	51
IAB498	GG0421	25 00 00 S	48 15 00				156	315	24 51 23 S	48 10 34	785382	7247948	51
IAB499	GG0425	25 00 00 S	48 15 00				485	35	24 58 47 S	48 00 37	801832	7233948	51
IAB500	GG0439	25 15 00 S	48 15 00				190	478	25 01 58 S	48 09 39	786517	7228395	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S R E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB504	JP0238	24 45 00 S	48 45 00				349	481	24 31 49 S	48 34 54	745002	7284876	51
IAB505	JP0240	24 45 00 S	48 45 00				352	535	24 30 21 S	48 34 51	745152	7287576	51
IAB506	JP0245	24 45 00 S	48 45 00				403	409	24 33 44 S	48 33 16	747702	7281276	51
IAB507	JP0246	24 45 00 S	48 45 00				431	407	24 33 47 S	48 32 26	749102	7281176	51
IAB508	JP0248	24 45 00 S	48 45 00				482	446	24 32 42 S	48 30 57	751652	7283126	51
IAB509	JP0251	24 45 00 S	48 45 00				339	303	24 36 38 S	48 35 07	744502	7275976	51
IAB510	JP0253	24 45 00 S	48 45 00				356	275	24 37 23 S	48 34 35	745352	7274576	51
IAB511	JP0256	24 45 00 S	48 45 00				433	257	24 37 50 S	48 32 18	749202	7273676	51
IAB512	JP0257	24 45 00 S	48 45 00				435	249	24 38 03 S	48 32 14	749302	7273276	51
IAB513	JP0268	24 45 00 S	48 45 00				434	62	24 43 07 S	48 32 10	749252	7263926	51
IAB514	JP0269	24 45 00 S	48 45 00				441	53	24 43 22 S	48 31 57	749602	7263476	51
IAB515	JP0274	24 45 00 S	48 45 00				455	441	24 32 51 S	48 31 45	750302	7282876	51
IAB516	JP0277	24 45 00 S	48 45 00				450	489	24 31 33 S	48 31 55	750052	7285276	51
IAB517	JP0278	24 45 00 S	48 45 00				439	487	24 31 37 S	48 32 15	749502	7285176	51
IAB518	JP0286	24 45 00 S	48 30 00				49	459	24 32 33 S	48 28 48	755295	7283337	51
IAB519	JP0289	24 45 00 S	48 45 00				491	507	24 31 03 S	48 30 43	752102	7286176	51
IAB520	JP0290	24 45 00 S	48 45 00				482	505	24 31 06 S	48 30 59	751652	7286076	51
IAB521	JP0298	24 45 00 S	48 45 00				87	158	24 40 41 S	48 42 30	731902	7268726	51
IAB522	JP0306	24 45 00 S	48 45 00				295	186	24 39 50 S	48 36 21	742302	7270126	51
IAB523	JP0307	24 45 00 S	48 45 00				282	184	24 39 53 S	48 36 44	741652	7270026	51
IAB524	IP0409	24 45 00 S	49 00 00				221	367	24 34 58 S	48 53 37	713311	7279569	51
IAB525	IP0482	24 45 00 S	48 45 00				63	516	24 31 00 S	48 43 23	730702	7286626	51
IAB526	IP0493	24 45 00 S	48 45 00				81	507	24 31 14 S	48 42 51	731602	7286176	51
IAB527	IP0496	24 45 00 S	48 45 00				91	332	24 35 58 S	48 42 28	732102	7277426	51
IAB528	IP0504	24 45 00 S	48 45 00				20	337	24 35 52 S	48 44 34	728552	7277676	51
IAB529	IP0505	24 45 00 S	48 45 00				25	331	24 36 02 S	48 44 25	728802	7277376	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S R E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB530	IP0508	24 45 00 S	48 45 00				143	388	24 34 26 S	48 40 57	734702	7280226	51
IAB531	IP0512	24 45 00 S	49 00 00				500	390	24 34 14 S	48 45 22	727261	7280719	51
IAB532	IP0513	24 45 00 S	48 45 00				15	382	24 34 39 S	48 44 44	728302	7279926	51
IAB533	IP0525	24 45 00 S	48 45 00				200	326	24 36 05 S	48 39 14	737552	7277126	51
IAB534	IP0527	24 45 00 S	48 30 00				106	432	24 33 15 S	48 27 06	758145	7281987	51
IAB535	IP0528	24 45 00 S	48 30 00				89	435	24 33 11 S	48 27 36	757295	7282137	51
IAB536	IP0540	24 45 00 S	48 30 00				220	340	24 35 41 S	48 23 40	763845	7277387	51
IAB537	IP0547	24 45 00 S	48 30 00				357	348	24 35 24 S	48 19 37	770695	7277787	51
* IAB538	MV0563	24 45 00 S	47 00 00				38	399	24 34 13 S	46 58 42	299639	7281169	45 *
IAB539	MV0575	24 30 00 S	47 15 00				115	215	24 24 14 S	47 11 30	277745	7299271	45 ✓
IAB540	MV0580	24 45 00 S	47 30 00				483	540	24 30 36 S	47 15 25	271305	7287387	45
IAB541	MV0595	25 00 00 S	48 15 00				363	172	24 55 08 S	48 04 20	795732	7240798	51
IAB542	MV0611	25 00 00 S	48 00 00				385	55	24 58 44 S	47 48 32	216419	7234412	45
IAB543	GG0346	25 00 00 S	48 15 00				320	409	24 48 45 S	48 05 46	793582	7252648	51
IAB544	GG0350	25 00 00 S	48 15 00				320	303	24 51 37 S	48 05 41	793582	7247348	51
IAB545	GG0355	25 00 00 S	48 15 00				265	220	24 53 54 S	48 07 16	790832	7243198	51
IAB546	GG0360	25 00 00 S	48 15 00				148	357	24 50 15 S	48 10 50	784982	7250048	51
IAB633	JR0387	24 45 00 S	48 30 00				465	420	24 33 24 S	48 16 28	776095	7281387	51
IAB634	IP0558	24 30 00 S	48 45 00				223	68	24 28 04 S	48 38 26	739155	7291921	51
IAB635	IP0559	24 30 00 S	48 45 00				220	55	24 28 25 S	48 38 31	739005	7291271	51
IAB636	IP0560	24 30 00 S	48 45 00				219	40	24 28 49 S	48 38 32	738955	7290521	51
IAB637	IP0563	24 30 00 S	48 45 00				234	95	24 27 19 S	48 38 08	739705	7293271	51
IAB638	IP0564	24 30 00 S	48 45 00				262	117	24 26 43 S	48 37 19	741105	7294371	51
IAB639	IP0566	24 45 00 S	48 45 00				111	482	24 31 54 S	48 41 57	733102	7284926	51
IAB640	IP0577	24 45 00 S	48 30 00				432	228	24 38 36 S	48 17 20	774445	7271787	51
IAB641	IP0578	24 45 00 S	48 30 00				458	191	24 39 36 S	48 16 32	775745	7269937	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O P N E C I D A S					C O O R D E N A D A S F E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB642	IP0585	24 45 00 S	48 30 00				400	208	24 39 10 S	48 18 16	772845	7270787	51
IAB643	IP0587	24 45 00 S	48 30 00				378	193	24 39 35 S	48 18 55	771745	7270037	51
IAB644	IP0591	24 45 00 S	48 30 00				350	117	24 41 39 S	48 19 42	770345	7266237	51
IAB645	IP0592	24 45 00 S	48 30 00				330	80	24 42 40 S	48 20 16	769345	7264387	51
IAB646	IP0594	24 45 00 S	48 30 00				296	101	24 42 07 S	48 21 17	767645	7265437	51
IAB647	IP0595	24 45 00 S	48 30 00				297	130	24 41 20 S	48 21 16	767695	7266887	51
IAB648	IP0596	24 45 00 S	48 30 00				398	154	24 40 38 S	48 18 18	772745	7268087	51
IAB649	IP0607	24 30 00 S	48 45 00				283	134	24 26 15 S	48 36 42	742155	7295221	51
IAB650	IP0608	24 30 00 S	48 45 00				271	131	24 26 20 S	48 37 03	741555	7295071	51
IAB651	IP0611	24 30 00 S	48 45 00				371	342	24 20 34 S	48 34 12	746555	7305621	51
IAB652	IP0624	24 30 00 S	48 45 00				296	225	24 23 46 S	48 36 21	742805	7299771	51
IAB653	IP0634	24 30 00 S	48 45 00				342	92	24 27 21 S	48 34 56	745105	7293121	51
IAB654	IP0638	24 30 00 S	48 45 00				307	125	24 26 29 S	48 35 59	743355	7294771	51
IAB655	JR0335	24 45 00 S	48 30 00				90	68	24 43 07 S	48 27 22	757345	7263787	51
IAB656	JR0351	24 45 00 S	48 30 00				420	249	24 38 03 S	48 17 42	773945	7272837	51
IAB657	JR0349	24 45 00 S	48 30 00				425	332	24 35 48 S	48 17 36	774095	7276987	51
IAB658	JR0352	24 45 00 S	48 30 00				465	201	24 39 19 S	48 16 20	776095	7270437	51
IAB659	JR0355	24 45 00 S	48 30 00				484	120	24 41 30 S	48 15 44	777045	7266387	51
IAB660	JR0356	24 45 00 S	48 30 00				352	147	24 40 50 S	48 19 39	770445	7267737	51
IAB661	JR0359	24 45 00 S	48 30 00				335	73	24 42 51 S	48 20 07	769595	7264037	51
IAB662	JR0360	24 45 00 S	48 30 00				345	57	24 43 17 S	48 19 48	770095	7263237	51
IAB663	JR0362	24 45 00 S	48 30 00				335	36	24 43 51 S	48 20 06	769595	7262187	51
IAB664	JR0363	24 45 00 S	48 30 00				313	16	24 44 24 S	48 20 44	768495	7261187	51
IAB665	JR0364	24 45 00 S	48 30 00				302	19	24 44 22 S	48 21 04	767945	7261287	51
IAB666	JR0365	24 45 00 S	48 30 00				360	217	24 38 57 S	48 19 27	770845	7271237	51
IAB667	JR0366	24 45 00 S	48 30 00				350	200	24 39 24 S	48 19 45	770345	7270387	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB668	JR0367	24 45 00 S	48 30 00				251	135	24 41 13 S	48 22 38	765395	7267137	51
IAB669	JR0368	24 45 00 S	48 30 00				243	122	24 41 34 S	48 22 52	764995	7266487	51
IAB670	JR0370	24 45 00 S	48 30 00				227	93	24 42 22 S	48 23 19	764195	7265037	51
IAB671	JR0371	24 45 00 S	48 30 00				234	90	24 42 27 S	48 23 07	764545	7264887	51
IAB672	JR0373	24 45 00 S	48 30 00				442	370	24 34 45 S	48 17 07	774945	7278887	51
IAB673	JR0375	24 45 00 S	48 30 00				402	370	24 34 47 S	48 18 18	772945	7278887	51
IAB674	JR0380	24 45 00 S	48 30 00				205	248	24 38 11 S	48 24 04	763095	7272787	51
IAB675	JR0384	24 45 00 S	48 30 00				129	263	24 37 49 S	48 26 19	759295	7273537	51
IAB676	JR0385	24 45 00 S	48 30 00				142	270	24 37 37 S	48 25 56	759945	7273887	51
IAB677	AM0228	25 00 00 S	48 45 00				365	47	24 58 33 S	48 34 11	745344	7235480	51
IAB678	AM0229	25 00 00 S	48 45 00				376	63	24 58 07 S	48 33 52	745894	7236280	51
IAB679	AM0231	25 00 00 S	48 45 00				377	105	24 56 59 S	48 33 51	745944	7238380	51
IAB680	AM0234	25 00 00 S	48 45 00				370	170	24 55 14 S	48 34 06	745594	7241630	51
IAB681	AM0235	25 00 00 S	48 45 00				375	185	24 54 49 S	48 33 58	745844	7242380	51
IAB682	FB0201	25 00 00 S	48 30 00				426	111	24 56 46 S	48 17 25	773637	7238237	51
IAB683	FB0202	25 00 00 S	48 30 00				361	103	24 57 02 S	48 19 20	770387	7237837	51
IAB684	FB0203	25 00 00 S	48 30 00				331	80	24 57 40 S	48 20 13	768887	7236697	51
IAB685	FB0207	25 00 00 S	48 30 00				170	82	24 57 42 S	48 25 00	760837	7236787	51
IAB686	FB0208	25 00 00 S	48 30 00				141	86	24 57 36 S	48 25 52	759287	7236987	51
IAB687	FB0215	25 15 00 S	48 30 00				369	553	24 59 51 S	48 19 23	770223	7232637	51
IAB688	JR0311	24 45 00 S	48 30 00				453	325	24 35 58 S	48 16 46	775495	7276637	51
IAB689	JR0313	24 45 00 S	48 30 00				438	290	24 36 56 S	48 17 11	774745	7274887	51
IAB690	JR0317	24 45 00 S	48 45 00				268	280	24 37 18 S	48 37 12	740952	7274826	51
IAB691	JR0318	24 45 00 S	48 45 00				238	265	24 37 43 S	48 38 05	739452	7274076	51
IAB692	JR0319	24 45 00 S	48 45 00				245	230	24 38 25 S	48 37 52	739802	7272776	51
IAB693	JR0320	24 45 00 S	48 45 00				210	240	24 38 24 S	48 38 54	738052	7272826	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB694	JR0325	24 45 00 S	48 45 00				145	179	24 40 05 S	48 40 47	734802	7269776	51
IAB695	JR0326	24 45 00 S	48 45 00				122	183	24 39 59 S	48 41 28	733652	7269976	51
IAB696	JR0329	24 45 00 S	48 45 00				204	228	24 38 44 S	48 39 04	737752	7272226	51
IAB697	JR0330	24 45 00 S	48 30 00				38	7	24 44 47 S	48 28 53	754745	7260737	51
IAB698	JR0332	24 45 00 S	48 30 00				73	40	24 43 53 S	48 27 52	756495	7262397	51
IAB699	JD0775	24 15 00 S	48 00 00				165	126	24 11 41 S	47 55 03	203604	7321091	45
IAB700	JD0777	24 15 00 S	48 00 00				131	144	24 11 11 S	47 56 03	201904	7321981	45
IAB701	JD0783	24 15 00 S	48 00 00				36	171	24 10 24 S	47 58 50	197154	7323331	45
IAB702	JD0796	24 15 00 S	48 00 00				311	201	24 09 44 S	47 50 42	210904	7324831	45
IAB703	JD0801	24 15 00 S	48 00 00				356	135	24 11 33 S	47 49 25	213154	7321531	45
IAB704	JD0803	24 15 00 S	48 00 00				414	148	24 11 14 S	47 47 42	216054	7322181	45
IAB705	JD0808	24 15 00 S	47 45 00				73	204	24 09 31 S	47 42 44	224404	7325505	45
IAB706	JD0814	24 15 00 S	47 45 00				512	156	24 11 02 S	47 29 48	246354	7323105	45
IAB707	JD0818	24 15 00 S	47 45 00				31	101	24 12 17 S	47 44 02	222304	7320355	45
IAB708	JD0818	24 15 00 S	47 45 00				31	101	24 12 17 S	47 44 02	222304	7320355	45
IAB709	JD0823	24 15 00 S	47 45 00				190	143	24 11 14 S	47 39 19	230254	7322455	45
IAB710	JD0826	24 15 00 S	47 45 00				193	110	24 12 07 S	47 39 14	230404	7320805	45
IAB711	AM0200	25 00 00 S	48 30 00				453	157	24 55 31 S	48 16 38	774987	7240537	51
IAB712	AM0209	25 15 00 S	48 45 00				389	395	25 04 07 S	48 33 38	746082	7225183	51
IAB713	AM0213	25 15 00 S	48 45 00				389	424	25 03 20 S	48 33 39	746082	7226633	51
IAB714	AM0214	25 15 00 S	48 45 00				439	483	25 01 43 S	48 32 12	748582	7229583	51
IAB715	AM0215	25 15 00 S	48 45 00				477	501	25 01 13 S	48 31 05	750482	7230483	51
IAB716	AM0216	25 00 00 S	48 30 00				68	114	24 56 53 S	48 28 03	755737	7238387	51
IAB717	AM0222	25 15 00 S	48 45 00				347	480	25 01 51 S	48 34 56	743982	7229433	51
IAB718	AM0223	25 15 00 S	48 45 00				332	510	25 01 02 S	48 35 23	743232	7230933	51
IAB719	AM0226	25 00 00 S	48 45 00				328	7	24 59 39 S	48 35 16	743494	7233480	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GFRAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB720	AM0227	25 00 00 S	48 45 00				350	28	24 59 05 S	48 34 37	744594	7234530	51
IAB721	GG0455	25 00 00 S	48 15 00				163	183	24 54 57 S	48 10 16	785732	7241348	51
IAB722	GG0457	25 00 00 S	48 15 00				143	163	24 55 31 S	48 10 51	784732	7240348	51
IAB723	GG0458	25 00 00 S	48 15 00				134	141	24 56 07 S	48 11 06	784282	7239248	51
IAB724	GG0459	25 00 00 S	48 15 00				130	120	24 56 41 S	48 11 13	784082	7238198	51
IAB725	GG0463	25 00 00 S	48 15 00				101	38	24 58 55 S	48 12 01	782632	7234098	51
IAB726	GG0464	25 00 00 S	48 15 00				86	47	24 58 41 S	48 12 29	781882	7234548	51
IAB727	GG0469	25 15 00 S	48 15 00				197	539	25 00 18 S	48 09 29	786867	7231445	51
IAB728	GG0470	25 15 00 S	48 15 00				172	540	25 00 17 S	48 10 13	785617	7231495	51
IAB729	GG0471	25 15 00 S	48 15 00				151	540	25 00 18 S	48 10 51	784567	7231495	51 *
IAB730	GG0479	25 15 00 S	48 15 00				125	482	25 01 53 S	48 11 35	783267	7228595	51
IAB731	JD0689	24 45 00 S	48 15 00				395	212	24 39 02 S	48 03 26	797892	7270501	51
IAB732	JD0690	24 45 00 S	48 15 00				450	386	24 34 18 S	48 01 55	800642	7279201	51
IAB733	JD0698	24 45 00 S	48 15 00				66	118	24 41 46 S	48 13 07	781442	7265901	51
IAB734	JD0700	24 45 00 S	48 15 00				108	127	24 41 30 S	48 11 53	783542	7266251	51
IAB735	JD0703	24 45 00 S	48 15 00				170	94	24 42 22 S	48 10 01	786642	7264601	51
IAB736	JD0722	24 45 00 S	48 15 00				247	191	24 39 42 S	48 07 48	790492	7259451	51
IAB737	JD0727	24 45 00 S	48 15 00				365	182	24 39 52 S	48 04 18	796392	7269001	51
IAB738	JD0738	24 45 00 S	48 15 00				247	257	24 37 55 S	48 07 50	790492	7272751	51
IAB739	JS0745	24 45 00 S	48 15 00				63	476	24 32 05 S	48 13 25	781292	7283701	51
IAB740	JD0746	24 45 00 S	48 15 00				63	507	24 31 15 S	48 13 26	781292	7285251	51
IAB741	JD0765	24 15 00 S	48 00 00				235	125	24 11 45 S	47 52 59	207104	7321031	45
IAB742	JD0770	24 15 00 S	48 00 00				300	156	24 10 57 S	47 51 03	210354	7322591	45
IAB743	MV0624	25 15 00 S	48 15 00				464	226	25 08 37 S	48 01 21	800217	7215795	51
IAB744	MV0625	25 15 00 S	48 15 00				426	116	25 11 37 S	48 02 24	798317	7210295	51
IAB745	MV0627	25 15 00 S	48 00 00				42	178	25 10 13 S	47 58 38	199885	7212855	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB746	MV0631	25 15 00 S	47 15 00				138	311	25 06 39 S	47 10 45	280268	7220983	45
IAB747	MV0632	25 15 00 S	48 00 00				139	340	25 05 53 S	47 55 39	204735	7220955	45
IAB748	MV0639	25 15 00 S	48 00 00				181	310	25 06 43 S	47 54 25	206835	7219455	45
IAB749	MV0644	25 15 00 S	48 00 00				168	280	25 07 31 S	47 54 49	206185	7217955	45
IAB750	MV0660	25 15 00 S	48 00 00				117	210	25 09 23 S	47 56 23	203635	7214455	45
IAB751	MV0663	25 15 00 S	48 00 00				78	230	25 08 49 S	47 57 32	201695	7215455	45
IAB752	MV0666	25 00 00 S	48 00 00				77	347	24 50 39 S	47 57 29	201019	7249012	45
IAB753	JL0589	24 15 00 S	47 30 00				325	281	24 07 33 S	47 20 16	262402	7329833	45
IAB754	JL0604	24 15 00 S	48 15 00				281	12	24 14 31 S	48 06 43	793296	7315905	51
IAB755	JL0609	24 15 00 S	48 15 00				269	46	24 13 36 S	48 07 05	792696	7317605	51
IAB756	JL0613	24 15 00 S	48 15 00				393	68	24 12 57 S	48 03 27	798896	7318705	51
IAB757	JL0614	24 15 00 S	48 15 00				398	71	24 12 52 S	48 03 18	799146	7318855	51
IAB758	JL0617	24 15 00 S	48 15 00				396	51	24 13 24 S	48 03 21	799046	7317855	51
IAB759	JL0618	24 15 00 S	48 15 00				403	26	24 14 04 S	48 03 07	799296	7316605	51
IAB760	JL0622	24 15 00 S	48 15 00				450	27	24 14 01 S	48 01 44	801746	7316655	51
IAB761	JL0624	24 15 00 S	48 15 00				462	12	24 14 25 S	48 01 22	802346	7315905	51
IAB762	GG0364	25 00 00 S	48 15 00				132	477	24 47 01 S	48 11 22	784182	7256048	51
IAB763	GG0405	25 00 00 S	48 15 00				451	237	24 53 20 S	48 01 46	800132	7244048	51
IAB764	GG0448	25 00 00 S	48 00 00				418	319	24 51 37 S	47 47 24	218069	7247612	45
IAB924	AM0264	25 00 00 S	48 30 00				118	163	24 55 32 S	48 26 35	758237	7240837	51
IAB925	AM0265	25 00 00 S	48 30 00				121	160	24 55 37 S	48 26 30	758387	7240687	51
IAB926	AM0269	25 00 00 S	48 30 00				30	164	24 55 33 S	48 26 12	753837	7240887	51
IAB927	AM0271	25 00 00 S	48 30 00				30	193	24 54 46 S	48 26 13	753837	7242337	51
IAB928	AM0273	25 00 00 S	48 30 00				62	235	24 53 37 S	48 28 17	755437	7244437	51
IAB929	AM0274	25 00 00 S	48 30 00				74	218	24 54 04 S	48 27 55	756037	7243587	51
IAB930	AM0280	25 00 00 S	48 45 00				440	470	24 47 04 S	48 32 11	749094	7256630	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB931	AM0286	25 00 00 S	48 30 00				44	233	24 53 40 S	48 28 49	754537	7244337	51
IAB932	AM0287	25 00 00 S	48 30 00				51	267	24 52 45 S	48 28 38	754887	7246037	51
IAB933	AM0293	25 00 00 S	48 30 00				91	320	24 51 18 S	48 27 29	756887	7248687	51
IAB934	AM0294	25 00 00 S	48 30 00				108	302	24 51 46 S	48 26 58	757737	7247797	51
IAB935	AM0299	25 00 00 S	48 30 00				34	368	24 50 01 S	48 29 12	754037	7251087	51
IAB936	AM0302	25 00 00 S	48 30 00				20	358	24 50 18 S	48 29 36	753337	7250587	51
IAB937	AM0306	25 00 00 S	48 30 00				48	442	24 48 01 S	48 28 49	754737	7254787	51
IAB938	AM0312	25 00 00 S	48 30 00				126	514	24 46 01 S	48 26 33	758637	7258287	51
IAB939	AM0315	24 45 00 S	48 30 00				175	2	24 44 51 S	48 24 49	761595	7260487	51
IAB940	AM0317	25 00 00 S	48 30 00				131	523	24 45 47 S	48 26 24	758887	7258837	51
IAB941	AM0318	25 00 00 S	48 30 00				336	385	24 49 24 S	48 20 15	769137	7251937	51
IAB942	AM0319	25 00 00 S	48 30 00				382	326	24 50 59 S	48 18 51	771437	7249987	51
IAB943	AM0321	25 00 00 S	48 30 00				289	407	24 48 50 S	48 21 39	766787	7253037	51
IAB944	AM0324	25 00 00 S	48 30 00				274	395	24 49 10 S	48 22 05	766037	7252437	51
IAB945	AM0325	25 00 00 S	48 30 00				248	430	24 48 14 S	48 22 53	764737	7254187	51
IAB946	AM0327	25 00 00 S	48 30 00				206	445	24 47 51 S	48 24 08	762637	7254937	51
IAB947	AM0330	25 00 00 S	48 30 00				190	444	24 47 53 S	48 24 36	761837	7254887	51
IAB948	AM0334	25 00 00 S	48 30 00				125	447	24 47 50 S	48 26 32	758987	7255037	51
IAB949	AM0339	24 45 00 S	48 30 00				66	49	24 43 39 S	48 28 40	755145	7262837	51
IAB950	AM0341	24 45 00 S	48 30 00				54	49	24 43 39 S	48 28 26	755545	7262837	51
IAB951	FB0223	25 00 00 S	48 45 00				421	235	24 53 26 S	48 32 37	748144	7244880	51
IAB952	FB0224	25 00 00 S	48 45 00				427	260	24 52 46 S	48 32 27	748444	7246130	51
IAB953	FB0230	25 00 00 S	48 45 00				394	376	24 49 38 S	48 33 30	746794	7251930	51
IAB954	FB0234	25 15 00 S	48 30 00				377	510	25 01 00 S	48 19 05	770673	7230487	51
IAB955	FB0236	25 15 00 S	48 30 00				365	499	25 01 18 S	48 19 26	770073	7229937	51
IAB956	FB0241	25 15 00 S	48 30 00				443	532	25 00 22 S	48 17 08	773973	7231587	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB957	FB0246	25 00 00 S	48 30 00				367	285	24 52 06 S	48 19 16	770687	7245937	51
IAB958	FB0255	25 00 00 S	48 15 00				23	341	24 50 46 S	48 14 31	778732	7249248	51
IAB959	FB0257	25 00 00 S	48 30 00				495	356	24 50 06 S	48 15 31	777087	7250487	51
IAB960	FB0263	25 00 00 S	48 30 00				410	390	24 49 14 S	48 18 03	772837	7252187	51
IAB961	FB0266	25 00 00 S	48 30 00				457	402	24 48 53 S	48 16 40	775187	7252787	51
IAB962	FB0267	25 00 00 S	48 30 00				458	408	24 48 43 S	48 16 38	775237	7253087	51
IAB963	FB0275	25 00 00 S	48 15 00				22	442	24 48 02 S	48 14 37	778682	7254298	51
IAB964	FB0276	25 00 00 S	48 15 00				72	503	24 46 21 S	48 13 10	781182	7257348	51
IAB965	FB0277	25 00 00 S	48 15 00				85	494	24 46 35 S	48 12 47	781832	7256898	51
IAB966	FB0283	25 00 00 S	48 15 00				1	507	24 46 17 S	48 15 16	777632	7257548	51
IAB967	FB0284	25 00 00 S	48 15 00				8	514	24 46 05 S	48 15 04	777982	7257898	51
IAB968	FB0300	25 00 00 S	48 30 00				257	155	24 55 40 S	48 22 27	765187	7240437	51
IAB969	JF0395	24 45 00 S	48 30 00				411	497	24 31 20 S	48 18 07	773395	7285237	51
IAB970	JR0397	24 45 00 S	48 30 00				373	459	24 32 25 S	48 19 13	771495	7283287	51
IAB971	JR0399	24 45 00 S	48 30 00				374	450	24 32 38 S	48 19 11	771545	7282887	51
IAB972	JP0400	24 45 00 S	48 30 00				23	463	24 32 27 S	48 29 34	753995	7283537	51
IAB973	JF0401	24 45 00 S	48 30 00				51	473	24 32 10 S	48 28 45	755395	7284037	51
IAB974	JP0403	24 45 00 S	48 30 00				126	346	24 35 34 S	48 26 27	759145	7277687	51
IAB975	JP0405	24 45 00 S	48 30 00				82	358	24 35 16 S	48 27 46	756945	7278287	51
IAB976	JP0408	24 45 00 S	48 30 00				26	317	24 36 24 S	48 29 24	754145	7276237	51
IAB977	JR0409	24 45 00 S	48 30 00				35	301	24 36 50 S	48 29 08	754595	7275437	51
IAB978	JP0410	24 45 00 S	48 30 00				240	405	24 33 55 S	48 23 07	764845	7280637	51
IAB979	JR0412	24 45 00 S	48 30 00				251	451	24 32 40 S	48 22 49	765395	7282937	51
IAB980	JR0414	24 45 00 S	48 30 00				284	540	24 30 14 S	48 21 53	767045	7287387	51
IAB981	JP0415	24 30 00 S	48 30 00				301	14	24 29 28 S	48 21 06	768399	7288785	51
IAB982	JP0416	24 45 00 S	48 30 00				284	540	24 30 14 S	48 21 53	767045	7287387	51

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S P E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAB983	JP0419	24 45 00 S	48 30 00				96	301	24 36 48 S	48 27 19	757645	7275437	51
IAB984	JP0420	24 45 00 S	48 30 00				103	287	24 37 11 S	48 27 06	757995	7274737	51
IAB985	JP0421	24 45 00 S	48 30 00				191	317	24 36 19 S	48 24 31	762395	7276237	51
IAB986	JP0422	24 45 00 S	48 30 00				195	433	24 33 11 S	48 24 28	762595	7282037	51
IAB987	JP0423	24 45 00 S	48 30 00				325	352	24 35 18 S	48 20 34	769095	7277997	51
IAB988	JP0425	24 45 00 S	48 30 00				158	494	24 31 33 S	48 25 35	760745	7285087	51
IAB989	JP0426	24 45 00 S	48 30 00				199	500	24 31 22 S	48 24 23	762795	7285387	51
IAB990	JP0428	24 45 00 S	48 30 00				86	518	24 30 56 S	48 27 44	757145	7286287	51
IAB991	JP0429	24 45 00 S	48 30 00				64	530	24 30 37 S	48 28 24	756045	7286887	51
IAB992	JP0432	24 30 00 S	48 30 00				83	53	24 28 31 S	48 27 34	757499	7290735	51
IAB993	JP0433	24 30 00 S	48 30 00				97	62	24 28 16 S	48 27 10	758199	7291185	51
IAB994	JP0434	24 30 00 S	48 30 00				94	104	24 27 08 S	48 27 17	758049	7293295	51
IAB995	JP0435	24 30 00 S	48 30 00				120	150	24 25 53 S	48 26 32	759349	7295585	51
IAB996	JP0436	24 30 00 S	48 30 00				144	152	24 25 49 S	48 25 49	760549	7295685	51
IAB997	JP0439	24 30 00 S	48 30 00				182	209	24 24 15 S	48 24 44	762449	7298535	51
IAB998	JP0440	24 30 00 S	48 30 00				134	183	24 24 59 S	48 26 08	760049	7297235	51
IAB999	JP0442	24 30 00 S	48 30 00				40	70	24 28 05 S	48 28 51	755349	7291585	51
IAC001	JP0448	24 45 00 S	48 30 00				400	547	24 29 59 S	48 18 28	772845	7287737	51
IAC002	JP0450	24 30 00 S	48 30 00				403	32	24 28 56 S	48 18 06	773499	7289685	51
IAC003	JP0453	24 30 00 S	48 30 00				381	104	24 27 00 S	48 18 47	772399	7293285	51
IAC004	JP0454	24 30 00 S	48 30 00				372	197	24 24 29 S	48 19 07	771949	7297935	51
IAC005	JP0454	24 30 00 S	48 30 00				372	197	24 24 29 S	48 19 07	771949	7297935	51
IAC006	IP0647	24 30 00 S	48 45 00				468	364	24 19 56 S	48 31 21	751405	7306721	51
IAC007	IP0650	24 30 00 S	48 45 00				395	304	24 21 35 S	48 33 28	747755	7303721	51
IAC008	IP0659	24 30 00 S	48 45 00				488	397	24 19 02 S	48 30 46	752405	7308371	51
IAC009	IP0651	24 30 00 S	48 45 00				505	412	24 18 37 S	48 30 17	753255	7309121	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAC010	IP0689	24 30 00 S	48 45 00				391	444	24 17 48 S	48 33 40	747555	7310721	51
IAC011	IP0691	24 30 00 S	48 45 00				392	424	24 18 21 S	48 33 37	747605	7309721	51
IAC012	IP0695	24 30 00 S	48 45 00				498	355	24 20 10 S	48 30 27	752905	7306271	51
IAC013	IP0696	24 30 00 S	48 45 00				502	231	24 23 31 S	48 30 16	753105	7300071	51
IAC014	IP0699	24 30 00 S	48 45 00				503	138	24 26 02 S	48 30 12	753155	7295421	51
IAC015	IP0700	24 30 00 S	48 45 00				487	91	24 27 19 S	48 30 38	752355	7293071	51
IAC016	IP0702	24 30 00 S	48 45 00				489	69	24 27 54 S	48 30 34	752455	7291971	51
IAC017	IP0704	24 30 00 S	49 30 00				10	64	24 28 16 S	49 29 43	652489	7292753	51
IAC018	IP0705	24 30 00 S	48 45 00				499	34	24 29 51 S	48 30 15	752955	7290221	51
IAC019	IP0706	24 45 00 S	48 45 00				473	514	24 30 52 S	48 31 15	751202	7286526	51
IAC020	IP0711	24 30 00 S	48 30 00				397	109	24 26 51 S	48 18 19	773199	7293535	51
IAC021	IP0712	24 30 00 S	48 30 00				380	117	24 26 38 S	48 18 50	772349	7293935	51
IAC022	IP0713	24 30 00 S	48 30 00				349	174	24 25 07 S	48 19 47	770799	7296785	51
IAC023	IP0714	24 30 00 S	48 45 00				497	45	24 28 33 S	48 30 19	752855	7290771	51
IAC024	GG0492	25 15 00 S	48 15 00				168	370	25 04 54 S	48 10 14	785417	7222995	51
IAC025	GG0493	25 15 00 S	48 15 00				155	363	25 05 05 S	48 10 37	784767	7222645	51
IAC026	GG0497	25 15 00 S	48 15 00				120	350	25 05 28 S	48 11 39	783017	7221995	51
IAC027	GG0500	25 15 00 S	48 15 00				120	403	25 04 02 S	48 11 41	783017	7224645	51
IAC028	GG0501	25 15 00 S	48 15 00				330	383	25 04 27 S	48 05 26	793517	7223645	51
IAC029	GG0503	25 15 00 S	48 15 00				350	186	25 09 46 S	48 04 42	794517	7213795	51
IAC030	GG0505	25 15 00 S	48 15 00				335	200	25 09 24 S	48 05 10	793767	7214495	51
IAC031	GG0506	25 15 00 S	48 15 00				290	232	25 08 34 S	48 06 49	791017	7216095	51
IAC032	GG0509	25 15 00 S	48 15 00				330	343	25 05 32 S	48 05 24	793517	7221645	51
IAC033	GG0510	25 15 00 S	48 15 00				324	292	25 06 55 S	48 05 33	793217	7219095	51
IAC034	GG0512	25 15 00 S	48 15 00				320	231	25 08 34 S	48 05 38	793017	7216045	51
IAC035	GG0522	24 15 00 S	47 15 00				465	281	24 07 35 S	47 01 09	294796	7330266	45

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S P E A T S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAC036	GG0523	24 15 00 S	47 15 00				456	278	24 07 40 S	47 01 25	294346	7330116	45
IAC037	GG0526	24 15 00 S	47 15 00				410	260	24 08 08 S	47 02 47	292046	7329216	45
IAC038	GG0528	24 15 00 S	47 15 00				379	253	24 08 18 S	47 03 42	290496	7328866	45
IAC039	GG0532	24 15 00 S	47 15 00				350	245	24 08 31 S	47 04 33	289046	7328466	45
IAC040	GG0537	24 15 00 S	47 15 00				300	219	24 09 12 S	47 06 03	286546	7327166	45
IAC041	GG0545	25 00 00 S	48 15 00				248	19	24 59 21 S	48 07 39	789982	7233148	51
IAC042	GG0547	25 00 00 S	48 15 00				244	34	24 58 57 S	48 07 47	789782	7233898	51
IAC043	GG0549	25 00 00 S	48 15 00				208	46	24 58 38 S	48 08 51	787982	7234498	51
IAC044	GG0550	25 00 00 S	48 15 00				206	38	24 58 51 S	48 08 54	787882	7234098	51
IAC045	GG0551	25 00 00 S	48 15 00				199	43	24 58 44 S	48 09 07	787532	7234348	51
IAC046	MU0680	25 15 00 S	48 15 00				220	278	25 07 21 S	48 08 38	789017	7218395	51
IAC047	MU0682	25 15 00 S	48 15 00				194	340	25 05 41 S	48 09 27	786717	7221495	51
IAC048	MV0684	25 15 00 S	48 15 00				421	104	25 11 57 S	48 02 33	798067	7209695	51
IAC049	MV0694	25 15 00 S	48 15 00				448	85	25 12 27 S	48 01 44	799417	7208745	51
IAC050	MV0699	25 15 00 S	48 15 00				195	110	25 11 55 S	48 09 16	786767	7209995	51
IAC051	MV0700	25 15 00 S	48 15 00				234	115	25 11 45 S	48 08 07	788717	7210245	51
IAC052	MV0709	25 15 00 S	48 15 00				297	193	25 09 37 S	48 06 17	791867	7214145	51
IAC053	MV0714	25 15 00 S	48 15 00				246	202	25 09 24 S	48 07 49	789317	7214595	51
IAC054	MV0724	24 15 00 S	47 15 00				210	221	24 09 06 S	47 08 42	282046	7327266	45
IAC055	MV0729	24 15 00 S	47 15 00				205	198	24 09 44 S	47 08 51	281796	7326116	45
IAC056	MV0731	24 15 00 S	47 15 00				225	223	24 09 03 S	47 08 15	282796	7327366	45
IAC057	MV0735	24 15 00 S	47 15 00				238	182	24 10 10 S	47 07 53	283446	7325316	45
IAC058	MV0737	24 15 00 S	47 15 00				236	233	24 08 47 S	47 07 56	283346	7327866	45
IAC059	MV0741	24 15 00 S	47 15 00				261	254	24 08 14 S	47 07 11	284596	7328916	45
IAC060	MV0745	24 15 00 S	47 15 00				200	244	24 08 29 S	47 08 59	281546	7328416	45
IAC061	MV0747	24 15 00 S	47 15 00				177	254	24 08 09 S	47 09 39	280396	7329016	45

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S					C O O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-OPD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-OPD.	MC
IAC062	MV0749	24 15 00 S	47 15 00				161	238	24 08 37 S	47 10 08	279596	7328116	45
IAC063	MV0752	24 15 00 S	47 15 00				137	243	24 08 29 S	47 10 51	278396	7328366	45
IAC064	MV0755	24 15 00 S	47 15 00				120	225	24 08 58 S	47 11 21	277546	7327466	45
IAC065	MV0761	24 15 00 S	47 15 00				40	199	24 09 38 S	47 13 43	273546	7326166	45
IAC066	MV0762	24 15 00 S	47 15 00				42	164	24 10 35 S	47 13 41	273646	7324416	45
IAC067	MV0764	24 15 00 S	47 15 00				48	157	24 10 46 S	47 13 31	273946	7324066	45
IAC068	MV0777	24 15 00 S	47 15 00				118	89	24 12 38 S	47 11 28	277446	7320666	45
IAC069	MV0780	24 15 00 S	47 15 00				123	104	24 12 14 S	47 11 19	277696	7321416	45
IAC070	JL0637	24 15 00 S	47 30 00				295	175	24 10 24 S	47 21 12	260907	7324533	45
IAC071	JL0647	25 15 00 S	48 45 00				418	518	25 00 47 S	48 32 50	747532	7231333	51
IAC072	JD0853	24 15 00 S	47 45 00				503	446	24 03 11 S	47 29 55	245904	7337605	45
IAC073	JD0863	24 15 00 S	48 00 00				382	558	24 00 07 S	47 48 24	214454	7342681	45
IAC074	JD0867	24 30 00 S	48 30 00				452	294	24 21 49 S	48 16 48	775949	7302785	51
IAC075	JD0868	24 30 00 S	48 30 00				440	291	24 21 54 S	48 17 09	775349	7302635	51
IAC076	JD0868A	24 30 00 S	48 30 00				440	291	24 21 54 S	48 17 09	775349	7302635	51
IAC077	MV0759	24 15 00 S	47 15 00				77	195	24 09 45 S	47 12 38	275396	7325966	45
IAC078	AM0316	25 00 00 S	48 30 00				167	525	24 45 42 S	48 25 20	760687	7258937	51
IAC079	GG0556	24 00 00 S	47 30 30				56	173	23 55 21 S	47 28 46	247609	7352115	45
IAC080	GG0568	24 00 00 S	47 30 00				351	140	23 56 22 S	47 19 35	263207	7350480	45
IAC081	GG0572	24 00 00 S	47 30 00				355	32	23 59 18 S	47 19 14	263907	7345080	45
IAC082	GG0580	24 00 00 S	47 30 00				348	98	23 57 31 S	47 19 42	263057	7348380	45
IAC083	GG0591	24 00 00 S	47 15 00				85	58	23 58 28 S	47 12 28	275351	7346810	45
IAC084	MV0788	24 00 00 S	47 30 00				92	118	23 56 51 S	47 27 14	250257	7349380	45
IAC085	MV0792	24 30 00 S	47 15 00				60	505	24 16 21 S	47 12 59	274995	7313771	45
IAC086	MV0830	24 30 00 S	47 15 00				463	74	24 28 11 S	47 01 16	295145	7292221	45
IAC087	MV0842	24 30 00 S	47 15 00				85	369	24 20 03 S	47 12 19	276245	7306971	45

SISTEMA DE ESTATÍSTICA DE AMOSTRAGEM GEOQUÍMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O R N E C I D A S						C O O R D E N A D A S R E A I S					
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAC088	MV0850	24 30 00 S	47 30 00				476	279	24 22 40 S	47 15 47	270451	7302035	45
IAC089	MV0859	24 15 00 S	47 15 00				89	452	24 02 48 S	47 12 10	275996	7338816	45
IAC090	MV0863	24 15 00 S	47 15 00				19	339	24 05 50 S	47 14 17	272496	7333166	45
IAC091	JD0855	24 30 00 S	48 30 00				495	313	24 21 16 S	48 15 33	778099	7303735	51
IAC092	JD0855A	24 30 00 S	48 30 00				495	313	24 21 16 S	48 15 33	778099	7303735	51
IAC093	JD0872	24 15 00 S	48 00 00				210	248	24 08 25 S	47 53 39	205854	7327181	45
IAC094	JD0875	24 15 00 S	48 00 00				137	262	24 07 59 S	47 55 48	202204	7327881	45
IAC095	JD0877	24 15 00 S	48 45 00				70	268	24 07 43 S	48 43 04	731954	7329616	51
IAC096	JD0887A	24 45 00 S	48 15 00				457	511	24 30 55 S	48 01 47	800992	7285451	51
IAC097	JD0887B	24 45 00 S	48 15 00				457	511	24 30 55 S	48 01 47	800992	7285451	51
IAC098	JL0649	24 15 00 S	48 00 00				340	390	24 04 38 S	47 49 44	212354	7334281	45
IAC099	JL0650	24 15 00 S	48 00 00				340	385	24 04 46 S	47 49 44	212354	7334031	45
IAC100	JL0652	24 15 00 S	48 00 00				387	369	24 05 14 S	47 48 22	214704	7333231	45
IAC101	JL0654	24 15 00 S	48 00 00				440	344	24 05 56 S	47 46 49	217354	7331981	45
IAC102	IP0716	24 30 00 S	48 30 00				17	258	24 23 00 S	48 29 38	754199	7300985	51
IAC103	IP0718	24 30 00 S	48 30 00				23	268	24 22 44 S	48 29 28	754499	7301485	51
IAC104	JR0446	24 30 00 S	48 30 00				315	423	24 18 24 S	48 20 55	769099	7309235	51
IAC105	JR0465	24 30 00 S	48 30 00				271	312	24 21 25 S	48 22 10	766899	7303685	51
IAC106	JF0471	24 30 00 S	48 30 00				267	378	24 19 38 S	48 22 19	766699	7306985	51
IAC107	FB0301	25 00 00 S	48 30 00				496	185	24 54 44 S	48 15 23	777137	7241937	51
IAC108	FB0302	25 00 00 S	48 30 00				496	180	24 54 52 S	48 15 23	777137	7241687	51
IAC109	FB0303	25 00 00 S	48 30 00				381	132	24 56 14 S	48 18 46	771387	7239287	51
IAC110	FB0319	25 00 00 S	48 30 00				165	123	24 56 35 S	48 25 10	760587	7238837	51
IAC111	FB0320	25 00 00 S	48 30 00				292	20	24 59 19 S	48 21 20	766937	7233687	51
IAC112	FB0307	25 00 00 S	48 30 00				448	530	24 45 25 S	48 17 01	774737	7259187	51
IAC176	JL0657	24 15 00 S	48 15 00				400	127	24 11 21 S	48 03 16	799246	7321655	51

SISTEMA DE ESTATISTICA DE AMOSTRAGEM GEOQUIMICA

ARQUIVO GERAL DO PROJETO SUDELPA

A M O S T R A		C O O R D E N A D A S F O P N E C I D A S					C O R D E N A D A S R E A I S						
N. LAB.	N. CAMPO	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC	X	Y	LATITUDE	LONGITUDE	UTM-ABC.	UTM-ORD.	MC
IAC177	JL0659	24 15 00 S	48 15 00				400	137	24 11 04 S	48 03 17	799246	7322155	51
IAC178	JL0671	24 15 00 S	48 15 00				469	148	24 10 44 S	48 01 15	802696	7322705	51
IAC179	JD0897	24 30 00 S	47 45 00				382	160	24 25 52 S	47 33 37	240404	7295603	45
IAC180	JD0898	24 30 00 S	47 45 00				384	156	24 25 59 S	47 33 33	240504	7295403	45
IAC181	JD0899	24 30 00 S	47 45 00				436	130	24 26 42 S	47 32 02	243104	7294103	45
IAC203	GG0625	25 00 00 S	48 15 00				325	192	24 54 37 S	48 05 28	793832	7241798	51
IAC204	GG0632	25 00 00 S	48 15 00				391	282	24 52 09 S	48 03 34	797132	7246298	51

- Anexo XXIX: Arquivo geral do Projeto Sudelpa

- Cadastro geoquímico englobando características de amostra, parâmetros descritivos de campo e parâmetros analíticos. Compreende as folhas 1 a 170, 1 a 4 e 1 a 2 do computador.

CPRM LISTAGEM DE AMOSTRAS 23.01.75 FLA. UNICA

SISTEMA DE ESTATISTICA DE AMOSTRAGEM

FOLHA DE CONTROLE - PROGRAMA PRGCMCC7

*** OPCOES *** ARQUIVO

0000000000 FS170003

AMOSTRAS LIDAS 841

AMOSTRAS IMPRESSAS 841

N. INICIAL DA PAGINA 1

N. FINAL DA PAGINA 170

N. DE AMOSTRA INICIAL

N. DE AMOSTRAS FINAL

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA764 JP0048	IAA765 JR0049	IAA766 JRC060	IAA767 JR0070	IAA768 JR0079	IAA769 IP0066	IAA770 IP0067	IAA771 IP0068	IAA772 IP0069	IAA773 IP0070
PARAMETROS ANALITICOS										
FE-S %	1,500	1,500	2,000	1,500	2,000	2,000	1,000	2,000	1,500	1,500
MG-S %	0,300	0,100	0,300	0,700	0,300	0,100	0,200	0,300	0,300	0,200
CA-S %	0,150	0,050	0,150	0,700	0,150	-0,050	0,150	0,300	0,150	0,150
TI-S %	0,150	0,300	0,300	0,200	0,300	0,200	0,150	0,300	0,500	0,500
MN-S	300,000	300,000	300,000	300,000	500,000	2000,000	300,000	300,000	1000,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	20,000	50,000	20,000	30,000	-10,000
BA-S	500,000	300,000	300,000	1500,000	300,000	200,000	300,000	1500,000	500,000	1000,000
BE-S	1,000	-1,000	1,000	-1,000	1,000	1,500	-1,000	-1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	5,000	-5,000	10,000	7,000	10,000	10,000	-5,000	5,000	5,000	5,000
CR-S	70,000	20,000	150,000	70,000	150,000	100,000	20,000	50,000	20,000	50,000
CU-S	7,000	-5,000	7,000	5,000	30,000	30,000	7,000	-5,000	5,000	-5,000
LA-S	NAO DET.	70,000	50,000	20,000	50,000	NAO DET.	NAO DET.	20,000	NAO DET.	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	-10,000	10,000	10,000	-10,000	10,000	15,000	-10,000	10,000	10,000	-10,000
NI-S	15,000	7,000	30,000	20,000	50,000	30,000	5,000	5,000	-5,000	5,000
PB-S	30,000	30,000	20,000	30,000	30,000	30,000	15,000	30,000	15,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	NAO DET.	NAO DET.	5,000	5,000	7,000	7,000	NAO DET.	5,000	NAO DET.	NAO DET.
SN-S	NAO DET.	NAO DET.	NAO DET.	-10,000	-10,000	-10,000	15,000	-10,000	-10,000	-10,000
SR-S	100,000	NAO DET.	100,000	500,000	NAO DET.	NAO DET.	-100,000	300,000	200,000	300,000
V-S	15,000	10,000	50,000	30,000	50,000	50,000	15,000	50,000	20,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	10,000	NAO DET.	NAO DET.	10,000	10,000	NAO DET.	NAO DET.	15,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	150,000	300,000	700,000	100,000	150,000	100,000	150,000	500,000	200,000	700,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA774 UP0071	IAA775 IP0085	IAA776 IP0104	IAA777 IP0105	IAA778 GG0013	IAA779 GG0023	IAA780 GG0024	IAA781 GG0047	IAA782 GG0048	IAA783 GG0056
PARAMETROS ANALITICOS										
FE-S %	1,500	2,000	1,500	0,300	1,500	2,000	1,500	1,500	1,500	1,500
MG-S %	0,500	0,200	0,200	0,500	0,300	0,700	0,500	0,500	0,300	0,500
CA-S %	0,700	0,050	0,150	0,200	0,150	0,500	0,150	0,150	0,100	0,150
TI-S %	0,300	0,500	0,150	0,150	1,000	0,700	0,300	0,500	0,300	0,300
MN-S	500,000	300,000	5000,000	300,000	300,000	700,000	300,000	300,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	10,000	30,000	70,000	200,000	NAO DET.	30,000	50,000	100,000	300,000
BA-S	1000,000	150,000	200,000	70,000	700,000	700,000	700,000	1000,000	1000,000	300,000
BE-S	-1,000	1,500	1,000	-1,000	1,000	1,000	1,000	2,000	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	5,000	7,000	7,000	-5,000	-5,000	10,000	5,000	5,000	-5,000	7,000
CR-S	30,000	30,000	20,000	-10,000	30,000	150,000	100,000	50,000	30,000	50,000
CU-S	-5,000	7,000	7,000	-5,000	7,000	7,000	5,000	5,000	-5,000	5,000
LA-S	20,000	70,000	NAO DET.	NAO DET.	20,000	20,000	50,000	70,000	50,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	20,000	10,000	-10,000	30,000	20,000	10,000	20,000	10,000	10,000
NI-S	7,000	30,000	7,000	NAO DET.	10,000	30,000	15,000	10,000	7,000	15,000
PB-S	30,000	20,000	15,000	-10,000	50,000	30,000	30,000	50,000	50,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	7,000	7,000	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	5,000	NAO DET.	10,000
SN-S	-10,000	-10,000	NAO DET.	NAO DET.	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SR-S	500,000	NAO DET.	NAO DET.	NAO DET.	200,000	200,000	150,000	300,000	300,000	NAO DET.
V-S	30,000	30,000	20,000	10,000	30,000	50,000	30,000	30,000	20,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	-10,000	30,000	NAO DET.	NAO DET.	-10,000	10,000	15,000	10,000	10,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	1000,000	100,000	50,000	+1000,000	+1000,000	+1000,000	1000,000	1000,000	300,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA784 GG0064	IAA785 GG0072	IAA786 MV0100	IAA787 MV0102A	IAA788 MV0102B	IAA789 MV0113	IAA790 MV0117A	IAA791 MV0117B	IAA792 MV0118	IAA793 MV0129
PARAMETROS ANALITICOS										
FE-S %	1,500	1,500	1,000	1,000	0,700	1,500	1,500	2,000	1,500	1,500
MG-S %	0,300	0,300	0,100	0,070	0,070	0,150	0,200	0,300	0,300	0,200
CA-S %	0,150	0,150	0,050	-0,050	0,050	0,070	-0,050	-0,050	0,050	0,100
TI-S *	0,300	0,500	0,500	0,300	0,300	0,700	0,300	0,500	0,300	0,300
MN-S	700,000	300,000	500,000	150,000	150,000	150,000	500,000	300,000	150,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	300,000	70,000	300,000	300,000	300,000	100,000	200,000	150,000	150,000	70,000
BA-S	1000,000	1000,000	700,000	700,000	700,000	700,000	300,000	500,000	300,000	500,000
BE-S	1,500	1,000	1,500	1,000	1,000	1,000	3,000	2,000	1,500	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	-10,000	-10,000	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000	-5,000	-5,000	-5,000	5,000	10,000	10,000	-5,000	5,000
CR-S	30,000	300,000	10,000	20,000	20,000	70,000	50,000	50,000	50,000	70,000
CU-S	-5,000	-5,000	-5,000	7,000	5,000	7,000	10,000	10,000	5,000	5,000
LA-S	70,000	70,000	NAO DET.	50,000	20,000	70,000	150,000	70,000	20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NO-S	15,000	15,000	30,000	15,000	15,000	20,000	20,000	20,000	20,000	15,000
NI-S	7,000	10,000	7,000	5,000	5,000	10,000	10,000	15,000	15,000	10,000
PA-S	50,000	30,000	30,000	70,000	50,000	30,000	70,000	70,000	70,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	INTERFER.	INTERFER.	NAO DET.	NAO DET.	5,000	7,000	10,000	7,000	INTERFER.
SN-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	10,000	NAO DET.
SR-S	300,000	300,000	200,000	150,000	150,000	150,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	20,000	30,000	20,000	30,000	20,000	30,000	30,000	30,000	50,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	20,000	15,000	-10,000	-10,000	30,000	50,000	30,000	10,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	700,000	+1000,000	+1000,000	700,000	500,000	700,000	500,000	300,000	200,000	+1000,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA794	IAA795	IAA796	IAA797	IAA798	IAA799	IAA800	IAAEC1	IAAEC2	IAA803
NUM. CAMPO	MV0191	MV0192	MV0195A	MV0195B	MV0198A	MV0198B	MV0215	MV0216	JDC019	JDC021
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV4	SF23YCV3	SG23VAII	SG23V113
BASE CART.									3	
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/73	08/73	08/73	08/73	08/73	08/73	08/73	08/73	08/73	08/73
LATITUDE	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 15 00	47 30 00	47 30 00	47 30 00
ABCISSA - X	0404	0385	0411	0411	0364	0364	0111	0510	0494	0453
ORDENADA - Y	0191	0208	0355	0355	0357	0357	0244	0225	0433	0431
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	D	C	C	C	C	C	C	C	C
ID. GEOLG.	AX	AX	AX	AX	AX	AX	AX	AX	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	A	A	A	A	A	A	A	D	D
TIPO VEGET.	C	C	C	C	C	C	C	C	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	C	C	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	560	610	830	830	810	810	630	560	80	80
PRCF. AMOST.	0,35	0,35	0,75	0,75	0,60	0,60	0,75	0,70	0,10	0,45
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	2	2	20	15	15	2	3	5	2
PROFUND. RIO	0,4	0,4	0,7	0,7	1,0	1,0	1,5	0,7	1,0	0,5
VELOC. CORR.	1	2	3	3	3	3	3	3	4	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	2	1
TURB. AGUA	0	1	1	1	2	2	1	1	2	1
POS. COLETA	C	C	C	C	C	C	C	C	E	C
COR AGUA	A	A	A	A	A	A	A	A	I	D
GRAU ARRED.	A	B	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	82	721	181	181	271	271	271	271	271	181
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA794 MV0191	IAA795 MV0192	IAA796 MV0195A	IAA797 MV0195B	IAA798 MC0198A	IAA799 MV0198B	IAA800 MV0215	IAA801 MV0216	IAA802 JD0019	IAA803 JD0021
PARAMETROS ANALITICOS										
FE-S %	1,000	1,500	2,000	3,000	1,500	1,500	1,500	1,500	1,500	2,000
MG-S %	0,200	0,150	0,500	0,300	0,300	0,200	0,200	0,150	0,500	0,700
CA-S %	0,050	0,050	0,100	0,100	0,150	0,150	0,150	0,050	0,500	1,500
TI-S %	0,150	0,500	0,700	0,500	0,700	0,300	0,300	0,150	0,150	0,300
MN-S	150,000	500,000	300,000	150,000	500,000	300,000	500,000	300,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	50,000	20,000	50,000	50,000	20,000	300,000	150,000	NAO DET.	NAO DET.
BA-S	1000,000	700,000	700,000	500,000	700,000	700,000	200,000	300,000	700,000	700,000
BE-S	-1,000	1,000	1,500	-1,000	1,500	1,000	1,000	1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	-5,000	-5,000	15,000	10,000	5,000	-5,000	-5,000	-5,000	5,000	15,000
CR-S	30,000	20,000	150,000	150,000	100,000	70,000	70,000	50,000	150,000	100,000
CU-S	7,000	5,000	10,000	10,000	10,000	7,000	7,000	5,000	7,000	7,000
LA-S	50,000	100,000	50,000	70,000	70,000	NAO DET.	200,000	20,000	70,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	20,000	20,000	20,000	20,000	10,000	10,000	10,000	-10,000	10,000
NI-S	5,000	-5,000	30,000	30,000	20,000	10,000	7,000	7,000	10,000	20,000
PB-S	30,000	30,000	50,000	30,000	30,000	30,000	20,000	15,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	-5,000	NAO DET.	10,000	INTERFER.	INTERFER.	INTERFER.	7,000	5,000	7,000	15,000
SN-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAO DET.	-10,000	-10,000	-10,000
SR-S	100,000	NAO DET.	150,000	100,000	200,000	150,000	NAO DET.	NAO DET.	200,000	300,000
V-S	15,000	15,000	70,000	70,000	50,000	30,000	15,000	15,000	30,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	20,000	15,000	70,000	30,000	10,000	200,000	70,000	15,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	150,000	+1000,000	300,000	+1000,000	+1000,000	1000,000	500,000	300,000	200,000	150,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA804	IAA805	IAA806	IAA807	IAA808	IAA810	IAA811	IAA812	IAA813	IAA814
NUM. CAMPO	JD0024	JD0028	JD0037	JD0039	JD0040	JD0048	JD0056	JD0061	JD0075	JD0076
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VII3	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII
BASE CART.	3		3	0	3	3	3	0	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00
ABCISSA - X	0458	0473	0389	0364	0211	0499	0032	0149	0288	0301
ORDENADA - Y	0425	0419	0300	0274	0488	0457	0265	0197	0125	0114
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	C	D	D	D	B	D
TIPO VEGET.	A	A	C	C	C	C	C	A	A	C
SIT. TOPOG.	A	A	C	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	110	100	280	200	120	80	280	30	80	30
PROF. AMOST.	0,45	0,30	0,45	0,30	0,48	0,45	0,35	0,45	0,45	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	5	5	2	2	2	3	3	3	8
PROFUND. RIO	0,5	0,3	0,5	0,3	0,5	0,5	0,4	0,5	0,5	1,0
VELOC. CORR.	3	2	2	4	3	3	2	2	2	3
NIVEL AGUA	2	3	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	1	2	2	1	2	2	2
TURB. AGUA	2	1	1	2	1	1	2	1	1	2
POS. COLETA	D	D	D	D	E	E	D	E	C	D
COR AGUA	I	A	A	A	A	A	A	A	A	A
GRAU ARRED.	B	C	D	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	271	811	721	811	721	811	631	442	541	541
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA804 JD0024	IAA805 JD0028	IAA806 JD0037	IAA807 JD0039	IAA808 JD0040	IAA810 JD0048	IAA811 JD0056	IAA812 JD0061	IAA813 JD0075	IAA814 JD0076
PARAMETROS ANALITICOS										
FE-S %	1,500	2,000	2,000	2,000	2,000	5,000	5,000	5,000	2,000	3,000
MG-S %	0,500	0,700	1,000	1,000	0,700	1,000	1,000	1,000	1,000	1,000
CA-S %	0,500	0,700	0,700	0,700	0,700	1,000	0,200	0,500	0,500	0,700
TI-S %	0,150	0,200	0,150	0,150	0,150	0,500	0,300	0,700	0,200	0,300
MN-S	300,000	500,000	500,000	500,000	500,000	700,000	200,000	300,000	200,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	-10,000	-10,000	15,000	NAO DET.	NAO DET.	NAO DET.	10,000	NAO DET.
BA-S	700,000	500,000	500,000	500,000	500,000	700,000	500,000	700,000	500,000	300,000
BE-S	-1,000	1,000	1,000	1,500	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	-10,000	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	7,000	10,000	10,000	5,000	15,000	15,000	15,000	10,000	10,000
CR-S	200,000	70,000	70,000	100,000	150,000	150,000	100,000	100,000	70,000	100,000
CU-S	7,000	7,000	10,000	10,000	10,000	50,000	50,000	70,000	30,000	30,000
LA-S	50,000	150,000	70,000	20,000	100,000	200,000	100,000	200,000	100,000	200,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	10,000	15,000	15,000	20,000	10,000	50,000	30,000	30,000	15,000	20,000
PB-S	30,000	20,000	20,000	20,000	20,000	50,000	50,000	50,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	10,000	15,000	20,000	7,000	INTERFER.	INTERFER.	INTERFER.	10,000	15,000
SN-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SR-S	200,000	200,000	200,000	150,000	100,000	200,000	100,000	100,000	100,000	150,000
V-S	30,000	50,000	50,000	70,000	30,000	70,000	70,000	70,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	20,000	30,000	30,000	15,000	30,000	20,000	20,000	20,000	200,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	100,000	300,000	200,000	300,000	500,000	1000,000	1000,000	1000,000	200,000	500,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA815	IAA817	IAA818	IAA819	IAA820	IAA821	IAA822	IAA823	IAA824	IAA825
NUM. CAMPO	JD0085	JD0106	JD0119	JD0122	JD0123	JD0127	J00130	JL0021	JL0034	JL0037
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAI3	SG23VAII	SG23YAI1	SG23VAII
BASE CART.	3	3	3	3	3	3		3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73	07/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	47 30 00	49 00 00	47 30 00	47 30 00	47 30 00
ABCISSA - X	0510	0192	0189	0275	0250	0174	0104	0324	0283	0031
ORDENADA - Y	0408	0212	0539	0341	0340	0363	0344	0271	0371	0392
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	C	B	B	D	D	B	D	C	D
TIPO VEGET.	A	C	C	C	C	D	C	A	C	A
SIT. TOPOG.	A	A	C	A	A	B	A	A	A	A
SIT. AMOST.	C	B	C	C	C	C	C	C	C	C
ALTITUDE	100	35	90	300	320	470	20	120	490	50
PROF. AMOST.	0,45	0,25	0,55	0,45	0,45	0,45	0,35	0,50	0,40	0,80
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	5	2	4	4	3	1	12	2	1
PROFUND. RIO	0,5	0,3	0,6	0,5	0,5	0,5	0,4	0,5	0,4	0,8
VELOC. CORR.	2	2	2	2	3	3	2	3	3	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	1	3	1	2
TURB. AGUA	1	0	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	D	C	C	C	E	D	E
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	C
VOL. ORIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	631	7111	631	631	631	811	811	721	631	352
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA815 JD0085	IAA817 JD0106	IAA818 JD0119	IAA819 JD0122	IAA820 JD0123	IAA821 JD0127	IAA822 JD0130	IAA823 JL0021	IAA824 JL0034	IAA825 JL0037
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	2,000	2,000	3,000	3,000	1,500	5,000	5,000	3,000
MG-S %	1,000	2,000	0,200	0,700	0,700	0,700	0,150	1,500	0,700	1,500
CA-S %	0,700	0,700	0,050	0,500	0,200	0,500	0,050	1,000	0,700	1,000
TI-S %	0,500	0,500	0,500	0,200	0,300	1,000	0,150	0,300	0,700	0,700
MN-S	100,000	200,000	200,000	200,000	200,000	700,000	200,000	500,000	700,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	100,000	NAO DET.	NAO DET.	NAO DET.	1000,000	NAO DET.	NAO DET.	NAO DET.
BA-S	700,000	700,000	200,000	500,000	500,000	700,000	200,000	500,000	500,000	700,000
BE-S	1,000	-1,000	-1,000	1,000	1,000	1,000	1,500	-1,000	-1,000	2,000
BI-S	NAO DET.	-10,000	-10,000	-10,000	-10,000	NAO DET.	-10,000	-10,000	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	20,000	7,000	10,000	15,000	10,000	5,000	20,000	20,000	20,000
CR-S	150,000	150,000	100,000	100,000	150,000	70,000	10,000	150,000	100,000	150,000
CU-S	70,000	100,000	50,000	30,000	30,000	30,000	30,000	30,000	50,000	50,000
LA-S	100,000	70,000	200,000	50,000	70,000	100,000	20,000	50,000	200,000	150,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	-10,000	-10,000	10,000	-10,000	10,000	10,000	10,000
NI-S	50,000	50,000	10,000	20,000	30,000	20,000	5,000	30,000	30,000	30,000
PB-S	50,000	50,000	20,000	20,000	30,000	30,000	70,000	30,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	20,000	5,000	10,000	10,000	INTERFER.	5,000	INTERFER.	INTERFER.	20,000
SN-S	-10,000	-10,000	NAO DET.	-10,000	-10,000	-10,000	10,000	-10,000	20,000	-10,000
SR-S	200,000	200,000	NAO DET.	100,000	-100,000	100,000	NAO DET.	200,000	200,000	300,000
V-S	70,000	70,000	50,000	50,000	50,000	50,000	20,000	70,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	30,000	50,000	10,000	20,000	20,000	20,000	30,000	30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	700,000	500,000	500,000	700,000	+1000,000	100,000	+1000,000	+1000,000	500,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA826 JL0043	IAA827 JL0045	IAA828 JL0047	IAA829 JL0054	IAA830 JL0057	IAA831 JL0064	IAA832 JL0087	IAA833 JL0108	IAA854 IP0129	IAA895 IP0134
PARAMETROS ANALITICOS										
FE-S %	3,000	2,000	3,000	5,000	5,000	3,000	3,000	5,000	3,000	3,000
MG-S %	3,000	0,700	2,000	1,500	2,000	0,500	1,000	2,000	0,700	0,200
CA-S %	0,700	0,700	1,000	0,200	0,700	0,100	0,150	1,500	0,300	0,300
TI-S %	0,300	0,500	0,300	0,300	0,300	0,300	0,500	0,500	+1,000	+1,000
MN-S	500,000	700,000	500,000	700,000	500,000	500,000	700,000	1000,000	1500,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	NAO DET.	20,000	NAO DET.	NAO DET.	20,000	20,000	10,000	100,000	-10,000
BA-S	300,000	500,000	500,000	500,000	500,000	300,000	700,000	500,000	2000,000	5000,000
BE-S	1,000	-1,000	-1,000	-1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	10,000	15,000	15,000	20,000	10,000	10,000	10,000	20,000	10,000
CR-S	150,000	100,000	150,000	150,000	200,000	100,000	150,000	200,000	70,000	70,000
CU-S	30,000	50,000	30,000	30,000	50,000	20,000	50,000	20,000	INTERFER.	INTERFER.
LA-S	100,000	100,000	50,000	70,000	100,000	70,000	70,000	200,000	100,000	150,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	-10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	50,000	20,000	20,000	30,000	50,000	20,000	30,000	50,000	30,000	15,000
PB-S	50,000	30,000	30,000	50,000	50,000	30,000	50,000	30,000	20,000	70,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	INTERFER.	10,000	10,000	INTERFER.	10,000	10,000	20,000	20,000	10,000
SN-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAO DET.	-10,000
SR-S	NAO DET.	100,000	100,000	NAO DET.	-100,000	NAO DET.	NAO DET.	200,000	200,000	700,000
V-S	70,000	50,000	50,000	70,000	70,000	70,000	50,000	100,000	70,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	30,000	20,000	20,000	20,000	20,000	30,000	50,000	30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	+1000,000	200,000	300,000	1000,000	500,000	500,000	500,000	1000,000	1000,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA896	IAA897	IAA898	IAA899	IAA900	IAA901	IAA902	IAA903	IAA904	IAA905
NUM. CAMPO	IP0148	IP0155	IP0177	IP0181	IP0198	IP0200	IP0208	IP0210	IP0215	IP0216
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	49 00 00	49 15 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 15 00
ABCISSA - X	0015	0040	0037	0016	0005	0210	0135	0156	0132	0491
ORDENADA - Y	0160	0045	0234	0205	0288	0079	0078	0139	0190	0090
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLOG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	C	C	C	C	C	C	C
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	C	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	810	850	880	860	840	840	840	850	890	810
PRGF. AMOST.	0,25	0,30	0,20	0,30	0,30	0,20	0,40	0,40	0,40	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINFR.										
DEP. CCCOR.										
LARGURA RIO	2	1	4	3	3	2	2	2	2	3
PROFUND. RIO	0,3	0,4	0,2	0,4	0,4	0,3	0,5	0,5	0,5	0,5
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	3	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	2
TURB. AGUA	2	1	1	1	1	1	2	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	G	A	A	A	A	A	D	D	I
GRAU ARRED.	B	C	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PFSO CONC.										
GRANULOMET.										
TEXT. SEDIM.	622	6211	1711	7 21	6121	5122	16111	6121	9131	5131
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA896 IP0148	IAA897 IP0155	IAA898 IP0177	IAA899 IP0181	IAA900 IP0198	IAA901 IP0200	IAA902 IP0208	IAA903 IP0210	IAA904 IP0215	IAA905 IP0216
PARAMETROS ANALITICOS										
FE-S %	2,000	5,000	2,000	2,000	3,000	2,000	5,000	3,300	3,000	3,000
MG-S %	0,150	0,300	0,200	0,150	0,200	0,300	0,200	1,000	0,200	0,200
CA-S %	0,300	1,000	0,300	0,200	0,300	0,200	0,100	1,000	0,300	0,300
TI-S %	1,000	1,000	1,000	1,000	+1,000	0,300	0,700	0,500	+1,000	+1,000
MN-S	1000,000	500,000	150,000	500,000	700,000	700,000	200,000	1500,000	1000,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	70,000	-10,000	NAO DET.	10,000	50,000	100,000	20,000	200,000	20,000	100,000
BA-S	2000,000	3000,000	5000,000	2000,000	3000,000	1500,000	3000,000	700,000	5000,000	3000,000
BE-S	-1,000	1,000	1,000	1,000	1,000	1,000	1,500	1,000	1,500	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	5,000	10,000	5,000	10,000	10,000	10,000	20,000	20,000	10,000	5,000
CR-S	50,000	100,000	50,000	50,000	70,000	70,000	70,000	70,000	50,000	50,000
CU-S	5,000	5,000	5,000	5,000	INTERFER.	5,000	5,000	10,000	INTERFER.	INTERFER.
LA-S	50,000	150,000	50,000	50,000	150,000	50,000	200,000	50,000	50,000	100,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	-10,000	10,000	10,000	10,000	10,000	10,000
NI-S	5,000	15,000	10,000	10,000	15,000	10,000	20,000	20,000	15,000	10,000
PB-S	30,000	50,000	50,000	50,000	70,000	50,000	50,000	10,000	70,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	INTERFER.	INTERFER.	5,000	INTERFER.	5,000	INTERFER.	10,000	INTERFER.	INTERFER.
SN-S	NAO DET.	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAO DET.
SR-S	700,000	700,000	1500,000	700,000	1000,000	500,000	700,000	100,000	700,000	700,000
V-S	30,000	100,000	50,000	50,000	70,000	50,000	50,000	50,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	30,000	20,000	20,000	30,000	10,000	30,000	30,000	20,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	+1000,000	+1000,000	1000,000	+1000,000	300,000	+1000,000	200,000	+1000,000	+1000,000

S E A G

PROJETC - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA906 IP0224	IAA907 IP0225	IAA908 IP0230	IAA909 IP0239	IAA910 IP0251	IAA911 IP0252	IAA912 IP0257	IAA913 JR0081	IAA914 JR0089	IAA915 JR0090
PARAMETROS ANALITICOS										
FE-S %	15,000	3,000	2,000	3,000	10,000	10,000	5,000	5,000	7,000	7,000
MG-S %	0,200	0,300	0,200	0,200	1,000	0,700	0,500	0,700	1,000	0,700
CA-S %	0,100	0,500	0,300	0,300	2,000	1,500	1,000	0,300	1,500	1,000
TI-S %	1,000	+1,000	+1,000	1,000	1,000	1,000	1,000	+1,000	+1,000	0,500
MN-S	700,000	700,000	500,000	500,000	700,000	700,000	1000,000	700,000	5000,000	5000,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	10,000	-10,000	20,000	NAD DET.	20,000	20,000	NAD DET.	150,000	70,000	100,000
BA-S	5000,000	5000,000	3000,000	3000,000	3000,000	3000,000	5000,000	1500,000	1000,000	1000,000
BE-S	2,000	1,000	1,000	1,500	1,500	1,000	1,000	1,500	1,500	1,500
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CD-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	50,000	10,000	10,000	10,000	20,000	30,000	20,000	20,000	50,000	20,000
CR-S	300,000	100,000	100,000	70,000	200,000	150,000	50,000	200,000	200,000	200,000
CU-S	5,000	INTERFER.	INTERFER.	5,000	15,000	15,000	5,000	INTERFER.	INTERFER.	10,000
LA-S	150,000	100,000	100,000	100,000	100,000	100,000	100,000	150,000	50,000	50,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000
NI-S	50,000	15,000	15,000	20,000	20,000	30,000	15,000	70,000	50,000	30,000
PB-S	50,000	50,000	50,000	70,000	30,000	30,000	50,000	30,000	20,000	15,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	5,000	15,000	INTERFER.	INTERFER.	INTERFER.	15,000	10,000
SN-S	INTERFER.	-10,000	-10,000	-10,000	INTERFER.	INTERFER.	-10,000	-10,000	NAD DET.	NAD DET.
SP-S	500,000	1500,000	700,000	700,000	1000,000	1000,000	1500,000	500,000	500,000	500,000
V-S	150,000	100,000	70,000	50,000	150,000	150,000	70,000	100,000	150,000	100,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	30,000	30,000	30,000	20,000	30,000	30,000	20,000	50,000	20,000	20,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	+1000,000	+1000,000	+1000,000	1000,000	700,000	+1000,000	+1000,000	+1000,000	200,000	500,000

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA916	IAA917	IAA918	IAA919	IAA920	IAA921	IAA922	IAA929	IAA930	IAA931
NUM. CAMPO	IP0103	JR0106	JR0107	JR0109	JD0157	JD0167	JD0168	JD0202	JD0209	JD0241
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG23VA14	SG23VA14	SH23VA14	SG23VA14	SG23VA14	SG23VA14
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00
ABCISSA - X	0230	0288	0292	0039	0383	0055	0211	0108	0004	0648
ORDENADA - Y	0224	0291	0296	0205	0321	0276	0300	0520	0177	0538
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	C	C	C	C	C	C	C
ID. GEOLÓG.	CI	CI	CI	AS	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	C	D	D	D	C	D	B
TIPO VEGET.	A	A	A	C	A	A	A	C	A	A
SIT. TOPOG.	A	A	A	C	A	C	B	C	C	C
SIT. AMOST.	C	C	C	C	C	E	C	C	C	C
ALTITUDE	890	760	790	1000	200	30	40	40	40	40
PROF. AMOST.	0,30	0,20	0,30	0,40	0,30	0,30	0,35	0,35	0,35	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PPEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	3	2	3	3	2	2	2	1	2	3
PROFUND. RIO	0,2	0,3	0,4	0,5	0,4	0,4	0,4	0,4	0,4	1,0
VELOC. CORR.	3	3	3	4	4	2	2	2	2	1
NIVEL AGUA	2	2	2	3	3	3	2	2	2	2
AREA DRENAG.	1	1	1	2	1	2	1	1	2	2
TURB. AGUA	1	1	1	1	1	1	2	1	1	1
POS. COLETA	C	C	C	C	D	C	C	C	C	D
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	C	B	B	C	B	B	B	B	B	B
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	17 11	35 11	261 1	351 1	811	91	721	811	811	532
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA916 IP0103	IAA917 JR0106	IAA918 JR0107	IAA919 JR0109	IAA920 JD0157	IAA921 JD0167	IAA922 JD0168	IAA929 JD0202	IAA930 JD0209	IAA931 JD0241
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	3,000	7,000	7,000	5,000	5,000	7,000	1,500	3,000
MC-S %	0,300	0,500	0,700	0,300	1,000	0,200	0,300	0,200	0,100	0,500
CA-S %	0,300	0,200	1,500	0,050	1,000	0,200	0,200	0,100	0,100	0,070
TI-S %	+1,000	0,500	+1,000	1,000	1,000	1,000	1,000	1,000	1,000	0,500
MN-S	1500,000	700,000	700,000	700,000	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	NAO DET.	100,000	NAO DET.	30,000	10,000	200,000	100,000	100,000
BA-S	2000,000	1500,000	2000,000	1000,000	1500,000	1500,000	1000,000	700,000	700,000	1000,000
BE-S	1,000	1,500	1,500	1,500	1,000	1,500	1,500	2,000	-1,000	2,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	10,000	10,000	20,000	20,000	10,000	10,000	10,000	5,000	10,000
CR-S	70,000	70,000	100,000	300,000	200,000	200,000	150,000	500,000	50,000	100,000
CU-S	INTERFER.	10,000	INTERFER.	20,000	20,000	10,000	10,000	10,000	5,000	7,000
LA-S	200,000	100,000	100,000	70,000	1000,000	100,000	70,000	150,000	100,000	100,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	10,000
NI-S	15,000	20,000	20,000	50,000	30,000	20,000	20,000	50,000	5,000	20,000
PB-S	70,000	50,000	50,000	20,000	20,000	20,000	20,000	20,000	15,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	10,000	10,000	15,000	INTERFER.	INTERFER.	10,000	INTERFER.	INTERFER.	INTERFER.
SN-S	-10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	500,000	150,000	700,000	100,000	150,000	150,000	100,000	NAO DET.	100,000	NAO DET.
V-S	50,000	50,000	70,000	50,000	100,000	70,000	70,000	100,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	30,000	30,000	30,000	100,000	50,000	20,000	150,000	20,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	700,000	1000,000	200,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA932	IAA933	IAA938	IAA939	IAA940	IAA941	IAA942	IAA943	IAA944	IAA945
NUM. CAMPO	JDO242	JLO155	JLO209	JLO214	JLO225	JLO227	JLO228	JLO229	JLO230	JLO231
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4	SG23VAI4
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00
ABCISSA - X	0389	0288	0420	0447	0199	0109	0269	0273	0295	0359
ORDENADA - Y	0499	0322	0273	0279	0417	0426	0467	0514	0383	0400
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	A	A	C	C	C
ID. GEOLÓG.	AI	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	D	B	B	C	D	B	B	C	C
TIPO VEGET.	A	A	A	A	A	A	C	A	A	A
SIT. TOPOG.	A	A	C	C	B	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	60	40	30	160	40	40	40	40	30	30
PROF. AMOST.	0,35	0,15	0,25	0,35	0,40	0,40	0,20	0,30	0,30	0,90
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTEP.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	2	2	2	3	1	2	2	2	3
PROFUND. RIO	0,4	0,2	0,3	0,4	0,5	0,5	0,3	0,4	0,4	1,0
VELOC. CORR.	2	3	2	2	1	1	2	2	3	2
NIVEL AGUA	2	2	2	1	2	2	2	2	2	2
AREA DRENAG.	1	2	1	1	1	1	1	1	1	1
TURB. AGUA	1	2	1	1	1	0	1	1	2	1
POS. COLETA	C	D	D	D	E	C	C	C	C	E
COR AGUA	A	A	A	A	A	I	A	A	A	A
GRAU APREC.	C	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	361	721	811		91	127	811	721	721	721
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMP. DIGITICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA932 J00242	IAA933 JL0155	IAA938 JL0209	IAA939 JL0214	IAA940 JL0225	IAA941 JL0227	IAA942 JL0228	IAA943 JL0229	IAA944 JL0230	IAA945 JL0231
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	7,000	5,000	5,000	5,000	2,000	5,000	5,000
MG-S %	0,300	1,000	1,000	1,500	0,500	0,300	0,700	0,500	1,000	1,000
CA-S %	0,150	1,000	1,000	2,000	0,070	0,200	0,300	0,200	0,500	0,500
TI-S %	+1,000	1,000	1,000	1,000	1,000	+1,000	1,000	0,500	0,500	1,000
MN-S	1500,000	1000,000	1000,000	1500,000	1500,000	2000,000	1000,000	1000,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAG DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	500,000	10,000	10,000	10,000	200,000	700,000	500,000	700,000	10,000	10,000
BA-S	700,000	1000,000	1000,000	1000,000	700,000	500,000	1000,000	1000,000	1000,000	1000,000
BE-S	1,500	1,500	1,500	1,500	1,500	1,500	2,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	20,000	10,000	20,000	20,000	30,000	20,000	5,000	10,000	20,000
CR-S	200,000	200,000	200,000	200,000	150,000	150,000	200,000	50,000	50,000	100,000
CU-S	INTERFER.	10,000	15,000	15,000	50,000	INTERFER.	50,000	5,000	10,000	20,000
LA-S	150,000	150,000	300,000	50,000	20,000	20,000	20,000	50,000	1000,000	500,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	-10,000	10,000
NI-S	30,000	30,000	30,000	30,000	30,000	50,000	50,000	15,000	20,000	30,000
PB-S	10,000	20,000	20,000	20,000	70,000	20,000	30,000	20,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	INTERFER.	15,000	INTERFER.	20,000	15,000	20,000	10,000	INTERFER.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	10,000	10,000	NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	150,000	150,000	200,000	NAO DET.	NAO DET.	100,000	100,000	100,000	100,000
V-S	100,000	150,000	100,000	100,000	100,000	100,000	100,000	50,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	50,000	50,000	50,000	20,000	50,000	20,000	500,000	100,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	+1000,000	1000,000	+1000,000	1000,000	500,000	200,000	1000,000	+1000,000	+1000,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 23

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA946	IAA947	IAA948	IAA949	IAA950	IAA951	IAA952	IAA953	IAA954	IAA955
NUM. CAMPO	GG0083	GG0092	GG0097	GG0103	GG0107	GG0110	GG0112	GG0120	GG0123	GG0126
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SF23YCV3	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV1	SF23YCV4	SF23YCV3	SF23YCV4
BASE CART.							3			
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/73	08/73	08/73	08/73	08/73	08/73	09/73	09/73	09/73	09/73
LATITUDE	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S
LONGITUDE	47 30 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 00 00	47 15 00	47 30 00	47 15 00
ABCISSA - X	0488	0377	0297	0067	0362	0382	0126	0029	0447	0431
ORDENACA - Y	0060	0061	0069	0125	0261	0161	0399	0024	0060	0206
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLCG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	D	D	D	D	B	B	B
TIPO VEGET.	C	C	C	C	C	A	C	C	C	C
SIT. TOPOG.	B	A	B	B	B	A	B	C	C	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	E
ALTITUDE	630	620	660	700	700	620	730	700	780	780
PRCF. AMOST.	0,35	0,50	0,30	0,30	0,20	0,30	0,40	0,20	0,30	0,80
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTIMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	2	9	1	1	1	2	2	1	1	1
PROFUND. RIO	0,3	1,5	0,5	0,3	0,4	0,7	1,0	0,2	0,3	0,8
VELOC. CORR.	3	1	3	3	2	2	1	1	1	1
NIVEL AGUA	2	3	3	3	3	3	3	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	3	1	2	2	1	1	1	0	0	0
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	C	C	B	I	A	D	A	A	C
GRAU ARREC.	B	C	A	B	C	B	B	B	B	0
VCL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	5211	4321	811	2341	1261	811	7111	6211	5131	163
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141-170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA946 GG0083	IAA947 GG0092	IAA948 GGC097	IAA949 GG0103	IAA950 GG0107	IAA951 GG0110	IAA952 GG0112	IAA953 GG0120	IAA954 GG0123	IAA955 GG0126
PARAMETROS ANALITICOS										
FE-S %	5,000	1,500	3,000	3,000	5,000	2,000	2,000	1,500	2,000	2,000
MG-S %	0,300	0,150	0,300	0,150	0,150	0,500	0,500	0,300	0,300	0,200
CA-S %	0,070	0,050	0,050	0,050	0,050	0,070	0,070	0,200	0,070	0,050
TI-S %	1,000	0,500	1,000	0,500	0,500	+1,000	0,300	0,200	0,500	0,500
MN-S	1500,000	500,000	1000,000	1000,000	500,000	1000,000	1500,000	500,000	700,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	1500,000	500,000	1000,000	500,000	500,000	+2000,000	700,000	200,000	1000,000	2000,000
BA-S	700,000	700,000	700,000	700,000	700,000	500,000	1500,000	500,000	1000,000	700,000
BE-S	5,000	2,000	2,000	2,000	5,000	3,000	2,000	2,000	2,000	20,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	5,000	10,000	10,000	10,000	10,000	10,000	5,000	20,000	5,000
CR-S	100,000	50,000	200,000	50,000	70,000	70,000	70,000	70,000	70,000	100,000
CU-S	20,000	5,000	10,000	10,000	20,000	INTERFER.	5,000	5,000	5,000	10,000
LA-S	100,000	150,000	50,000	50,000	50,000	50,000	50,000	20,000	50,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	-10,000	-10,000
NI-S	20,000	10,000	50,000	15,000	20,000	20,000	20,000	10,000	15,000	20,000
PB-S	50,000	10,000	15,000	15,000	50,000	20,000	20,000	20,000	50,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	INTERFER.	15,000	INTERFER.	INTERFER.	INTERFER.	15,000	15,000	15,000	15,000
SN-S	-10,000	NAO DET.	NAO DET.	NAO DET.	15,000	-10,000	-10,000	NAO DET.	NAO DET.	-10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	70,000	70,000	100,000	70,000	70,000	70,000	50,000	50,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	100,000	150,000	50,000	100,000	100,000	70,000	50,000	200,000	100,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	+1000,000	700,000	+1000,000	+1000,000	+1000,000	1000,000	200,000	1000,000	500,000

CPRM CADAstro GEOQUIMICO

23.01.75

FLA. 25

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA956	IAA957	IAA958	IAA959	IAA960	IAA961	IAA962	IAA963	IAA964	IAA965
NUM. CAMPO	GG0130	GG0137	GG0145	GG0150	GG0153	GG0157	GG0158	GG0160	MV0222	MV0224
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SF23YCV4	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCV3	SF23YCV3
BASE CART.		3	3	3	3	3	3	3		
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	08/73	08/73
LATITUDE	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S
LONGITUDE	47 15 00	47 00 00	47 00 00	47 00 00	47 00 00	47 00 00	47 15 00	47 00 00	47 30 00	47 30 00
ABCISSA - X	0462	0182	0109	0162	0211	0095	0046	0039	0455	0428
ORDENADA - Y	0160	0434	0201	0279	0330	0328	0205	0105	0165	0158
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLÓG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	C	C	C	C	C	C	C	C	C
TIPO VEGET.	A	C	C	C	C	A	C	A	C	C
SIT. TOPOG.	A	D	B	B	B	B	B	B	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	760	760	720	700	700	720	720	740	610	630
PROF. AMOST.	0,30	0,30	0,50	0,60	0,60	0,20	0,40	0,15	0,40	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRÉD.										
GRAU INTÉMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	1	2	1	1	1	1	1	1	2	3
PROFUND. RIO	0,3	0,3	0,5	0,6	0,6	0,2	0,4	0,1	0,4	0,4
VELOC. CORR.	1	2	3	1	1	1	1	1	1	3
NIVEL AGUA	2	3	3	4	4	3	3	3	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	2	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	D	D	G	G	A	C	B	H	A
GRAU ARRED.	C	C	C	C	C	C	B	B	C	B
VEL. ORIGIN.										
PESC. CONC.										
GRANULOMET.										
TEXT. SEDIM.	2422	12241	12142	4132	4132	3241	32122	4321	6211	6211
COR SEC. / SL.										
HORIZ. SCLD										
TIPO SCLD										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA956 GG0130	IAA957 GG0137	IAA958 GG0145	IAA959 GG0150	IAA960 GG0153	IAA961 GG0157	IAA962 GG0158	IAA963 GG0160	IAA964 MV0222	IAA965 MV0224
PARAMETROS ANALITICOS										
FE-S %	1,500	5,000	2,000	5,000	2,000	3,000	2,000	5,000	5,000	3,000
MG-S %	0,200	0,200	0,200	0,200	0,100	0,300	0,300	0,150	0,200	0,500
CA-S %	0,050	0,100	-0,050	0,070	-0,050	0,070	0,070	0,050	0,070	0,200
TI-S %	0,500	0,500	0,500	0,500	0,300	0,500	0,500	0,200	1,000	+1,000
MN-S	1000,000	1500,000	500,000	500,000	300,000	500,000	500,000	700,000	1000,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	1000,000	200,000	500,000	200,000	500,000	200,000	500,000	500,000	200,000	500,000
BA-S	700,000	1000,000	700,000	700,000	700,000	500,000	700,000	300,000	700,000	1500,000
BE-S	2,000	2,000	1,000	1,500	1,000	1,000	2,000	2,000	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	5,000	20,000	5,000	10,000	5,000	5,000	10,000	20,000	20,000	10,000
CR-S	50,000	70,000	100,000	70,000	100,000	70,000	100,000	50,000	100,000	50,000
CU-S	5,000	10,000	5,000	10,000	10,000	10,000	10,000	5,000	15,000	INTERFER.
LA-S	50,000	100,000	20,000	70,000	70,000	50,000	50,000	50,000	150,000	300,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	-10,000	-10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	20,000
NI-S	10,000	20,000	15,000	20,000	15,000	15,000	20,000	15,000	30,000	15,000
PB-S	15,000	20,000	20,000	30,000	10,000	20,000	50,000	100,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	15,000	INTERFER.	INTERFER.	15,000	INTERFER.	15,000	INTERFER.
SN-S	NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	10,000	10,000	10,000	-10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	100,000	150,000
V-S	50,000	70,000	70,000	70,000	70,000	100,000	50,000	70,000	50,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	100,000	50,000	50,000	50,000	30,000	50,000	20,000	50,000	70,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	500,000	+1000,000	1000,000	+1000,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 27

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA966	IAA967	IAA968	IAA969	IAA970	IAA971	IAA972	IAA973	IAA974	IAA975
NUM. CAMPO	MV0234	MV0250	MV0252	MV0258	MV0265	MV0272	MV0279	MV0281	MV0285	MV0286
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SF23YCV4		SF23YCV4	SF23YCVI	SF23YCVI	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4
BASE CART.				3	3					
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	08/73	08/73	08/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73
LATITUDE	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 00 00	47 00 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00
ABCISSA - X	0450	0320	0276	0053	0062	0438	0256	0247	0083	0227
ORDENACA - Y	0068	0188	0224	0390	0437	0347	0313	0272	0144	0087
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	D	C	C	C	C	C
ID. GEOLG.	AX	AX	AX	AX	BS	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	C	C	C	D	D	A	A	D	D
TIPO VEGET.	C	C	C	C	C	C	C	C	A	C
SIT. TOPOG.	C	A	A	B	A	B	B	C	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	640	650	660	760	790	720	600	600	680	720
PROF. AMOST.	0,35	0,60	0,60	0,30	0,25	0,50	0,15	0,30	0,60	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	3	1	2	2	2	2	1	2	2	4
PROFUND. RIO	0,3	1,0	0,8	1,0	0,7	0,5	0,2	0,3	0,6	0,5
VELGC. CORR.	3	3	3	2	3	3	2	4	3	3
NIVEL AGUA	3	4	4	3	3	3	2	2	2	3
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	2	1	1	2	1	1	2	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	D	I	D	A	A	A	A	A	G
GRAU ARREC.	B	B	C	C	B	B	C	C	B	B
VOL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	2141	15211	361	1171	910	91	118	226	811	3241
COR SED./SL.										
HORIZ. SOLID										
TIPO SOLID										
AMB. BIOTICH										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA966 MV0234	IAA967 MV0250	IAA968 MV0252	IAA969 MV0259	IAA970 MV0265	IAA971 MV0272	IAA972 MV0279	IAA973 MV0281	IAA974 MV0285	IAA975 MV0286
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	1,000	3,000	7,000	3,000	7,000	5,000	1,000	3,000
MG-S %	0,050	0,150	0,150	0,150	0,500	0,200	0,150	0,300	0,150	0,300
CA-S %	0,050	0,070	0,050	0,050	0,100	0,070	-0,050	0,050	0,070	0,050
TI-S %	0,300	0,500	0,500	1,000	1,000	+1,000	+1,000	1,000	0,300	0,500
MN-S	200,000	700,000	700,000	700,000	1000,000	1500,000	1000,000	1000,000	700,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	300,000	2000,000	1000,000	1000,000	700,000	1500,000	200,000	500,000	500,000	+2000,000
BA-S	150,000	300,000	200,000	700,000	1000,000	500,000	200,000	700,000	1000,000	500,000
BE-S	1,000	20,000	1,000	1,500	2,000	1,000	-1,000	1,500	1,000	10,000
BT-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	NAO DET.	10,000	-5,000	5,000	10,000	5,000	10,000	10,000	NAC DET.	10,000
CR-S	50,000	50,000	50,000	70,000	70,000	70,000	100,000	100,000	50,000	70,000
CU-S	-5,000	5,000	NAO DET.	10,000	7,000	INTERFER.	INTERFER.	20,000	NAC DET.	10,000
LA-S	50,000	20,000	50,000	100,000	100,000	500,000	50,000	100,000	20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
NB-S	-10,000	10,000	-10,000	10,000	10,000	10,000	-10,000	10,000	-10,000	-10,000
NI-S	10,000	20,000	5,000	20,000	20,000	15,000	20,000	50,000	5,000	20,000
PB-S	10,000	50,000	10,000	20,000	50,000	20,000	15,000	70,000	50,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	10,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	15,000	15,000	5,000	10,000
SN-S	-10,000	10,000	NAO DET.	NAO DET.	10,000	NAO DET.	NAO DET.	-10,000	NAC DET.	10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	100,000	NAO DET.	NAO DET.	NAO DET.	150,000	NAC DET.
V-S	50,000	30,000	20,000	50,000	100,000	50,000	100,000	50,000	20,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	70,000	20,000	100,000	150,000	20,000	700,000	100,000	150,000	50,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	100,000	+1000,000	+1000,000	+1000,000	+1000,000	500,000	1000,000	500,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75 FLA. 29

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAA976	IAA977	IAA978	IAA979	IAA980	IAA981	IAA982	IAA983	IAB026	IAB027
NUM. CAMPO	MV0290	MV0292	MV0297	MV0298	MV0301	MV0305	MV0308	MV0329	AM0052	AM0053
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310		
BASE CART.	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCV4	SF23YCVI 3	SF23YCVI 3	SG23VAIV 1	SG23VAIV 1
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	09/73	09/73	09/73	09/73	09/73	09/73	10/73	10/73
LATITUDE	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 45 00 S	24 45 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 00 00	47 00 00	48 00 00	48 00 00
ABCISSA - X	0156	0097	0125	0427	0380	0297	0047	0006	0159	0208
ORDENADA - Y	0241	0274	0344	0276	0345	0341	0323	0271	0509	0059
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	C	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	D	C	C	C	C	C	M	C
ID. GEOLG.	AX	AX	CS	AX	AX	AX	AX	AX	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIESILADE	D	D	D	B	B	B	C	C	D	D
TIPO VEGET.	B	B	B	C	A	C	C	C	A	A
SIT. TOPOG.	D	C	C	B	B	B	B	B	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	720	740	1020	840	730	690	720	710	30	20
PRCF. AMOST.	0,10	0,10	0,10	0,20	0,40	0,30	0,50	0,30	0,70	0,25
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIG	1	2	1	1	2	2	1	2	5	5
PROFUND. RIG	0,2	0,2	0,1	0,2	0,4	0,3	0,5	0,3	0,8	0,3
VELOC. CORR.	2	2	1	1	1	3	3	3	3	4
NIVEL AGUA	2	2	2	2	2	2	4	2	3	3
AREA DRENAG.	1	1	1	1	1	1	1	1	3	2
TURB. AGUA	1	1	0	1	1	2	2	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	D	A	A	A	G	A	I	A
GRAU ARREF.	A	B	B	A	C	B	B	B	B	B
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEMIN.	3511	721	4042	1081	712	91	2143	621	811	2611
COR SEC./SL.										
HORIZ. SCLW										
TIPO SCLW										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA976 MV0290	IAA977 MV0292	IAA978 MVC297	IAA979 MV0298	IAA980 MV0301	IAA981 MV0305	IAA982 MV0308	IAA983 MV0329	IAB026 AM0052	IAB027 AP0053
PARAMETROS ANALITICOS										
FE-S %	7,000	5,000	2,000	3,000	5,000	5,000	3,000	5,000	2,000	1,000
MG-S %	0,150	0,200	0,100	0,200	0,200	0,200	0,200	0,300	0,100	0,050
CA-S %	-0,050	0,050	0,100	0,050	0,050	0,050	0,050	0,050	0,070	-0,050
TI-S %	+1,000	+1,000	1,000	1,000	1,000	1,000	0,500	1,000	1,000	0,500
MN-S	700,000	2000,000	1000,000	1000,000	1000,000	1500,000	500,000	1000,000	700,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	+300,000	+100,000	+20,000	+2000,000	+200,000	+150,000	+500,000	+2000,000	70,000	200,000
BA-S	700,000	1000,000	500,000	500,000	500,000	700,000	500,000	500,000	300,000	100,000
BE-S	1,000	1,000	1,500	2,000	1,000	1,000	2,000	1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	15,000	10,000	NAO DET.	5,000	5,000	5,000	5,000	20,000	7,000	5,000
CR-S	200,000	50,000	30,000	200,000	200,000	100,000	100,000	70,000	20,000	200,000
CU-S	INTERFER.	INTERFER.	NAO DET.	10,000	10,000	10,000	10,000	10,000	10,000	5,000
LA-S	150,000	150,000	70,000	50,000	50,000	1000,000	50,000	50,000	100,000	20,000
MG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	50,000	20,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	15,000	5,000	20,000	20,000	15,000	20,000	20,000	7,000	5,000
PB-S	20,000	50,000	50,000	20,000	30,000	30,000	20,000	15,000	20,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	15,000	INTERFER.	10,000	15,000	20,000	10,000	15,000	INTERFER.	5,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	10,000	-10,000	NAO DET.	NAC DET.
SR-S	NAO DET.	100,000	150,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-100,000	-100,000
V-S	100,000	20,000	30,000	50,000	100,000	30,000	50,000	70,000	50,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	300,000	150,000	20,000	50,000	100,000	1000,000	50,000	70,000	20,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	1000,000	+1000,000	1000,000	500,000	1000,000	1000,000	500,000	+1000,000	500,000	300,000

CPRM CAASTRO GEOQUIMICO

23.01.75

FLA. 31

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - APEA TOTAL

NUM. LAB.	IAB028	IAB029	IABC30	IABC31	IAB032	IAB033	IAB034	IABC35	IAB036	IAB037
NUM. CAMPO	AM0063	AM0072	F8CC46	F80051	JD0275	JD0292	JD0296	JD0304	JD0326	JD0327
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO		310								
BASE CART.	SG23VAIV	SG23VAIV	SG23VAIV	SG23VAIV	SG23VAIB	SG22XBII	SG22XXBI	SG22XBII	SG23VAI3	SG23VAI3
BASE CART.	1	1	1	1		14	114	14		
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 00 00	48 00 00	48 00 00	48 00 00	48 00 00	48 15 00	48 15 00	48 15 00	48 00 00	48 00 00
ABCISSA - X	0343	0218	0002	0145	0138	0454	0355	0202	0167	0105
ORDENADA - Y	0038	0121	0046	0046	0305	0444	0452	0365	0384	0501
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	B	C	C	C	C	C	D	C	C
ID. GEOLG.	AI	PX	AI	AI	AI	AI	AI	BX	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOMETR.	D	C	B	B	D	B	B	B	B	C
TIPO VEGET.	A	C	A	B	C	C	C	C	C	C
SIT. TOPOG.	C	C	C	C	B	C	A	A	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	20	30	20	40	40	40	50	70	40	
PROF. AMOST.	0,20	0,30	0,30	0,20	0,45	0,55	0,35	0,30	0,45	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTERR.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	4	4	7	2	3	6	3	5	5	8
PROFUND. RIO	0,3	0,4	0,4	0,3	0,5	0,6	0,4	0,3	0,5	1,0
VELOC. CORR.	3	3	3	1	2	3	3	2	1	2
NIVEL AGUA	3	3	2	2	2	2	2	2	2	4
AREA DRENAG.	2	2	2	2	2	2	1	2	1	3
TURB. AGUA	1	1	2	0	1	2	2	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	E	D
COR AGUA	A	A	A	A	C	A	A	A	I	A
GRAU ARRED.	B	B	B	B	C	B	B	B	B	C
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	1612	541	2411	2125	811	811	811	91	811	811
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB028 AM0063	IAB029 AM0072	IABC30 FB0046	IABC31 FB0051	IAB032 JD0275	IAB033 JD0292	IAB034 JD0296	IAB035 JD0304	IAB036 JD0326	IAB037 JD0327
PARAMETROS ANALITICOS										
FE-S %	3,000	1,000	2,000	3,000	1,000	3,000	3,000	3,000	3,000	3,000
MG-S %	0,200	0,070	0,070	0,020	0,050	0,100	0,300	0,300	0,700	0,300
CA-S %	0,050	0,050	0,050	-0,050	-0,050	0,050	0,150	0,150	1,000	1,000
TI-S %	1,000	1,000	+1,000	1,000	0,500	+1,000	1,000	1,000	1,000	1,000
MN-S	500,000	500,000	1000,000	300,000	300,000	700,000	500,000	500,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	500,000	100,000	300,000	2000,000	700,000	200,000	100,000	150,000	200,000
BA-S	300,000	100,000	150,000	300,000	150,000	300,000	1000,000	500,000	1500,000	1000,000
BE-S	1,000	2,000	1,000	1,000	20,000	-1,000	1,000	1,000	1,500	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	5,000	7,000	10,000	5,000	7,000	10,000	15,000	10,000	7,000
CR-S	70,000	50,000	700,000	70,000	15,000	20,000	30,000	30,000	70,000	70,000
CU-S	20,000	5,000	10,000	20,000	5,000	10,000	10,000	20,000	10,000	5,000
LA-S	30,000	20,000	20,000	20,000	20,000	70,000	20,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	15,000	15,000	15,000	10,000	15,000	15,000	15,000	15,000	15,000
NI-S	20,000	7,000	15,000	20,000	5,000	10,000	15,000	20,000	20,000	10,000
PB-S	20,000	-10,000	10,000	20,000	20,000	15,000	50,000	50,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	5,000	5,000	10,000	5,000	7,000	10,000	5,000	10,000	10,000
SN-S	-10,000	NAO DET.	100,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	10,000	-10,000
SR-S	-100,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-100,000	200,000	150,000	700,000	500,000
V-S	70,000	30,000	50,000	70,000	20,000	50,000	70,000	70,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	15,000	20,000	20,000	50,000	70,000	10,000	15,000	20,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	150,000	200,000	200,000	100,000	200,000	200,000	1000,000	300,000	500,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 33

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB038	IAB039	IABC40	IAB041	IAB042	IAB043	IAB044	IABC45	IAB046	IAB047
NUM. CAMPO	JD0333	JL0261	JL0266	JL0279	JL0288	JR0111	JF0112	JR0113	JR0114	JP0115
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO					310	310	310	310	310	310
BASE CART.	SG22XB11	SG23VA13	SG23VA13	SG23VA13	SG22XB11	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14
BASE CAPT.	14				14					
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/73	09/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 15 00	48 00 00	48 00 00	48 00 00	48 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00
ABCISSA - X	0483	0303	0338	0103	0505	0337	0329	0341	0327	0246
ORDENADA - Y	0112	0069	0162	0435	0377	0146	0198	0191	0240	0110
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	S	S	S	S	S
ID. GEOLÓG.	AI	AI	AI	AI	AI	CI	CI	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	C	B	D	C	C	B	C
TIPO VEGET.	A	E	A	A	C	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE		20		60		850		870	820	
PROF. AMOST.	0,45	0,30	0,30	0,90	0,50	0,20	0,20	0,30	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	2	2	1	3	4	1	2	3	2	1
PROFUND. RIO	0,5	0,2	0,4	1,0	0,6	0,3	0,3	0,4	0,3	0,3
VELOC. CORR.	3	1	2	1	2	3	3	3	3	4
NIVEL AGUA	2	2	2	2	2	3	2	2	2	3
AREA DRENAG.	2	1	1	2	1	1	1	1	1	1
TURB. AGUA	1	0	1	1	1	1	1	1	1	2
POS. COLETA	C	E	C	C	C	C	C	C	C	C
COR AGUA	A	E	I	I	I	A	A	D	A	A
GRAU ARREC.	C	C	C	B	C	B	C	C	C	C
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	721	442	721	721	811	27 1	8 11	8 11	27 1	7 21
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE COPRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB038 JD0333	IAB039 JL0261	IAB040 JL0266	IAB041 JL0279	IAB042 JL0288	IAB043 JR0111	IAB044 JR0112	IAB045 JR0113	IAB046 JR0114	IAB047 JR0115
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	2,000	2,000	7,000	7,000	3,000	5,000	5,000
MG-S %	0,150	0,200	0,100	0,100	0,100	1,500	0,700	0,200	1,000	0,150
CA-S %	0,070	0,150	0,070	-0,050	0,050	2,000	0,700	0,500	1,500	0,100
TI-S %	+1,000	0,500	1,000	0,500	+1,000	+1,000	+1,000	+1,000	1,000	+1,000
MN-S	300,000	300,000	300,000	500,000	300,000	500,000	700,000	700,000	700,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	100,000	70,000	70,000	700,000	1000,000	10,000	20,000	NAO DET.	20,000	10,000
BA-S	500,000	300,000	150,000	150,000	150,000	2000,000	2000,000	3000,000	2000,000	500,000
BF-S	-1,000	1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	10,000	7,000	5,000	7,000	7,000	20,000	10,000	5,000	15,000	7,000
CR-S	30,000	100,000	50,000	20,000	20,000	150,000	70,000	50,000	70,000	50,000
CU-S	10,000	30,000	10,000	5,000	5,000	10,000	-5,000	-5,000	10,000	5,000
LA-S	20,000	50,000	30,000	30,000	70,000	50,000	50,000	20,000	70,000	500,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	10,000	10,000	10,000	15,000	10,000	10,000	20,000
NI-S	15,000	20,000	15,000	10,000	7,000	50,000	15,000	10,000	20,000	15,000
PB-S	50,000	50,000	30,000	20,000	20,000	50,000	30,000	50,000	30,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	15,000	10,000	10,000	10,000	15,000	5,000	5,000	10,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SF-S	100,000	-100,000	-100,000	NAO DET.	NAO DET.	700,000	700,000	1000,000	500,000	100,000
V-S	70,000	100,000	100,000	50,000	50,000	150,000	100,000	70,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	20,000	15,000	15,000	50,000	200,000	20,000	15,000	10,000	20,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	500,000	200,000	300,000	200,000	150,000	200,000	500,000	500,000	300,000	700,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB048 JR0116	IAB049 IP0294	IABC5C IP0303	IAB051 IP0310	IAB052 IP0311	IAB053 IP0313	IAB054 IP0314	IAB055 IP0316	IABC56 IP0317	IAB057 IP0318
PARAMETROS ANALITICOS										
FE-S %	5,000	2,000	3,000	3,000	2,000	3,000	2,000	3,000	3,000	5,000
MG-S %	0,300	0,300	0,700	1,500	0,500	0,500	0,100	0,150	0,150	1,000
CA-S %	0,150	0,500	1,500	1,500	0,700	0,700	0,100	0,100	0,100	1,500
TI-S %	1,000	0,700	1,000	0,500	0,200	1,000	1,000	1,000	1,000	1,000
MN-S	500,000	300,000	700,000	500,000	500,000	500,000	500,000	500,000	300,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	NAO DET.	20,000	20,000	10,000	NAO DET.	NAO DET.	NAO DET.	10,000
BA-S	2000,000	1500,000	1500,000	1000,000	1000,000	2000,000	500,000	1000,000	1000,000	1000,000
BE-S	1,000	1,000	1,000	1,000	2,000	1,000	-1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	5,000	7,000	10,000	7,000	7,000	5,000	5,000	7,000	15,000
CR-S	50,000	15,000	20,000	30,000	50,000	30,000	10,000	20,000	50,000	70,000
CU-S	5,000	5,000	-5,000	5,000	5,000	-5,000	-5,000	-5,000	5,000	10,000
LA-S	150,000	30,000	20,000	70,000	70,000	50,000	500,000	100,000	100,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	15,000	10,000	10,000	10,000	10,000	20,000	20,000	15,000	10,000
NI-S	15,000	7,000	10,000	20,000	20,000	10,000	5,000	10,000	15,000	15,000
PB-S	70,000	30,000	20,000	30,000	70,000	50,000	50,000	50,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	5,000	5,000	5,000	NAO DET.	NAO DET.	5,000	5,000	5,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	200,000	300,000	500,000	500,000	300,000	500,000	100,000	100,000	200,000	300,000
V-S	50,000	70,000	70,000	50,000	50,000	70,000	20,000	30,000	50,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	10,000	10,000	15,000	15,000	10,000	100,000	50,000	30,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	1000,000	200,000	200,000	200,000	500,000	+1000,000	+1000,000	1000,000	1000,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 37

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB058	IAB059	IABC60	IAB061	IAB062	IAB063	IAB064	IABC65	IABC68	IAB070
NUM. CAMPO	IP0319	IP0336	IPC338	IP0339	IP0342	IP0344	IP0351	IP0352	GG0216	MV0333
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO										
BASE CART.	SG22XB14	SG22XB14	SG22XB1V	SG22XB1V	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SF23YCVI	SG23VA11
BASE CART.			2	2					3	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73
LATITUDE	24 30 00 S	24 30 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 00 00 S	24 30 00 S
LONGITUDE	49 15 00	49 00 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	47 00 00	47 15 00
ABCISSA - X	0280	0204	0060	0124	0181	0218	0017	0059	0269	0314
ORDENADA - Y	0263	0157	0535	0524	0066	0260	0134	0102	0111	0387
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	N	O	S	C	C
ID. GEOLÓG.	CI	CI	CI	CI	CI	AI	AI	CI	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	C	C	C	C	C	A	D
TIPO VEGET.	A	A	A	A	A	A	B	A	B	A
SIT. TOPOG.	C	A	A	A	A	A	A	A	B	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	730	780	660	640	730	780		750	710	200
PROF. AMOST.	0,10	0,40	0,10	0,40	0,30	0,30	0,20	0,20	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	2	1	2	1	2	4	4	2	1
PROFUND. RIO	0,1	0,3	0,2	0,3	0,2	0,4	0,3	0,3	0,3	0,4
VELOC. CORR.	3	3	4	3	3	4	3	3	1	3
NIVEL AGUA	1	2	3	2	2	3	3	3	2	2
AREA DRENAG.	1	1	1	1	1	1	1	2	1	1
TURB. AGUA	2	2	2	2	2	2	2	2	1	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	I	A
GRAU ARREC.	B	B	C	B	B	C	C	C	B	B
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	6211	6211	17 11	6211	6211	26 2	81 1	44 11	2611	721
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB058 IP0319	IAB059 IP0336	IABC60 IPC338	IABC61 IP0339	IAB062 IP0342	IAB063 IP0344	IAB064 IP0351	IAB065 IP0352	IABC68 GG0216	IAB070 MV0333
PARAMETROS ANALITICOS										
FE-S %	7,000	2,000	2,000	5,000	2,000	3,000	5,000	2,000	2,000	7,000
MG-S %	1,000	0,200	0,500	1,000	0,100	0,300	0,200	0,150	0,100	1,500
CA-S %	1,000	0,150	0,700	0,500	0,100	0,070	0,050	0,070	0,050	1,000
TI-S %	+1,000	+1,000	0,700	0,700	+1,000	0,500	0,500	0,700	+1,000	+1,000
MN-S	500,000	1000,000	500,000	700,000	500,000	200,000	500,000	300,000	500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	NAO DET.	10,000	10,000	NAO DET.	10,000	50,000	NAO DET.	150,000	NAO DET.
BA-S	500,000	500,000	700,000	700,000	500,000	200,000	300,000	500,000	200,000	1000,000
BE-S	1,000	-1,000	1,000	1,000	-1,000	2,000	1,500	1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	20,000	5,000	10,000	20,000	5,000	7,000	10,000	7,000	7,000	20,000
CR-S	100,000	50,000	100,000	200,000	100,000	100,000	150,000	70,000	50,000	150,000
CU-S	20,000	-5,000	10,000	30,000	-5,000	10,000	20,000	5,000	10,000	50,000
LA-S	30,000	200,000	150,000	70,000	300,000	50,000	30,000	100,000	70,000	300,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	10,000	15,000	10,000	10,000	20,000	10,000	10,000	15,000	10,000	10,000
NI-S	20,000	10,000	20,000	70,000	10,000	20,000	50,000	15,000	15,000	70,000
PB-S	20,000	50,000	50,000	50,000	30,000	30,000	20,000	50,000	10,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	5,000	5,000	10,000	5,000	10,000	15,000	5,000	5,000	10,000
SN-S	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	200,000	200,000	200,000	200,000	100,000	-100,000	-100,000	100,000	NAC DET.	300,000
V-S	100,000	50,000	50,000	70,000	30,000	70,000	70,000	50,000	70,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	20,000	50,000	50,000	50,000	70,000	20,000	15,000	70,000	200,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	300,000	300,000	300,000	1000,000	+1000,000	200,000	150,000	1000,000	500,000	1000,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 39

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB071	IABC72	IABC73	IABC74	IAB075	IAB076	IAB077	IABC78	IABC79	IAB080
NUM. CAMPO	MV0335	MV0337	MV0343	MV0342	MV0355	MV0356	MV0359	MV0378	MV0369	MV0387
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO										
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI
BASE CART.	4	4	2	4	2	2	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73
LATITUDE	24 30 00 S	24 30 00 S	24 15 00 S	24 30 00 S	24 15 00 S	24 15 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 00 00	47 00 00	47 00 00	47 00 00
ABCISSA - X	0326	0350	0273	0130	0212	0185	0203	0221	0063	0287
ORDENADA - Y	0418	0455	0005	0436	0066	0547	0110	0459	0053	0052
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA PEG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	A	A	C	C	B	A	A	A
TIPO VEGET.	A	A	A	A	A	C	C	C	C	C
SIT. TOPOG.	A	A	B	C	B	B	B	B	B	B
SIT. AMOST.	C	C	C	B	C	C	C	C	C	C
ALTITUDE	30	70	150	80	220	60	680	730	600	630
PROF. AMOST.	0,10	0,10	0,30	0,10	0,30	0,30	0,30	0,30	0,30	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTAMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA RIO	1	1	2	1	1	1	2	1	1	2
PROFUND. RIO	0,1	0,1	0,4	0,1	0,4	0,3	0,3	0,3	0,3	0,3
VELOC. CORR.	4	2	2	2	4	2	3	1	2	2
NIVEL AGUA	2	2	2	2	4	3	3	2	2	1
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	1	2	1	2	1	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	I	D	G	G	A	A
GRAU ARREC.	B	B	B	B	B	B	B	C	B	B
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	1621	631	631	721	631	5311	2521	2251	271	261
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB071 MV0335	IAB072 MV0337	IABC73 MV0343	IAB074 MV0342	IAB075 MV0355	IAB076 MV0356	IAB077 MV0359	IAB078 MV0378	IABC79 MV0369	IAB080 MV0387
PARAMETROS ANALITICOS										
FE-S %	7,000	3,000	5,000	7,000	5,000	5,000	5,000	5,000	3,000	5,000
MG-S %	1,500	0,300	1,500	1,500	0,700	1,000	0,200	0,200	0,100	0,100
CA-S %	1,000	0,100	1,000	1,500	0,300	0,150	-0,050	0,050	-0,050	-0,050
TI-S %	1,000	0,700	1,000	0,500	0,700	0,700	0,700	0,500	+1,000	1,000
MN-S	1000,000	300,000	700,000	2000,000	700,000	700,000	700,000	500,000	1000,000	150,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	NAC DET.	10,000	20,000	-10,000	50,000	20,000	700,000	20,000	500,000	50,000
BA-S	500,000	200,000	1000,000	500,000	300,000	500,000	300,000	300,000	200,000	150,000
BE-S	-1,000	-1,000	1,500	1,000	1,000	2,000	1,000	1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	20,000	7,000	20,000	30,000	10,000	20,000	20,000	10,000	7,000	5,000
CR-S	150,000	100,000	100,000	150,000	70,000	70,000	100,000	50,000	70,000	100,000
CU-S	20,000	10,000	20,000	50,000	10,000	20,000	20,000	30,000	10,000	10,000
LA-S	700,000	300,000	70,000	100,000	100,000	70,000	50,000	150,000	100,000	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	15,000	10,000	15,000	15,000	15,000	15,000	10,000	15,000
NI-S	50,000	20,000	70,000	50,000	20,000	50,000	30,000	20,000	10,000	20,000
PB-S	20,000	20,000	50,000	30,000	30,000	30,000	30,000	70,000	70,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
SN-S	NAO DET.	NAO DET.	10,000	NAC DET.	-10,000	NAO DET.	-10,000	10,000	50,000	NAO DET.
SR-S	300,000	NAO DET.	500,000	300,000	200,000	100,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	70,000	50,000	100,000	100,000	70,000	100,000	100,000	70,000	50,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	70,000	70,000	30,000	15,000	30,000	20,000	20,000	100,000	200,000	100,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	+1000,000	300,000	200,000	+1000,000	500,000	300,000	500,000	+1000,000	1000,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 41

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB081	IAB083	IAB084	IAB085	IAB086	IAB087	IAB088	IAB089	IAB090	IAB091
NUM. CAMPO	MV0391	GG0166	GGC169	GG0192	GG0197	GG0198	GG0201	GG0207	GG0213	GG0224
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO										
BASE CART.	SF23YCVI	SG23VAII	SG23VAII	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCVI	SF23YCV4	SF23YCV4	SG23VAII
BASE CAPT.	3	4	4	3	3	3	3			2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73	10/73
LATITUDE	24 00 00 S	24 30 00 S	24 30 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 15 00 S
LONGITUDE	47 00 00	47 15 00	47 15 00	47 00 00	47 00 00	47 00 00	47 00 00	47 15 00	47 15 00	47 15 00
ABCISSA - X	0414	0154	0223	0192	0142	0150	0220	0368	0230	0042
ORDENADA - Y	0087	0366	0347	0053	0010	0051	0009	0455	0370	0461
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLOG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	C	C	C	C	C	C	C	B	E
TIPO VEGET.	B	A	C	C	C	C	C	A	B	B
SIT. TOPOG.	B	A	D	A	B	D	D	D	A	B
SIT. AMOST.	C	A	C	C	C	C	C	C	C	C
ALTITUDE	620	140	350	640	640	640	650	760	600	510
PROF. AMOST.	0,20	0,30	0,30	0,20	0,50	0,30	0,50	0,30	0,30	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	3	3	1	1	2	1	2	2	1	1
PROFUND. RIO	0,2	0,3	0,3	0,2	0,5	0,3	1,0	0,3	0,3	0,2
VELOC. CORR.	2	2	3	1	2	1	3	2	2	1
NIVEL AGUA	2	3	4	3	2	2	3	2	3	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	1	2	1	2	1	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	D	D	G	I	A	G	G	A	G	A
GRAU ARRED.	B	B	C	B	B	B	C	C	C	A
VCL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	1621	721	721	14221	181	3241	3421	7111	2521	43111
COR SED./SL.										
HORIZ. SELO										
TIPO SELO										
AMB. BILICO										

S E A G

PROJETO - SUDEFPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB091 MV0391	IAB093 GG0166	IAB084 GG0169	IAB085 GG0192	IAB086 GG0197	IAB087 GG0198	IAB088 GG0201	IAB089 GG0207	IAB090 GG0213	IAB091 GG0224
PARAMETROS ANALITICOS										
FE-S %	5,000	10,000	10,000	5,000	1,500	7,000	2,000	2,000	1,500	2,000
MG-S %	0,500	1,500	1,000	0,200	0,100	0,100	0,070	0,150	0,200	0,300
CA-S %	0,070	1,500	0,300	-0,050	-0,050	-0,050	-0,050	0,070	0,150	0,070
TI-S %	0,500	1,000	1,000	0,500	0,500	1,000	0,500	1,000	0,300	0,500
MN-S	700,000	1000,000	1000,000	500,000	200,000	300,000	200,000	700,000	300,000	200,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	NAO DET.	NAO DET.	20,000	50,000	50,000	200,000	100,000	100,000	150,000
BA-S	300,000	700,000	500,000	150,000	100,000	100,000	100,000	300,000	500,000	300,000
BE-S	1,000	1,000	-1,000	-1,000	1,000	1,000	-1,000	-1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	20,000	20,000	10,000	5,000	5,000	5,000	5,000	5,000	7,000
CR-S	100,000	300,000	500,000	50,000	50,000	100,000	50,000	20,000	20,000	20,000
CU-S	20,000	20,000	50,000	30,000	5,000	10,000	5,000	-5,000	-5,000	5,000
LA-S	500,000	200,000	100,000	100,000	1000,000	150,000	150,000	70,000	30,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000	15,000
NI-S	30,000	70,000	70,000	20,000	10,000	20,000	7,000	10,000	10,000	15,000
PB-S	30,000	30,000	30,000	20,000	30,000	20,000	10,000	10,000	10,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	20,000	20,000	10,000	5,000	10,000	5,000	10,000	5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	700,000
SR-S	NAO DET.	300,000	150,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	100,000	-100,000
V-S	70,000	150,000	150,000	70,000	50,000	150,000	50,000	50,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	100,000	70,000	20,000	100,000	500,000	200,000	300,000	200,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	1000,000	500,000	+1000,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB107 GG0235	IAB108 GG0243	IAB109 MV0398	IAB110 MV0413	IAB111 MV0416	IAB112 MV0420	IAB113 MV0424	IAB114 JRO117	IAB115 JRO118	IAB116 JRO121
PARAMETROS ANALITICOS:										
FE-S %	2,000	3,000	1,000	5,000	2,000	7,000	2,000	5,000	3,000	3,000
MG-S %	0,100	0,050	0,100	0,150	0,100	0,150	0,150	1,000	0,700	0,300
CA-S %	0,050	0,050	0,050	-0,050	0,050	-0,050	0,050	0,700	0,500	0,500
TI-S %	0,300	0,200	0,200	0,500	0,300	0,500	0,500	0,500	0,500	0,500
MN-S	500,000	500,000	150,000	500,000	200,000	500,000	700,000	700,000	500,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	50,000	700,000	150,000	100,000	50,000	300,000	NAO DET.	NAO DET.	NAO DET.
BA-S	150,000	50,000	30,000	150,000	50,000	300,000	200,000	700,000	500,000	1000,000
BE-S	-1,000	1,000	-1,000	1,000	-1,000	2,000	2,000	1,500	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000	NAO DET.	10,000	5,000	15,000	5,000	10,000	10,000	5,000
CR-S	20,000	30,000	10,000	30,000	150,000	100,000	20,000	70,000	70,000	20,000
CU-S	20,000	20,000	-5,000	20,000	10,000	50,000	5,000	10,000	10,000	5,000
LA-S	100,000	100,000	20,000	50,000	50,000	20,000	300,000	70,000	200,000	50,000
MO-S	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	15,000	10,000	15,000	15,000	15,000	10,000	10,000
NI-S	10,000	15,000	NAO DET.	15,000	20,000	30,000	10,000	20,000	30,000	10,000
PB-S	20,000	20,000	10,000	20,000	20,000	30,000	20,000	50,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	7,000	7,000	5,000	10,000	10,000	15,000	7,000	7,000	5,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	300,000	200,000	500,000
V-S	50,000	50,000	20,000	70,000	70,000	100,000	50,000	100,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	70,000	50,000	20,000	50,000	50,000	50,000	500,000	20,000	30,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	300,000	150,000	+1000,000	200,000	300,000	200,000	1000,000	300,000	1000,000	300,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 45

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB117	IAB118	IAB119	IAB120	IAB121	IAB122	IAB123	IAB124	IAB125	IAB126
NUM. CAMPO	JR0128	JR0129	JRC132	JR0133	JR0135	JR0136	JR0137	JR0138	JR0148	IP0353
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV
BASE CART.	2	2	2	2	2	2	2	2	2	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 00 00
ABCISSA - X	0356	0357	0412	0376	0260	0240	0312	0324	0435	0203
ORDENADA - Y	0495	0489	0492	0458	0411	0434	0377	0417	0469	0011
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	D	D	B	B	A	B
TIPO VEGET.	A	A	C	C	A	C	C	C	A	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	740	720	830	470	450	500	440	550	790	700
PROF. AMOST.	0,10	0,30	0,30	0,20	0,10	0,10	0,10	0,10	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	1	1	1	1	2	1	1	1	1
PROFUND. RIO	0,2	0,4	0,4	0,3	0,2	0,2	0,2	0,2	0,2	0,3
VELOC. CORR.	2	2	3	3	3	3	4	3	3	2
NIVEL AGUA	2	2	2	2	3	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	2	1	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	D	A	A	A	G	A	A	A	A	A
GRAU ARFEED.	C	C	C	C	C	B	C	C	C	C
VCL. ORIGIN.										
PEST. CCNC.										
GRANULEMST.										
TEXT. SEDIM.	4132	7111	5 11	7111	811	72	26 11	7111	811	17 11
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
ANH. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB117 JRO128	IAB118 JRO129	IAB119 JRC132	IAB120 JRC133	IAB121 JRO135	IAB122 JRO136	IAB123 JRO137	IAB124 JRO138	IAB125 JRO148	IAB126 IPO353
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	3,000	5,000	2,000	5,000	3,000	3,000	2,000	2,000
MG-S %	0,300	1,000	0,500	0,500	1,500	1,500	1,500	0,300	0,300	0,500
CA-S %	0,200	0,700	0,500	0,700	1,500	1,500	1,500	0,700	0,700	0,500
TI-S %	0,500	1,000	0,700	0,500	0,500	1,000	0,300	0,300	1,000	0,300
MN-S	700,000	500,000	300,000	500,000	1000,000	1000,000	1500,000	500,000	500,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	20,000	10,000	20,000	NAO DET.	NAO DET.	NAO DET.
BA-S	1000,000	700,000	1500,000	1000,000	1000,000	1000,000	1000,000	2000,000	1500,000	700,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,500	1,500	2,000	15,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	10,000	5,000	5,000	5,000	10,000	5,000	-5,000	-5,000	-5,000
CR-S	20,000	50,000	30,000	50,000	20,000	20,000	20,000	20,000	15,000	15,000
CU-S	-5,000	-5,000	NAO DET.	NAO DET.	-5,000	5,000	5,000	-5,000	NAO DET.	NAO DET.
LA-S	50,000	70,000	50,000	50,000	20,000	50,000	20,000	50,000	50,000	20,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	15,000	15,000	15,000	10,000	10,000	10,000	-10,000	10,000	-10,000
NI-S	10,000	15,000	10,000	7,000	7,000	10,000	10,000	7,000	7,000	7,000
PB-S	30,000	30,000	30,000	30,000	30,000	30,000	20,000	30,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	7,000	5,000	5,000	5,000	10,000	5,000	-5,000	5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	300,000	500,000	500,000	500,000	500,000	500,000	300,000	700,000	500,000	300,000
V-S	50,000	70,000	50,000	50,000	30,000	100,000	30,000	30,000	50,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	10,000	-10,000	-10,000	-10,000	15,000	10,000	-10,000	-10,000	-10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	500,000	1000,000	1000,000	300,000	200,000	200,000	100,000	500,000	300,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 47

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB127	IAB128	IAB129	IAB130	IAB131	IAB132	IAB123	IAB134	IAB125	IAB136
NUM. CAMPO	IP0354	IP0355	IP0357	IP0358	IP0359	IP0360	IP0363	IP0364	IP0366	IP0367
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14	SG22XB14
BASE CART.		1	1	1	1	1		1	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 30 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 15 00	49 30 00	49 30 00	49 30 00	49 30 00	49 30 00	49 15 00	49 30 00	49 15 00	49 15 00
ABCISSA - X	0413	0458	0424	0391	0490	0499	0181	0411	0040	0051
ORDENADA - Y	0135	0155	0239	0286	0230	0246	0024	0344	0246	0267
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLOG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	C	B	B	B	B	B
TIPO VEGET.	C	A	A	C	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	700	660	640	580	510	520	630	680	520	500
PRCF. AMOST.	0,20	0,20	0,20	0,10	0,90	0,10	0,40	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	1	1	1	3	1	1	1	1	1
PROFUND. RIO	0,3	0,2	0,1	0,2	0,3	0,2	0,3	0,2	0,2	0,2
VELOC. CORR.	3	2	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	1	2	1	1	1	2	1	2	2
POS. COLTA	C	C	C	C	C	C	C	C	C	C
COR AGUA	D	A	D	A	D	A	D	D	A	A
GRAU ARRED.	C	B	B	C	C	C	B	C	C	C
VCL. ORIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	9 11	6121	6121	92	40 11	53 11	6211	26 11	17 11	17 11
CHK SIC./SL.										
HORIZ. SCLD										
TIPO SCLD										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170.

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB127 IP0354	IAB128 IP0355	IAB129 IP0357	IAB130 IP0358	IAB131 IP0359	IAB132 IP0360	IAB133 IP0363	IAB134 IP0364	IAB135 IP0366	IAB136 IP0367
PARAMETROS ANALITICOS										
FE-S %	2,000	3,000	2,000	3,000	5,000	5,000	3,000	3,000	7,000	5,000
MG-S %	0,200	0,300	0,200	0,500	0,700	0,700	1,000	1,000	0,500	1,000
CA-S %	0,300	0,300	0,150	0,500	1,000	0,500	0,700	1,000	0,500	1,000
TI-S %	0,500	0,700	1,000	0,300	0,500	1,000	0,500	1,000	1,000	0,500
MN-S	500,000	1000,000	700,000	1000,000	1000,000	1000,000	1000,000	1000,000	700,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
BA-S	1500,000	1000,000	1000,000	1000,000	1500,000	700,000	500,000	1500,000	1000,000	1000,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	-1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	-5,000	5,000	5,000	10,000	10,000	10,000	10,000	7,000	7,000	10,000
CR-S	15,000	50,000	20,000	20,000	50,000	70,000	70,000	50,000	70,000	70,000
CU-S	NAO DET.	NAO DET.	5,000	5,000	5,000	50,000	30,000	5,000	5,000	5,000
LA-S	30,000	70,000	50,000	50,000	70,000	50,000	70,000	50,000	50,000	70,000
MO-S	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	50,000	10,000	10,000	20,000	15,000	10,000	10,000	20,000	20,000
NI-S	7,000	10,000	10,000	10,000	10,000	20,000	30,000	10,000	10,000	20,000
PB-S	30,000	50,000	30,000	30,000	30,000	30,000	30,000	20,000	30,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	-5,000	5,000	-5,000	5,000	7,000	7,000	7,000	5,000	5,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	300,000	300,000	200,000	500,000	500,000	300,000	200,000	700,000	500,000	500,000
V-S	50,000	50,000	50,000	50,000	100,000	100,000	70,000	70,000	100,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	-10,000	10,000	10,000	10,000	15,000	15,000	15,000	10,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	1000,000	+1000,000	1000,000	200,000	500,000	500,000	300,000	500,000	1000,000	500,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB137 IP0368	IAB138 IP0369	IAB139 IP0371	IAB140 IP0372	IAB141 IP0374	IAB142 IP0376	IAB143 IP0377	IAB144 IP0378	IAB145 IP0380	IAB146 IP0381
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	5,000	3,000	7,000	5,000	3,000	3,000	7,000	5,000
MG-S %	0,500	0,700	0,500	0,200	0,200	0,300	0,200	0,300	0,100	0,200
CA-S %	1,000	0,700	0,700	0,200	0,150	0,300	0,150	0,200	-0,050	0,100
TI-S %	0,500	1,000	1,000	1,000	+1,000	1,000	+1,000	+1,000	0,700	0,700
MN-S	1000,000	1500,000	700,000	1000,000	1000,000	1500,000	700,000	1500,000	2000,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	10,000	10,000	-10,000
BA-S	1500,000	1500,000	1000,000	700,000	1500,000	1500,000	700,000	1000,000	500,000	500,000
BE-S	-1,000	1,000	1,000	1,000	-1,000	1,000	-1,000	-1,000	2,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	7,000	7,000	7,000	7,000	7,000	7,000	10,000	7,000	5,000
CR-S	70,000	50,000	50,000	20,000	30,000	30,000	50,000	50,000	30,000	50,000
CU-S	5,000	5,000	5,000	7,000	5,000	5,000	10,000	5,000	-5,000	-5,000
LA-S	20,000	20,000	20,000	20,000	20,000	50,000	20,000	50,000	150,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	10,000	-5,000
NB-S	15,000	10,000	15,000	15,000	20,000	15,000	15,000	15,000	50,000	100,000
NI-S	15,000	10,000	10,000	10,000	10,000	15,000	10,000	15,000	10,000	10,000
PB-S	20,000	20,000	20,000	30,000	20,000	20,000	20,000	20,000	150,000	100,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	7,000	7,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	700,000	500,000	500,000	200,000	300,000	500,000	200,000	300,000	200,000	200,000
V-S	70,000	70,000	70,000	50,000	70,000	50,000	70,000	70,000	150,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	10,000	10,000	15,000	-10,000	-10,000	-10,000	-10,000	10,000	20,000	10,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	1000,000	300,000	1000,000	500,000	+1000,000	1000,000	+1000,000	+1000,000	500,000	1000,000

CPRM CALASTRO GEOQUIMICO

23.01.75

FLA. 51

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB147	IAB148	IAB149	IAB150	IAB151	IAB152	IAB153	IAB154	IAB155	IAB156
NUM. CAMPO	IP0384	IP0386	IP0387	IP0388	IP0389	FB0092	FB0098	FB0100	FB0102	FB0109
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG23VAIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV
BASE CART.	2	2	2	2	1	1	2	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	49 30 00	48 00 00	49 15 00	49 15 00	49 15 00	49 15 00
ABCISSA - X	0146	0082	0109	0090	0425	0033	0181	0165	0210	0096
ORDENADA - Y	0177	0240	0206	0194	0128	0443	0329	0284	0171	0333
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FRONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	M	S	S	S	S
ID. GEOLG.	CI	CI	CI	CI	CI	AM	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	C	C	C	C	C	A	E	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	C	A	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	200	580	340	320	370	90	570	500	300	620
PROF. AMOST.	0,30	0,10	0,30	0,10	0,10	0,25	0,20	0,15	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINEF.										
DEP. CCCC.										
LARGURA RIO	2	1	3	1	1	6	1	2	1	3
PROFUND. RIC	1,0	0,2	0,4	0,2	0,2	0,5	0,3	0,3	0,2	0,3
VELOC. CORR.	4	2	3	4	4	3	3	1	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	2	2	1	1	1
TURB. AGUA	1	1	1	2	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
CUR AGUA	G	A	A	A	G	A	A	A	A	A
GRAU ARRED.	C	C	C	C	C	B	C	B	C	B
VOL. DRIGIN.										
PESC. CCNC.										
GRANULOMET.										
TEXT. SEDIM.	53 11	26 11	26 11	8 11	34 21	1711	5311	631	631	721
COR. SEC./BL.										
HORIZ. SOLL.										
TIPO SOLL.										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB147 IP0384	IAB148 IP0386	IAB149 IP0387	IAB150 IP0388	IAB151 IP0389	IAB152 FB0092	IAB153 FB0098	IAB154 FB0100	IAB155 FB0102	IAB156 FB0109
PARAMETROS ANALITICOS										
FE-S %	7,000	5,000	5,000	10,000	2,000	3,000	2,000	5,000	5,000	5,000
MG-S %	0,500	1,000	0,500	0,500	0,500	0,200	0,200	1,000	0,700	0,700
CA-S %	0,500	1,000	0,700	0,700	0,700	0,070	0,150	1,000	0,700	0,500
TI-S %	0,500	+1,000	+1,000	+1,000	0,500	+1,000	1,000	+1,000	0,700	+1,000
MN-S	500,000	700,000	500,000	1000,000	1000,000	1000,000	300,000	700,000	1000,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	20,000	10,000	-10,000	20,000	-10,000
BA-S	1000,000	1500,000	2000,000	1500,000	1000,000	200,000	500,000	700,000	1000,000	1500,000
BE-S	1,000	1,000	1,000	1,000	2,000	-1,000	-1,000	1,500	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	7,000	7,000	5,000	10,000	5,000	10,000	5,000	15,000	10,000	10,000
CR-S	150,000	70,000	70,000	100,000	20,000	50,000	100,000	100,000	50,000	100,000
CU-S	5,000	5,000	-5,000	5,000	-5,000	5,000	5,000	7,000	15,000	5,000
LA-S	20,000	50,000	20,000	50,000	50,000	150,000	70,000	150,000	30,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	10,000	10,000	15,000	20,000	10,000	10,000	15,000	15,000	15,000
NI-S	20,000	15,000	10,000	15,000	10,000	10,000	10,000	50,000	15,000	15,000
PB-S	30,000	20,000	20,000	20,000	50,000	10,000	30,000	30,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	5,000	-5,000	5,000	5,000	5,000	-5,000	-5,000	-5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	300,000	500,000	300,000	200,000	500,000	NAO DET.	300,000	500,000	500,000	700,000
V-S	100,000	70,000	70,000	150,000	50,000	70,000	70,000	100,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	10,000	-10,000	10,000	10,000	50,000	15,000	15,000	15,000	-10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	1000,000	500,000	500,000	1000,000	200,000	1000,000	+1000,000	1000,000	1000,000	1000,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 53

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB157	IAB158	IAB159	IAB160	IAB161	IAB162	IAB163	IAB164	IAB165	IAB166
NUM. CAMPO	FB0110	FB0111	FBC113	FB0114	FB0115	FB0116	FB0118	FB0125	FB0127	AM0117
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV
BASE CART.	2	2	2	2	2	2	2	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00
ABCISSA - X	0159	0168	0114	0116	0096	0080	0070	0220	0236	0420
ORDENADA - Y	0379	0321	0431	0431	0481	0489	0439	0422	0395	0216
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLCG.	AI	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	C	C	C	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	600	640	660	660	720	710	670	430	400	210
PROF. AMOST.	0,20	0,20	0,20	0,20	0,20	0,30	0,40	0,30	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	1	2	2	2	2	4	4	3	2	2
PROFUND. RIO	0,3	0,3	0,3	0,3	0,4	0,3	0,5	0,5	0,2	0,3
VELCC. CORR.	3	3	3	3	3	3	3	3	3	4
NIVEL AGUA	2	2	3	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	0	1	2	2	1	1	2	1	1	2
POS. COLTA	F	D	D	C	F	D	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	C
GRAU APRED.	B	B	B	B	B	B	B	B	B	C
VCL. ORIGIN.										
PESC CCNC.										
GRANULEMT.										
TEXT. SEDIM.	631	721	631	631	721	721	622	721	361	1333
COR SED. / SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB157 FB0110	IAB158 FB0111	IAB159 FB0113	IAB160 FB0114	IAB161 FB0115	IAB162 FB0116	IAB163 FB0118	IAB164 FB0125	IAB165 FB0127	IAB166 AM0117
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	3,000	5,000	2,000	5,000	5,000	7,000	7,000	1,000
MG-S %	0,700	0,500	0,500	0,500	0,700	0,700	0,500	1,500	0,500	0,300
CA-S %	1,000	0,500	0,500	0,300	0,700	0,700	0,500	1,500	0,700	0,100
TI-S %	+1,000	1,000	1,000	1,000	+1,000	1,000	+1,000	1,000	1,000	0,150
MN-S	1000,000	300,000	500,000	300,000	700,000	700,000	1000,000	700,000	500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	-10,000	-10,000	10,000	-10,000	20,000	10,000	-10,000	-10,000	-10,000	50,000
BA-S	1000,000	700,000	1000,000	700,000	1000,000	1000,000	1000,000	1000,000	1500,000	50,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	-1,000	1,000	1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	10,000	10,000	15,000	7,000	7,000	7,000	15,000	10,000	5,000
CR-S	50,000	70,000	20,000	100,000	30,000	50,000	30,000	100,000	150,000	30,000
CU-S	5,000	7,000	5,000	7,000	7,000	10,000	10,000	20,000	10,000	10,000
LA-S	50,000	50,000	70,000	50,000	50,000	100,000	70,000	50,000	50,000	-20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	15,000	15,000	10,000	10,000	15,000	10,000	10,000	-10,000
NI-S	15,000	15,000	10,000	20,000	15,000	20,000	15,000	30,000	20,000	7,000
PB-S	50,000	50,000	20,000	30,000	30,000	30,000	30,000	30,000	30,000	-10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	1000,000	300,000	500,000	300,000	500,000	500,000	300,000	500,000	500,000	NAO DET.
V-S	70,000	70,000	70,000	100,000	70,000	100,000	100,000	100,000	150,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	-10,000	-10,000	10,000	-10,000	20,000	10,000	10,000	10,000	-10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	1000,000	1000,000	500,000	1000,000	500,000	1000,000	1000,000	300,000	700,000	70,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 55

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB167	IAB168	IAB169	IAB170	IAB171	IAB172	IAB173	IAB174	IAB175	IAB176
NUM. CAMPO	AM0123	AM0124	AM0125	AM0126	AM0128	AM0133	AM0134	AM0135	AM0136	AM0137
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV
BASE CART.	2	2	2	2	2	2	2	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00	49 15 00
ABCISSA - X	0301	0281	0276	0282	0339	0422	0434	0393	0382	0312
ORDENADA - Y	0172	0192	0191	0168	0178	0270	0286	0319	0321	0317
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	K	K	K	K	K	K	K	K	K	K
ID. GELLOG.	AS	AS	AS	AS	AS	AS	BX	CI	BX	BX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	B	B	B
TIPO VEGET.	A	C	C	C	C	C	A	A	A	A
SIT. TOPOG.	A	B	B	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	200	300	300	220	260	270	190	200	195	210
PROF. AMOST.	0,15	0,30	0,30	0,20	0,20	0,10	0,25	0,20	0,25	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	2	2	2	2	2	2	4	8	4	2
PROFUND. RIO	0,3	0,4	0,5	0,4	0,3	0,1	0,5	0,4	0,3	0,3
VELOC. CORR.	4	4	4	4	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	1	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	2	2	2	2
TURB. AGUA	2	2	2	2	2	1	2	2	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	C	B	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PFSL CONC.										
GRANULOM T.										
TEXT. SEDIM.	1333	334	622	1512	1121	26	2611	2611	3511	2341
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB167 AM0123	IAB168 AM0124	IAB169 AM0125	IAB170 AM0126	IAB171 AM0128	IAB172 AM0133	IAB173 AM0134	IAB174 AM0135	IAB175 AM0136	IAB176 AM0137
PARAMETROS ANALITICOS										
FE-S %	2,000	1,000	0,700	1,500	3,000	3,000	15,000	3,000	20,000	2,000
MG-S %	0,300	0,300	0,500	0,300	0,200	1,000	0,500	0,500	0,500	1,500
CA-S %	0,100	0,150	1,000	0,200	0,150	1,000	0,700	1,000	0,700	0,700
TI-S %	0,300	0,200	0,150	0,200	0,500	0,500	0,700	0,700	0,700	0,200
MN-S	1500,000	2000,000	700,000	2000,000	1000,000	5000,000	1000,000	500,000	300,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	20,000	70,000	50,000	50,000	20,000	10,000	-10,000	10,000	NAO DET.	70,000
BA-S	150,000	200,000	150,000	150,000	70,000	700,000	700,000	2000,000	700,000	300,000
BE-S	-1,000	-1,000	1,500	1,000	1,000	1,500	1,000	1,500	1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	5,000	5,000	5,000	7,000	7,000	15,000	5,000	15,000	10,000
CR-S	30,000	20,000	70,000	30,000	50,000	70,000	150,000	50,000	200,000	50,000
CU-S	7,000	15,000	10,000	10,000	20,000	5,000	10,000	-5,000	5,000	20,000
LA-S	20,000	-20,000	-20,000	-20,000	20,000	50,000	100,000	70,000	100,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	-10,000	-10,000	-10,000	15,000	10,000	10,000	-10,000	10,000	10,000
NI-S	15,000	15,000	10,000	10,000	10,000	7,000	30,000	10,000	50,000	15,000
PB-S	-10,000	-10,000	-10,000	-10,000	-10,000	20,000	30,000	30,000	10,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	-100,000	-100,000	NAO DET.	500,000	300,000	700,000	500,000	100,000
V-S	30,000	30,000	20,000	20,000	30,000	70,000	200,000	70,000	200,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	-10,000	-10,000	-10,000	-10,000	10,000	-10,000	15,000	-10,000	15,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	100,000	70,000	70,000	100,000	70,000	500,000	+1000,000	300,000	+1000,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 57

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB177	IAB178	IAB179	IAB180	IAB181	IAB182	IAB183	IAB184	IAB185	IAB186
NUM. CAMPO	AM0140	AM0150	AM0154	AM0155	JD0337	JD0338	JD0339	JD0343	JD0345	JD0346
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBIV	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	2	2	2	2	14	14	14	14	14	14
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	49 15 00	49 15 00	49 15 00	49 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0302	0331	0198	0238	0393	0361	0333	0290	0211	0206
ORDENADA - Y	0313	0309	0475	0519	0165	0189	0202	0294	0279	0289
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	K	K	S	S	C	C	C	C	C	C
ID. GEOLG.	AS	AS	BX	BX	AI	AI	AI	BI	BI	BI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	A	A	B	B	B	C	C	B
TIPO VEGET.	A	A	C	C	C	A	C	C	D	B
SIT. TOPOG.	A	C	A	A	C	C	D	A	B	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	250	170	390	370	105	110	120	80	120	120
PROF. AMOST.	0,25	0,20	0,10	0,20	0,45	0,45	0,45	0,45	0,25	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	2	1	1	2	2	2	3	5	5	7
PROFUND. RIO	0,3	0,3	0,2	0,3	0,5	0,5	0,5	0,5	0,3	0,4
VELG. CORR.	3	2	2	3	1	1	1	3	2	3
NIVEL AGUA	2	2	2	2	2	1	1	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	2	2	2
TURB. AGUA	2	2	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	B	B	B	B	B	B	B	C	C	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	2341	2341	2611	2512	811		91	811	811	811
COP SED./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BICTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB177 AM0140	IAB178 AM0150	IAB179 AM0154	IAB180 AM0155	IAB181 JD0337	IAB182 JD0338	IAB183 JD0339	IAB184 JD0343	IAB185 JD0345	IAB186 JD0346
PARAMETROS ANALITICOS										
FE-S %	1,000	1,500	5,000	3,000	2,000	2,000	3,000	3,000	5,000	5,000
MG-S %	1,000	1,000	0,700	0,700	0,150	0,100	0,200	0,500	0,700	0,700
CA-S %	1,000	1,500	0,700	0,500	0,070	0,050	0,150	0,100	0,300	0,100
TI-S %	0,150	0,200	+1,000	1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000
MN-S	1000,000	2000,000	700,000	500,000	700,000	1000,000	1000,000	1000,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	70,000	30,000	20,000	10,000	500,000	500,000	300,000	100,000	50,000	70,000
BA-S	300,000	300,000	1500,000	2000,000	300,000	200,000	300,000	300,000	300,000	300,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	1,500	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	5,000	5,000	10,000	15,000	10,000	10,000	15,000	15,000	30,000	30,000
CR-S	10,000	20,000	70,000	50,000	20,000	20,000	70,000	50,000	100,000	50,000
CU-S	5,000	7,000	5,000	15,000	7,000	7,000	20,000	20,000	50,000	30,000
LA-S	20,000	30,000	70,000	70,000	50,000	30,000	100,000	50,000	50,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	-10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	10,000	10,000	15,000	20,000	10,000	10,000	20,000	20,000	30,000	20,000
PB-S	-10,000	-10,000	30,000	50,000	30,000	10,000	50,000	50,000	50,000	70,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	-5,000	-5,000	-5,000	-5,000	-5,000	7,000	10,000	10,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	100,000	100,000	500,000	700,000	-100,000	-100,000	100,000	-100,000	100,000	-100,000
V-S	20,000	30,000	70,000	70,000	50,000	50,000	70,000	100,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	-10,000	-10,000	15,000	10,000	20,000	50,000	20,000	10,000	20,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	70,000	70,000	500,000	300,000	300,000	100,000	300,000	200,000	200,000	200,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 59

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB187	IAB188	IAB189	IAB190	IAB191	IAB192	IAB193	IAB194	IAB195	IAB196
NUM. CAMPO	JD0365	JD0368	JD0370	JD0371	JD0372	JD0373	JD0374	JD0375	JD0376	JD0377
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	I4	I4	I4	I4	I4	I4	I4	I4	I4	I4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0246	0191	0338	0260	0241	0213	0201	0178	0178	0169
ORDENADA - Y	0204	0161	0056	0546	0539	0529	0522	0528	0530	0528
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	A	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	S	D	D	D	D	D	D	D
ID. GEOLG.	AI	AI	BX	EX	BX	BX	BX	BX	BX	BX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	B	B	A	B	B	B	B	B	B	B
SIT. TOPOG.	C	C	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	120	200	80	120	130	130	140	140	140	140
PROF. AMOST.	0,25	0,25	0,35	0,35	0,45	0,35	0,25	0,25	0,25	0,25
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	2	3	4	7	4	3	3	3	3
PROFUND. RIO	0,3	0,3	0,4	0,4	0,5	0,4	0,3	0,3	0,3	0,3
VELOC. CORR.	2	2	2	2	2	1	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	2	2	1	2	2	2	2
TURB. AGUA	1	1	1	2	2	1	1	1	1	1
POS. COLETA	C	C	C	F	C	C	C	C	C	C
COR AGUA	A	A	A	H	A	A	A	A	A	A
GRAU ARRED.	B	B	B	C	C	B	B	B	B	B
VEL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	11	11	11	11	11	11	11	11	11	11
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB187 JD0365	IAB188 JD0368	IAB189 JD0370	IAB190 JD0371	IAB191 JD0372	IAB192 JD0373	IAB193 JD0374	IAB194 JD0375	IAB195 JD0376	IAB196 JD0377
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	3,000	3,000	5,000	3,000	3,000	3,000	3,000	3,000
MG-S %	0,300	0,300	0,500	0,500	0,700	0,500	0,500	0,500	0,700	1,000
CA-S %	0,200	0,100	0,300	0,100	0,200	0,070	0,500	0,100	-0,050	0,070
TI-S %	1,000	+1,000	1,000	1,000	1,000	0,500	1,000	+1,000	0,500	0,500
MN-S	700,000	1000,000	700,000	700,000	1000,000	700,000	700,000	700,000	2000,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	100,000	20,000	150,000	100,000	100,000	30,000	100,000	150,000	150,000
BA-S	300,000	200,000	500,000	300,000	300,000	300,000	1000,000	300,000	500,000	300,000
BE-S	1,000	-1,000	-1,000	-1,000	100,000	20,000	1,500	-1,000	1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	30,000	5,000	10,000	15,000	10,000	10,000	15,000	15,000	15,000
CR-S	30,000	70,000	50,000	100,000	100,000	150,000	100,000	70,000	100,000	150,000
CU-S	30,000	50,000	15,000	20,000	50,000	50,000	50,000	30,000	50,000	30,000
LA-S	70,000	70,000	70,000	30,000	30,000	20,000	20,000	50,000	50,000	50,000
MO-S	7,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	-10,000	10,000	10,000	10,000	10,000
NI-S	15,000	20,000	15,000	20,000	30,000	30,000	30,000	15,000	20,000	50,000
PB-S	50,000	50,000	50,000	15,000	30,000	30,000	50,000	50,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	30,000	20,000	20,000	20,000	20,000	30,000	30,000	30,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	100,000	-100,000	100,000	100,000	100,000	-100,000	300,000	-100,000	-100,000	-100,000
V-S	70,000	150,000	100,000	70,000	100,000	70,000	100,000	100,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	15,000	15,000	15,000	15,000	15,000	10,000	10,000	30,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	150,000	150,000	500,000	200,000	300,000	200,000	500,000	150,000	200,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 61

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB197	IAB198	IAB199	IAB200	IAB201	IAB202	IAB203	IAB204	IAB205	IAB226
NUM. CAMPO	JD0378	JL0339	JLC359	JL0363	JL0366	JL0371	JL0375	JL0376	JL0379	JD0393
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	I4	I4	I4	I4	I4	I4	I4	I4	I4	I4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	11/73	12/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X.	0160	0344	0470	0150	0271	0279	0130	0124	0157	0185
ORDENADA - Y	0519	0278	0207	0364	0554	0516	0159	0168	0166	0086
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	B	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	C	C	D	C	D	C	C	D	C
ID. GEOLOG.	EX	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	D	C	D	C	C	D	D	D	B
TIPO VEGET.	B	C	A	B	C	B	B	B	C	A
SIT. TOPOG.	A	B	B	B	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	150	100	120	220	150	130	100	120	120	100
PROF. AMOST.	0,35	0,30	0,50	0,30	0,40	0,30	0,50	0,30	0,50	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	4	2	2	2	6	2	5	3	2	3
PROFUND. RIO	0,4	0,4	0,6	0,4	0,5	0,4	0,5	0,4	0,5	0,4
VELOC. CORR.	2	2	2	3	3	4	2	3	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	1	2	1	2	2	2	1	2	1
TURB. AGUA	1	1	1	2	2	2	2	2	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	C	C	C	C	B	C	C	C	B
VOL. ORIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	91	721	911	911	911	911	911	911	911	911
COR SED./SL.										
HORIZ. SOLL										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB197 JD0378	IAB198 JL0339	IAB199 JLC359	IAB200 JL0363	IAB201 JL0366	IAB202 JL0371	IAB203 JL0375	IAB204 JL0376	IAB205 JL0379	IAB226 JD0393
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	2,000	15,000	5,000	5,000	5,000	7,000	5,000	3,000
MG-S %	0,700	0,300	0,200	0,700	1,000	0,500	0,500	0,500	1,000	0,300
CA-S %	0,150	0,100	0,100	0,500	0,300	0,100	0,100	0,070	0,300	0,100
TI-S %	0,500	+1,000	+1,000	+1,000	0,700	1,000	1,000	+1,000	1,000	+1,000
MN-S	700,000	1000,000	700,000	700,000	1000,000	500,000	1000,000	1000,000	1000,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	150,000	150,000	700,000	50,000	200,000	50,000	200,000	100,000	50,000	500,000
BA-S	500,000	300,000	300,000	700,000	1000,000	500,000	500,000	500,000	500,000	200,000
BE-S	5,000	-1,000	1,000	-1,000	5,000	1,000	1,000	1,000	2,000	2,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	20,000	5,000	30,000	10,000	7,000	10,000	15,000	15,000	15,000
CR-S	150,000	50,000	50,000	200,000	70,000	20,000	50,000	70,000	50,000	50,000
CU-S	50,000	30,000	50,000	70,000	50,000	30,000	50,000	50,000	50,000	30,000
LA-S	50,000	150,000	20,000	-20,000	30,000	30,000	30,000	30,000	50,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	15,000	10,000	10,000	10,000	10,000	10,000	15,000	15,000	10,000
NI-S	50,000	10,000	10,000	70,000	30,000	15,000	20,000	30,000	20,000	30,000
PB-S	30,000	50,000	20,000	30,000	30,000	50,000	50,000	20,000	70,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	30,000	20,000	-5,000	20,000	10,000	5,000	15,000	15,000	15,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	-100,000	-100,000	-100,000	200,000	200,000	100,000	-100,000	100,000	-100,000	NAO DET.
V-S	70,000	70,000	30,000	300,000	100,000	100,000	100,000	150,000	100,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	30,000	20,000	10,000	10,000	-10,000	10,000	15,000	15,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	300,000	+1000,000	+1000,000	200,000	300,000	300,000	500,000	300,000	100,000

CPRM CADERNO GEOQUIMICO

23.01.75

FLA. 63

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB227	IAB228	IAB229	IAB230	IAB231	IAB232	IAB233	IAB234	IAB235	IAB236
NUM. CAMP.	JD0397	JD0398	JDC399	JD0400	JD0403	JL0382	JL0383	JL0384	JL0385	JL0387
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	I4	I4	I4	I4	I4	I4	I4	I4	I4	I4
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	12/73	12/73	12/73	12/73	12/73	12/73	12/73	12/73	12/73	12/73
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABSCISSA - X	0041	0050	0025	0068	0252	0086	0090	0093	0066	0061
ORDENADA - Y	0000	0019	0056	0093	0041	0403	0369	0435	0407	0375
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AS	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	B	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	C	C	C	C	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	0	80	80	80	80	200	200	200	200	200
PROF. AMOST.	0,25	0,35	0,35	0,35	0,35	0,50	0,60	0,50	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTIMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOK.										
LARGURA FI.	2	2	4	5	4	4	8	1	6	5
PRUFUND. RIO	0,5	0,4	0,4	0,4	0,4	0,7	0,8	0,7	0,4	0,4
VELOC. CORR.	1	1	2	2	2	3	3	3	3	3
NIVEL AGUA	1	1	2	2	2	3	3	3	3	3
AREA DRENAG.	1	1	2	2	1	1	1	2	1	2
TURB. AGUA	0	0	1	1	1	1	1	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ASSID.		B	C	B	B	B	B	B	B	B
VCL. ORIENT.										
PESO CONC.										
GEN. LITOL.										
TEXT. SEDIM.	1	811	811	1711	81	721	811	721	811	811
CO. SED. / SL.										
HORIZ. SILL.										
TIPO SOLO										
AMB. BENTON.										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB227 JD0397	IAB228 JD0398	IAB229 JD0399	IAB230 JD0400	IAB231 JD0403	IAB232 JL0382	IAB233 JL0383	IAB234 JL0384	IAB235 JL0385	IAB236 JL0387
PARAMETROS ANALITICOS										
FE-S %	7,000	7,000	7,000	5,000	2,000	5,000	3,000	7,000	1,500	7,000
MG-S %	0,100	0,300	0,200	0,200	0,200	0,300	0,300	0,300	0,300	0,300
CA-S %	-0,050	0,050	0,200	0,050	0,050	0,500	0,300	0,500	0,100	0,100
TI-S %	0,500	+1,000	+1,000	+1,000	0,300	1,000	+1,000	+1,000	0,500	+1,000
MN-S	2000,000	700,000	3000,000	2000,000	300,000	500,000	300,000	700,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	100,000	20,000	50,000	150,000	70,000	100,000	100,000	70,000	20,000
BA-S	200,000	200,000	300,000	300,000	500,000	1500,000	1000,000	700,000	1500,000	500,000
BE-S	2,000	1,000	1,000	1,500	1,000	1,000	1,000	1,000	1,500	3,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	30,000	15,000	15,000	5,000	10,000	10,000	15,000	5,000	30,000
CR-S	70,000	100,000	50,000	50,000	15,000	50,000	50,000	70,000	20,000	70,000
CU-S	70,000	30,000	20,000	30,000	10,000	15,000	20,000	20,000	10,000	70,000
LA-S	50,000	20,000	20,000	20,000	70,000	50,000	20,000	20,000	20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.
NB-S	10,000	15,000	15,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	70,000	15,000	30,000	5,000	15,000	15,000	20,000	10,000	50,000
PB-S	10,000	10,000	20,000	20,000	30,000	30,000	20,000	20,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	20,000	5,000	10,000	5,000	15,000	10,000	10,000	5,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	150,000	-100,000	-100,000	700,000	300,000	300,000	300,000	150,000
V-S	70,000	100,000	100,000	100,000	30,000	70,000	70,000	70,000	30,000	150,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	15,000	10,000	15,000	10,000	10,000	50,000	10,000	-10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	70,000	200,000	300,000	100,000	200,000	500,000	500,000	+1000,000	100,000	700,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 65

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB237	IAB238	IAB239	IAB240	IAB245	IAB246	IAB247	IAB248	IAB249	IAB250
NUM. CAMPO	JL0388	JL0389	JL0390	JL0391	GG0284	GG0288	GG0249	GG0295	GG0300	GG0290
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310						
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG23VAIV	SG23VAIV	2G23VAII	SG23VAII	SG23VAII	SG23VAIV
BASE CART.	14	14	14	14	3	3	1	11	11	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	12/73	12/73	12/73	12/73	01/74	01/74	01/74	01/74	01/74	01/74
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	25 00 00 S	25 00 00 S	24 15 00 S	24 15 00 S	24 15 00 S	25 00 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 00 00	48 00 00	47 15 00	47 00 00	47 00 00	48 00 00
ABCISSA - X	0062	0007	0008	0016	0045	0058	0072	0143	0200	0077
ORDENADA - Y	0280	0357	0225	0279	0120	0202	0453	0145	0515	0347
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	C	C	C	C	C	C
ID. GEOLCG.	AI	AI	AI	AI	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	D	D	A	A	A	A	A	A
TIPO VEGET.	B	B	B	B	C	A	C	B	C	A
SIT. TOPCG.	B	B	B	B	B	A	B	B	B	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	200	200	200	200	50	70	550	710	780	130
PRCF. AMOST.	0,40	0,60	0,40	0,70	0,30	0,30	0,10	0,30	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	4	6	6	8	3	6	2	2	2	2
PROFUND. RIO	0,5	0,7	0,6	0,8	0,3	0,3	0,1	0,3	0,3	0,3
VELOC. CORR.	3	3	3	2	1	2	1	1	1	2
NIVEL AGUA	3	3	3	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	1	1	1	1	1	1
TURB. AGUA	2	2	1	1	1	2	1	1	1	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARKEC.	B	B	B	B	B	B	B	B	B	A
VCL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	P11	811	811	811	91	91	181	91	271	2611
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB237 JL0388	IAB238 JL0389	IAB239 JL0390	IAB240 JL0391	IAB245 GG0284	IAB246 GG0288	IAB247 GG0249	IAB248 GG0295	IAB249 GG0300	IAB250 GG0290
PARAMETROS ANALITICOS										
FE-S %	7,000	7,000	2,000	5,000	2,000	2,000	0,700	2,000	3,000	3,000
MG-S %	0,500	0,200	0,300	0,500	0,050	0,200	0,070	0,150	0,070	0,500
CA-S %	0,150	0,150	0,500	0,500	-0,050	0,150	-0,050	-0,050	-0,050	0,100
TI-S %	+1,000	+1,000	0,300	1,000	0,300	1,000	0,200	0,300	0,700	0,500
MN-S	700,000	700,000	500,000	700,000	300,000	500,000	100,000	100,000	100,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	20,000	200,000	200,000	30,000	NAO DET.	150,000	50,000	100,000	200,000
BA-S	700,000	700,000	1500,000	1000,000	150,000	300,000	150,000	300,000	100,000	1500,000
BE-S	2,000	1,500	1,000	1,500	7,000	1,000	-1,000	1,000	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	5,000	10,000	-5,000	7,000	-5,000	-5,000	NAO DET.	7,000
CR-S	50,000	50,000	20,000	50,000	50,000	100,000	20,000	70,000	50,000	70,000
CU-S	30,000	70,000	10,000	30,000	10,000	5,000	5,000	20,000	10,000	-5,000
LA-S	50,000	-20,000	-20,000	-20,000	-20,000	-20,000	300,000	100,000	70,000	150,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	50,000	15,000	-10,000	10,000	15,000	15,000
NI-S	30,000	30,000	10,000	30,000	15,000	20,000	5,000	15,000	15,000	20,000
PB-S	30,000	30,000	30,000	20,000	30,000	20,000	20,000	20,000	30,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	10,000	5,000	10,000	5,000	5,000	5,000	10,000	10,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	20,000	-10,000	NAO DET.	NAO DET.	-10,000	NAO DET.
SR-S	200,000	300,000	700,000	500,000	NAO DET.	-100,000	NAO DET.	NAO DET.	NAO DET.	300,000
V-S	70,000	150,000	50,000	70,000	20,000	30,000	20,000	70,000	50,000	30,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	10,000	-10,000	10,000	50,000	15,000	100,000	200,000	700,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	300,000	700,000	300,000	200,000	+1000,000	300,000	1000,000	200,000	300,000	1000,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 67

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CCRRENTE - AREA TOTAL

NUM. LAB.	IAB251	IAB252	IAB259	IAB260	IAB261	IAB262	IAB263	IAB264	IAB265	IAB273
NUM. CAMPO	GG0292	GG0289	MVC432	MVO438	MVO440	MVO443	MVO465	MVO471	MVO477	JLO410
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO						310				
BASE CART.	SG23VAIV	SG23VAIV	SG23VAII	SG23VAIV	SG23VAIV	SG23VAIV	SG23VAII	SG23XBVI	SG22XBVI	SG23VAII
BASE CART.	3	3	11	2	2	2	4	4	4	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	01/74	01/72	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74
LATITUDE	25 00 00 S	25 00 00 S	24 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	25 00 00 S	25 00 00 S	24 15 00 S
LONGITUDE	48 00 00	48 00 00	47 00 00	47 45 00	47 45 00	47 45 00	47 15 00	48 15 00	48 15 00	47 30 00
ABCISSA - X	0135	0072	0038	0441	0028	0022	0008	0396	0327	0465
ORDENADA - Y	0353	0293	0415	0125	0140	0191	0393	0474	0495	0289
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	D	C	C	C	C	C	C	C
ID. GECLCG.	AX	AX	CS	AX	AX	AX	AX	AX	AX	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	C	C	C	C	B	A	C
TIPO VEGET.	B	A	C	C	C	C	C	A	A	C
SIT. TOPOG.	B	C	B	A	A	A	A	A	D	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	130	140	594			10	120	60	40	100
PRCF. AMOST.	0,40	0,20		0,50	0,10	0,20	0,30	0,20	0,20	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	2	1	2	2	1	1	2	2	2	3
PROFUND. RIO	0,4	0,2	0,4	1,0	0,2	0,3	0,5	0,2	0,2	0,5
VELOC. CORR.	2	1	2	1	2	3	3	2	2	3
NIVEL AGUA	2	2	2	3	2	3	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	2
TURB. AGUA	2	1	1	1	1	2	2	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	B	A	C	A	A	A	A	A	A
GRAU ARREC.	B	A	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	631	4312	91	82	91	721	19	28	82	721
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB251 GG0292	IAB252 GG0289	IAB259 MV0432	IAB260 MV0438	IAB261 MV0440	IAB262 MV0443	IAB263 MV0465	IAB264 MV0471	IAB265 MV0477	IAB273 JL0410
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	0,500	20,000	1,500	5,000	1,500	1,500	2,000
MG-S %	0,300	0,300	0,200	0,020	0,100	0,150	1,500	0,300	0,070	0,150
CA-S %	-0,050	0,070	-0,050	0,050	0,070	0,070	0,500	0,200	0,050	-0,050
TI-S %	0,300	1,000	0,300	0,200	1,000	0,300	0,300	0,700	1,000	0,300
MN-S	500,000	1500,000	200,000	100,000	500,000	200,000	500,000	200,000	200,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	20,000	20,000	10,000	150,000	150,000	NAO DET.	10,000	NAO DET.	100,000
BA-S	300,000	300,000	200,000	200,000	300,000	500,000	500,000	500,000	50,000	500,000
BE-S	1,000	1,500	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	5,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	5,000	-5,000	7,000	5,000	10,000	5,000	5,000	5,000
CR-S	100,000	100,000	70,000	-10,000	70,000	10,000	100,000	150,000	20,000	70,000
CU-S	20,000	30,000	15,000	-5,000	-5,000	-5,000	10,000	5,000	5,000	10,000
LA-S	20,000	20,000	70,000	-20,000	100,000	150,000	70,000	-20,000	-20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	-5,000	NAO DET.	NAO DET.	-5,000	NAO DET.
NB-S	10,000	10,000	10,000	-10,000	15,000	10,000	10,000	10,000	50,000	10,000
NI-S	30,000	20,000	15,000	5,000	5,000	5,000	20,000	30,000	10,000	15,000
PB-S	20,000	20,000	30,000	-10,000	20,000	30,000	30,000	15,000	30,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	10,000	10,000	NAO DET.	5,000	5,000	10,000	5,000	5,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	10,000	NAO DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	-100,000	-100,000	-100,000	200,000	150,000	NAO DET.	NAO DET.
V-S	50,000	100,000	50,000	10,000	30,000	20,000	50,000	30,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	15,000	70,000	NAO DET.	15,000	15,000	15,000	10,000	30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	300,000	100,000	+1000,000	300,000	150,000	300,000	300,000	300,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB274 JL0411	IAB275 JL0462	IAB277 JLC499	IAB278 JL0453	IAB279 JL0520	IAB280 JL0530	IAB281 JL0531	IAB285 J00410	IAB286 J00418	IAB287 J00420
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	5,000	5,000	1,000	1,500	2,000	3,000	3,000	7,000
MG-S %	0,500	0,300	0,300	0,300	0,200	0,200	0,150	1,000	0,700	0,500
CA-S %	0,050	0,050	0,070	0,050	0,150	0,050	-0,050	0,200	0,300	0,200
TI-S %	0,500	0,700	0,300	0,500	0,500	0,200	0,700	0,300	0,300	0,300
MN-S	500,000	700,000	300,000	500,000	200,000	200,000	300,000	1000,000	700,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	70,000	50,000	100,000	150,000	200,000	150,000	150,000	70,000	200,000	20,000
BA-S	500,000	300,000	1000,000	200,000	1000,000	300,000	200,000	1000,000	700,000	700,000
BE-S	1,000	1,000	-1,000	1,000	7,000	1,000	-1,000	2,000	2,000	2,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	7,000	5,000	7,000	-5,000	5,000	5,000	10,000	10,000	10,000
CR-S	100,000	100,000	50,000	70,000	10,000	20,000	30,000	70,000	30,000	70,000
CU-S	15,000	70,000	-5,000	10,000	-5,000	-5,000	10,000	20,000	5,000	7,000
LA-S	70,000	300,000	200,000	200,000	70,000	50,000	300,000	100,000	70,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	20,000	15,000	15,000	15,000	5,000	10,000	10,000	15,000	10,000	10,000
PB-S	15,000	30,000	50,000	20,000	30,000	30,000	20,000	30,000	20,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	15,000	10,000	10,000	10,000	5,000	5,000	5,000	10,000	10,000	5,000
SN-S	NAO DET.	-10,000	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	200,000	NAO DET.	300,000	NAC DET.	NAO DET.	300,000	300,000	200,000
V-S	50,000	30,000	30,000	50,000	15,000	30,000	20,000	50,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	30,000	50,000	30,000	70,000	15,000	15,000	300,000	30,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	300,000	300,000	+1000,000	300,000	+1000,000	300,000	500,000	300,000	1000,000	700,000

CPRM CACASTRO GEOQUIMICO 23.01.75 FLA. 71
 S. E. A. G. PROJETO - SUDELPA CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB288	IAB289	IAB290	IAB291	IAB292	IAB293	IAB294	IAB295	IAB296	IAB297
NUM. CAMP.	J00428	J00436	J00442	J00446	J00450	J00456	J00459	J00467	J00472	J00474
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTC										
BASE CART.	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12	SG23VA12
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00
ABCISSA - X	0302	0339	0275	0239	0149	0315	0385	0352	0212	0188
ORDENADA - Y	0402	0492	0493	0486	0471	0445	0509	0246	0323	0333
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	CI	CI	BX	BX	AI	CI	CI	DI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	B	B	B	C	B	C	C	C	C
TIPO VEGET.	A	A	A	A	B	A	A	A	A	A
SIT. TOPOG.	C	C	C	A	A	C	A	C	C	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	400	600	550	400	550	620	50	120	120	120
PROF. AMOST.	0,45	0,40	0,35	0,30	0,45	0,25	0,45	0,45	0,25	0,45
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA RIO	4	4	3	2	8	1	3	3	3	10
PROFUND. FIG	0,5	0,8	0,4	0,4	0,5	0,3	0,5	0,5	0,3	0,5
VELOC. CORR.	2	2	2	2	2	2	3	2	1	1
NIVEL AGUA	2	2	2	2	1	1	2	2	2	2
AREA DRENAG.	2	2	1	1	2	1	1	2	1	1
TURB. AGUA	1	1	1	1	1	1	2	1	1	1
POS. COLETA	E	C	C	C	C	C	C	C	E	C
COR AGUA	A	A	A	A	A	A	A	I	A	A
GRAU ARRED.	B	B	B	B	C	B	B	B	B	B
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	91	091	811	91	51	91	91	91	811	811
COR SEC./SL.										
MCFIZ. SOLC										
TIPO SOLO										
AMP. PINTICO										

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB288 JD0428	IAB289 JD0436	IAB290 JDC442	IAB291 JD0446	IAB292 JD0450	IAB293 JDC456	IAB294 JDC459	IAB295 JDC467	IAB296 JDC472	IAB297 JD0474
PARAMETROS ANALITICOS										
FE-S %	1,500	2,000	2,000	3,000	1,500	3,000	2,000	7,000	7,000	3,000
MG-S %	0,500	0,500	0,300	0,500	0,200	0,300	0,200	1,000	0,500	0,700
CA-S %	0,150	0,150	0,050	0,070	0,050	0,150	0,070	0,700	0,300	0,300
TI-S %	0,500	0,300	0,700	0,500	0,500	0,500	0,300	0,500	0,300	0,500
MN-S	700,000	500,000	1500,000	200,000	300,000	300,000	300,000	1000,000	700,000	700,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	100,000	200,000	30,000	150,000	300,000	NAC DET.	200,000	20,000	30,000	50,000
BA-S	1000,000	500,000	300,000	700,000	200,000	700,000	700,000	1000,000	500,000	500,000
BE-S	1,500	2,000	1,000	1,500	1,000	1,500	1,000	2,000	2,000	3,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CC-S	10,000	10,000	15,000	5,000	5,000	10,000	5,000	10,000	5,000	10,000
CR-S	20,000	50,000	70,000	20,000	20,000	20,000	20,000	70,000	70,000	30,000
CU-S	5,000	15,000	100,000	5,000	7,000	5,000	5,000	5,000	5,000	7,000
LA-S	30,000	70,000	30,000	50,000	30,000	50,000	20,000	50,000	50,000	50,000
MC-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	10,000	20,000	30,000	15,000	10,000	10,000	10,000	15,000	15,000	15,000
PB-S	30,000	20,000	30,000	50,000	15,000	30,000	30,000	30,000	30,000	20,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	5,000	10,000	10,000	5,000	5,000	10,000	5,000	10,000	10,000	10,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	300,000	100,000	NAC DET.	150,000	NAC DET.	150,000	200,000	500,000	200,000	300,000
V-S	30,000	50,000	70,000	70,000	30,000	50,000	30,000	70,000	70,000	50,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	10,000	20,000	20,000	-10,000	15,000	10,000	-10,000	10,000	15,000	30,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	300,000	500,000	200,000	300,000	100,000	500,000	500,000	700,000	1000,000	300,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB298	IAB299	IAB300	IAB301	IAB302	IAB303	IAB304	IAB305	IAB306	IAB307
NUM. CAMPO	JDC0476	JDC0487	JDC499	JDC517	JDC520	JDC522	JDC523	JDC533	JDC535	JDC535A
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTC										
BASE CART.	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74	01/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	48 00 00	48 00 00
ABCISSA - X	0143	0100	0043	0174	0314	0346	0177	0086	0468	0468
ORDENADA - Y	0317	0268	0362	0200	0100	0091	0379	0339	0471	0471
UTM - LAT.										
UTM - LENG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	AI	AI	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	C	C	C	C	C	C	C
TIPC VEGET.	A	A	B	C	A	A	A	B	B	B
SIT. TOPOG.	C	A	A	A	A	A	C	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	140	100		80		80	120	420	350	350
PROF. AMOST.	0,25	0,35	0,45	0,35	0,25	0,35	0,45	0,35	0,45	0,45
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEF. CCCOR.										
LARGURA RIO	2	2	5	2	1	3	5	3	5	7
PROFUND. RIO	0,3	0,4	0,5	0,4	0,3	0,4	0,5	0,4	0,5	0,5
VELCC. CORR.	1	1	2	2	2	1	2	2	2	2
NIVEL AGUA	2	1	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	2	2	1	2	1	1	2	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AREC.	B	C	C	B	B	B	B	B	B	B
VEL. CRIGIN.										
PESC COCC.										
GRANULOMET.										
TEXT. SEDIM.	910	811	811	811	811	721	910	811	811	811
COR SED./SL.										
HORIZ. SOLE										
TIPC SOLE										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB298 JD0476	IAB299 JD0487	IAB300 JD0495	IAB301 JD0517	IAB302 JD0520	IAB303 JD0522	IAB304 JD0523	IAB305 JD0533	IAB306 JD0535	IAB307 JD0535A
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	2,000	3,000	1,500	7,000	3,000	1,500	3,000	2,000
MG-S %	0,700	0,700	0,300	0,500	0,070	1,000	1,000	0,100	0,700	0,500
CA-S %	0,150	0,700	0,100	0,300	-0,050	0,700	1,000	0,050	1,000	0,700
TI-S %	0,500	0,500	0,300	0,500	0,300	0,500	0,500	0,300	0,200	0,300
MN-S	1000,000	700,000	300,000	500,000	200,000	500,000	700,000	200,000	300,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.
B-S	200,000	20,000	100,000	200,000	150,000	100,000	50,000	200,000	50,000	100,000
BA-S	500,000	300,000	300,000	700,000	100,000	500,000	700,000	200,000	1000,000	700,000
BE-S	5,000	7,000	1,000	3,000	7,000	2,000	3,000	1,000	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CG-S	10,000	10,000	5,000	5,000	5,000	10,000	5,000	5,000	10,000	7,000
CH-S	50,000	70,000	20,000	70,000	20,000	70,000	50,000	15,000	70,000	50,000
CU-S	20,000	5,000	10,000	5,000	7,000	10,000	5,000	5,000	5,000	5,000
LA-S	300,000	50,000	70,000	70,000	70,000	70,000	50,000	20,000	-20,000	-20,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	20,000	15,000	10,000	10,000	10,000	20,000	10,000	10,000	20,000	15,000
PB-S	50,000	20,000	30,000	30,000	10,000	20,000	30,000	10,000	30,000	30,000
SE-S	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	20,000	5,000	5,000	5,000	10,000	10,000	5,000	10,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	-100,000	300,000	100,000	300,000	NAO DET.	300,000	300,000	NAO DET.	300,000	300,000
V-S	30,000	50,000	30,000	50,000	30,000	70,000	70,000	30,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	300,000	10,000	15,000	10,000	20,000	30,000	20,000	-10,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	500,000	1000,000	300,000	+1000,000	500,000	+1000,000	300,000	200,000	300,000	300,000

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB308	IAB309	IAB310	IAB311	IAB312	IAB313	IAB352	IAB353	IAB354	IAB355
NUM. CAMPO	JC0537	JD0538	JDC539	JDC541	JDC544	JC0548	JR0153	JR0155	JRC156	JR0158
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO				310				310		
BASE CART.	SG23VA12	SG23VA12	SG23VA12	SG23VA14	SG23VA12	SG23VA12	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	01/74	01/74	01/74	01/74	01/74	01/74	02/74	03/74	02/74	02/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 30 00 S	24 15 00 S	24 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 00 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	45 00 00	49 00 00	49 00 00	49 00 00
ABCISSA - X	0490	0516	0007	0105	0073	0034	0343	0282	0321	0220
ORDENADA - Y	0458	0461	0460	0549	0019	0315	0506	0320	0204	0186
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	A	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	N	S	S	S
ID. GEOLG.	AI	AI	AI	AI	AI	AI	AS	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	C	C	C	B	B	B	B
TIPO VEGET.	B	B	B	A	A	B	B	C	A	A
SIT. TOPOG.	A	A	A	A	C	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	350	350	350	60	60	300	910	320	30	300
PROF. AMOST.	0,35	0,45	0,45	0,25	0,35	0,35	0,30	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCHR.										
LARGURA RIC	3	6	6	2	3	1	2	2	1	2
PROFUND. RIC	0,4	0,5	0,5	0,3	0,4	0,5	0,4	0,3	0,3	0,3
VELCC. CORR.	1	1	1	1	1	3	3	4	2	2
NIVEL AGUA	2	1	1	2	2	2	2	2	2	2
AREA DRENAG.	1	2	2	1	2	2	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PDS. COLETA	C	E	C	C	C	C	C	C	C	C
CON. AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ABRED.	B	C	B	B	B	B	B	C	C	C
VEL. CHGIN.										
PESC. COCH.										
GRANULOMET.										
TEXT. SEDIM.	721	811	811	811	811	811	61 21	7 21	712	811
CON. SEC./SL.										
FORM. SOLO										
TIPO SOLO										
AMB. BILITIC										

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB308 JD0537	IAB309 JD0538	IAB310 JD0539	IAB311 JD0541	IAB312 JD0544	IAB313 JD0548	IAB352 JR0153	IAB353 JR0155	IAB354 JR0156	IAB355 JP0158
PARAMETROS ANALITICOS										
FE-S	3,000	3,000	3,000	2,000	3,000	3,000	2,000	1,500	1,000	2,000
MG-S	0,500	0,700	0,700	0,200	0,300	1,500	0,200	0,300	0,300	0,300
CA-S	2,000	1,000	0,300	0,050	0,050	1,500	0,050	0,700	0,700	0,500
TI-S	0,500	0,500	0,300	1,000	1,000	0,700	0,300	0,300	0,200	0,700
MN-S	500,000	700,000	500,000	500,000	500,000	700,000	200,000	200,000	200,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	30,000	100,000	100,000	50,000	200,000	150,000	700,000	-10,000	-10,000	20,000
BA-S	1000,000	1000,000	1000,000	500,000	300,000	2000,000	150,000	1500,000	1500,000	1000,000
BE-S	1,500	1,000	1,500	1,000	1,000	1,000	1,000	1,000	1,000	10,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	-5,000	5,000	5,000	5,000	5,000	5,000	5,000	-5,000	-5,000	-5,000
CR-S	50,000	70,000	50,000	70,000	70,000	70,000	20,000	20,000	10,000	20,000
CU-S	5,000	5,000	5,000	10,000	7,000	7,000	15,000	5,000	5,000	5,000
LA-S	20,000	20,000	50,000	70,000	100,000	50,000	30,000	50,000	20,000	70,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-5,000	NAO DET.	NAO DET.	NAC DET.
NE-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-10,000	10,000
NI-S	10,000	15,000	15,000	15,000	15,000	20,000	15,000	5,000	-5,000	5,000
PB-S	30,000	30,000	30,000	20,000	20,000	50,000	20,000	20,000	30,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	10,000	5,000	10,000	10,000	15,000	5,000	5,000	5,000	5,000
SN-S	NAC DET.	NAO DET.	20,000	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	700,000	700,000	300,000	NAO DET.	NAO DET.	700,000	-100,000	700,000	700,000	300,000
V-S	70,000	50,000	50,000	70,000	70,000	70,000	30,000	30,000	20,000	30,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	10,000	10,000	30,000	20,000	70,000	10,000	10,000	-10,000	-10,000	10,000
ZN-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	+1000,000	200,000	500,000	300,000	700,000	500,000	150,000	150,000	70,000	300,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 77

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB356	IAB357	IAB358	IAB359	IAB360	IAB361	IAB362	IAB363	IAB364	IAB365
NUM. CAMPO	JR0159	JR0160	JR0162	JR0167	JR0168	JR0173	JR0174	JR0175	JR0176	JR0177
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO		310								
BASE CART.	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00
ABCISSA - X	0266	0256	0258	0134	0129	0351	0359	0349	0371	0391
ORDENADA - Y	0196	0312	0263	0217	0217	0294	0341	0351	0224	0205
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLG.	CI	CI	CI	CI	CI	CI	CI	CI	CI	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	A	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	310	305	290	380	380	310	400	390	280	260
PROF. AMOST.	0,30	0,10	0,20	0,20	0,20	0,10	0,10	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	2	2	1	2	2	1	3	1	2	2
PROFUND. RIO	0,4	0,2	0,5	0,3	0,3	0,2	0,2	0,2	0,2	0,2
VELCC. CORR.	2	3	1	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	C	A	A	A	A	A	A	A
GRAU ARRED.	C	C	C	C	R	C	C	C	D	C
VCL. ORIGIN.										
PESC. CENC.										
GRANULOMIT.										
TEXT. SEDIM.	712	712	4141	2412	2411	712	2611	811	1711	1711
CCR. SEC./SL.										
HORIZ. SOLC										
TIPO SOLC										
AMB. FICTICC										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB356 JRO159	IAB357 JRO160	IAB358 JRO162	IAB359 JRO167	IAB360 JRO168	IAB361 JRO173	IAB362 JRO174	IAB363 JRO175	IAB364 JRO176	IAB365 JRO177
PARAMETROS ANALITICOS										
FE-S %	1,500	3,000	3,000	2,000	1,500	15,000	1,000	2,000	5,000	1,000
MG-S %	0,500	0,700	1,000	0,300	0,200	0,300	0,200	0,300	0,500	0,300
CA-S %	1,000	1,000	1,500	0,300	0,200	0,500	0,500	0,500	0,700	0,500
TI-S %	0,200	0,300	0,700	0,300	0,300	0,500	0,150	0,300	0,500	0,300
MN-S	300,000	300,000	500,000	150,000	150,000	200,000	150,000	150,000	200,000	200,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	NAC DET.	-10,000	10,000	10,000	20,000	NAC DET.	-10,000	-10,000	20,000	-10,000
BA-S	1500,000	500,000	700,000	2000,000	1000,000	300,000	1500,000	1000,000	1000,000	2000,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	-5,000	5,000	7,000	-5,000	-5,000	15,000	NAC DET.	5,000	7,000	NAC DET.
CR-S	15,000	50,000	50,000	50,000	30,000	300,000	10,000	50,000	70,000	20,000
CU-S	5,000	5,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000
LA-S	20,000	50,000	70,000	20,000	30,000	50,000	30,000	50,000	50,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	-10,000	10,000	10,000	10,000	10,000	15,000	-10,000	10,000	10,000	10,000
NI-S	-5,000	10,000	10,000	10,000	5,000	50,000	NAO DET.	5,000	10,000	-5,000
PB-S	30,000	30,000	20,000	30,000	30,000	10,000	30,000	20,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	5,000	5,000	10,000	5,000	-5,000	7,000	-5,000	5,000	7,000	-5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SR-S	500,000	500,000	700,000	500,000	300,000	300,000	500,000	500,000	500,000	700,000
V-S	20,000	30,000	30,000	20,000	20,000	150,000	20,000	30,000	50,000	20,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	-10,000	10,000	15,000	-10,000	-10,000	10,000	-10,000	-10,000	-10,000	-10,000
ZN-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	150,000	200,000	300,000	150,000	100,000	300,000	100,000	150,000	300,000	100,000

CPRM CALASTRO GEOQUIMICO

23.01.75 FLA. 79

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB366	IAB367	IAB368	IAB369	IAB370	IAB371	IAB372	IAB373	IAB374	IAB375
NUM. CAMPO	JR0179	JR0182	JRC183	JR0196	JK0198	JR0203	JR0213	JRC216	JRC218	JR0219
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO										
BASE CART.	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0452	0435	0462	0478	0211	0057	0386	0415	0350	0397
ORDENADA - Y	0249	0248	0242	0169	0280	0180	0214	0073	0353	0392
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	N	S	C	N	N	Q	Q
ID. GEOLÓG.	CI	CI	CI	AS	CI	AS	AS	AI	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	B	A	A	B	B	B	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	310	400	400	310	350	280	300		220	230
PROF. AMOST.	0,40	0,20	0,20	0,20	0,20	0,20	0,20	0,10	0,30	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCC.										
LARGURA RIO	3	2	2	3	4	1	2	1	2	3
PROFUND. RIO	0,5	0,4	0,3	0,4	0,4	0,3	0,4	0,2	0,5	0,5
VELOC. CORR.	4	3	4	4	3	2	3	3	3	4
NIVEL AGUA	2	2	2	2	2	2	3	2	2	3
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	E	C	C	C	C	C	C
COR AGUA	A	A	G	A	A	D	A	A	A	G
GRAU ARRED.	C	C	B	A	C	C	B	B	B	B
VCL. ORIGIN.										
PESC. CONC.										
GRANULOMET.										
TEXT. SEDIM.	111	1711	131	111	131	172	6112	41221	11161	3223
COR. SED./SL.										
HEFIZ. SOLIC.										
TIPO SCLC										
AMB. LITOLÓG.										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB366 JP0179	IAB367 JR0182	IAB368 JFC183	IAB369 JP0196	IAB370 JF0198	IAB371 JR0203	IAB372 JR0213	IAB373 JR0216	IAB374 JFC218	IAB375 JR0219
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	2,000	3,000	1,500	2,000	5,000	2,000	3,000	7,000
MG-S %	0,500	0,300	0,300	0,200	0,300	0,200	0,500	0,300	0,300	0,500
CA-S %	0,200	0,300	0,200	0,070	0,700	0,100	0,100	0,050	0,070	0,070
TI-S %	1,000	0,300	1,000	+1,000	0,200	0,700	1,000	0,300	0,500	0,500
MN-S	500,000	150,000	500,000	500,000	200,000	700,000	700,000	150,000	700,000	+5000,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	100,000	-10,000	100,000	100,000	20,000	100,000	200,000	150,000	20,000	50,000
BA-S	300,000	2000,000	200,000	150,000	1500,000	150,000	200,000	200,000	200,000	700,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
CC-S	10,000	5,000	10,000	10,000	-5,000	-5,000	15,000	-5,000	-5,000	50,000
CF-S	30,000	20,000	30,000	30,000	30,000	20,000	50,000	30,000	30,000	100,000
CU-S	15,000	5,000	10,000	20,000	5,000	30,000	50,000	15,000	50,000	100,000
LA-S	20,000	50,000	30,000	20,000	50,000	30,000	50,000	20,000	20,000	50,000
MG-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	-5,000
NB-S	15,000	-10,000	10,000	20,000	-10,000	10,000	10,000	10,000	10,000	10,000
NI-S	15,000	5,000	10,000	15,000	15,000	10,000	30,000	10,000	15,000	50,000
PB-S	15,000	30,000	20,000	10,000	30,000	-10,000	20,000	10,000	20,000	50,000
SB-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	7,000	-5,000	7,000	7,000	-5,000	5,000	10,000	7,000	7,000	15,000
SN-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	150,000	300,000	150,000	NAD DET.	500,000	-100,000	NAD DET.	NAD DET.	NAC DET.	NAC DET.
V-S	30,000	30,000	30,000	20,000	30,000	50,000	100,000	50,000	70,000	100,000
W-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	10,000	-10,000	10,000	15,000	10,000	10,000	15,000	10,000	10,000	20,000
ZN-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
ZR-S	150,000	100,000	200,000	150,000	200,000	100,000	150,000	100,000	100,000	200,000

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB376	IAB377	IAB378	IAB379	IAB380	IAB381	IAB382	IAB383	IAB384	IAB385
NUM. CAMPE	JF0223	JR0225	JR0226	JR0227	JR0228	JR0231	JR0232	JP0235	JR0236	JR0237
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO								310	310	
BASE CART.	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XB11	SG22XB11	SG22XBV2
BASE CART.								4	4	
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 45 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0354	0355	0319	0321	0325	0334	0325	0372	0380	0377
ORDENADA - Y	0190	0147	0377	0386	0427	0467	0491	0019	0015	0535
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	A	B	B	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	Q	C	Q	Q	Q	Q	Q	Q	Q
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	B	D	B	D	C	D	C	C	B
TIFL. VEGET.	B	C	A	B	A	A	A	B	B	B
SIT. TOPOG.	A	A	A	A	A	C	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	300	290	220	230	220	290	290	300	300	290
PROF. AMOST.	0,10	0,20	0,10	0,20	0,10	0,10	0,10	0,40	0,30	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PFC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCH.										
LARGURA RIO	2	2	2	1	3	3	2	3	4	2
PROFUND. RIO	0,3	0,3	0,3	0,4	0,4	0,4	0,4	0,8	0,7	0,2
VELCC. CORR.	3	3	3	1	3	3	3	3	3	3
NIVEL AGUA	3	2	2	2	3	3	3	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	E	C	F	E	E	E	E	E
CCR AGUA	G	D	G	D	A	A	D	D	D	A
GRAU ABRED.	B	C	B	D	B	B	B	D	D	B
VCL. ORIGIA.										
PESC. COND.										
GRANULOMET.										
TEXT. SEDIM.	6112	7111	6121	1171	9 1	9 1	8 11	7111	6 11	7111
COEF. SED./SL.										
HORIZ. SULO										
TIPO SOLO										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB376 JR0223	IAB377 JR0225	IAB378 JR0226	IAB379 JR0227	IAB380 JR0228	IAB381 JR0231	IAB382 JR0232	IAB383 JR0235	IAB384 JR0236	IAB385 JR0237
PARAMETROS ANALITICOS										
FE-S 2	10,000	7,000	5,000	5,000	7,000	7,000	5,000	7,000	5,000	7,000
HG-S 2	1,000	1,000	0,200	0,500	0,700	0,700	0,150	0,700	0,500	0,300
CA-S 2	0,070	0,300	0,050	0,070	0,050	-0,050	0,100	0,150	0,070	0,050
TI-S 2	1,000	1,000	0,700	0,700	0,700	0,700	1,000	1,000	0,700	0,700
MN-S	+5000,000	1500,000	700,000	300,000	1500,000	1500,000	1000,000	1000,000	700,000	700,000
AG-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
AS-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
U-S	50,000	70,000	150,000	100,000	100,000	150,000	150,000	70,000	70,000	100,000
BA-S	700,000	300,000	300,000	300,000	500,000	300,000	300,000	300,000	300,000	500,000
BE-S	2,000	1,000	1,000	3,000	3,000	2,000	1,000	2,000	2,000	15,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.
CD-S	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CG-S	30,000	30,000	7,000	10,000	15,000	30,000	20,000	20,000	10,000	15,000
CR-S	150,000	150,000	150,000	100,000	150,000	150,000	100,000	150,000	70,000	100,000
CU-S	100,000	150,000	20,000	30,000	50,000	70,000	50,000	70,000	20,000	50,000
LA-S	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
MG-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	50,000	70,000	20,000	50,000	70,000	70,000	30,000	70,000	50,000	50,000
PB-S	50,000	20,000	30,000	30,000	50,000	50,000	30,000	150,000	20,000	20,000
SE-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	20,000	30,000	10,000	15,000	20,000	15,000	15,000	15,000	15,000	15,000
SN-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SR-S	NAD DET.	-100,000	-100,000	-100,000	100,000	100,000	-100,000	NAD DET.	NAC DET.	-100,000
V-S	100,000	150,000	70,000	70,000	100,000	100,000	70,000	100,000	100,000	70,000
W-S	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
ZN-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
ZR-S	150,000	150,000	200,000	300,000	300,000	200,000	300,000	300,000	200,000	150,000

C.P. 35

CPRM CALASTRO GEOQUIMICO

23.01.75

FLA. 83

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB386	IAB387	IAB388	IAB389	IAB390	IAB391	IAB392	IAB393	IAB394	IAB395
NUM. CAMPO	JL0548	JL0574	JLC583	JLC584	MV0486	MV0506	MV0507	MV0525	JDC571	JDC580
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO										
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAVI	SG23VAIV	SG23VAIV	SG23VAVI	SG22XBVI	SG22XBVI
BASE CART.	1	1	1	1		2	2		2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 15 00	47 30 00	47 30 00	47 30 00	47 30 00	47 45 00	47 45 00	47 30 00	48 15 00	48 15 00
ABCISSA - X	0249	0231	0081	0080	0124	0260	0057	0429	0353	0196
ORDENADA - Y	0020	0444	0403	0473	0194	0282	0169	0496	0031	0046
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REL.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	AX	AX	AX	AX	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIUSILAGE	B	D	D	C	A	A	A	A	B	B
TIPO VEGET.	A	C	B	C	B	B	B	B	A	A
SIT. TOPOG.	A	A	B	A	A	B	B	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	120	150	150	150	40	30	40	15	130	50
PROF. AMOST.	0,40	0,40		0,40	0,10	0,30	0,40	0,50	0,35	0,45
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PEC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIC	3	3	5	1	1	2	2	2	2	6
PROFUND. RIC	0,6	0,5	0,8	0,9	0,1	0,3	0,5	0,5	0,4	0,5
VELCC. CORR.	1	3	2	2	3	3	3	3	2	2
NIVEL AGUA	2	2	2	2	0	2	2	2	1	2
AREA DRENAG.	1	2	2	2	1	1	1	1	1	1
TUPB. AGUA	1	2	2	1	2	2	2	3	1	1
PDS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	I	A
GRAU ARREC.	B	B	B	C	B	B	B	B	B	C
VCL. ORIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SCLIM.	0721	721	721	721	253	271	361	271	91	91
COR SEC. / JL.										
HORIZ. SOLC										
TIPO SOLO										
AMP. HORTICL										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB386 JL0548	IAB387 JL0574	IAB388 JL0583	IAB389 JL0584	IAB390 MV0496	IAB391 MV0506	IAB392 MV0507	IAB393 MV0525	IAB394 JD0571	IAB395 JD0580
PARAMETROS ANALITICOS										
FE-S %	5,000	2,000	2,000	3,000	1,000	5,000	7,000	5,000	2,000	3,000
MG-S %	0,700	1,000	0,500	0,700	0,200	0,700	1,500	0,700	0,200	0,700
CA-S %	0,100	0,070	0,070	0,100	0,150	0,300	2,000	0,050	0,070	0,200
TI-S %	0,500	0,500	1,000	0,700	0,300	1,000	+1,000	0,700	0,300	1,000
MN-S	1500,000	300,000	300,000	300,000	150,000	1000,000	1000,000	200,000	500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	150,000	2000,000	1000,000	300,000	-10,000	-10,000	-10,000	100,000	150,000	700,000
BA-S	500,000	1000,000	1000,000	700,000	1000,000	150,000	700,000	700,000	300,000	300,000
BE-S	1,000	10,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	10,000	5,000	5,000	7,000	-5,000	5,000	30,000	10,000	5,000	10,000
CR-S	100,000	30,000	70,000	70,000	20,000	100,000	300,000	100,000	70,000	700,000
CU-S	20,000	50,000	10,000	20,000	-5,000	15,000	100,000	50,000	30,000	20,000
LA-S	30,000	70,000	70,000	50,000	500,000	70,000	50,000	50,000	20,000	50,000
MD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000	10,000	70,000	10,000	10,000	10,000	10,000
NI-S	50,000	15,000	20,000	30,000	10,000	50,000	100,000	30,000	15,000	50,000
PB-S	20,000	50,000	30,000	30,000	70,000	20,000	20,000	30,000	10,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	10,000	10,000	15,000	5,000	5,000	20,000	20,000	10,000	5,000
SN-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	-100,000	-100,000	100,000	-100,000	100,000	100,000	500,000	NAO DET.	NAO DET.	NAC DET.
V-S	70,000	30,000	50,000	70,000	30,000	50,000	200,000	70,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	20,000	150,000	150,000	20,000	70,000	20,000	20,000	150,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	150,000	+1000,000	+1000,000	300,000	300,000	+1000,000	300,000	300,000	100,000	300,000

CPRM CACASTRO GECQUIMICO 23.01.75 FLA. 85
 S E A G PROJETO - SUDELPA CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB396	IAB397	IAB398	IAB399	IAB400	IAB401	IAB402	IAB404	IAB405	IAB406
NUM. CAMPO	JD0627	JD0635	JDC658	JD0667	JD0673	GG0306	GG0317	GG0319	GG0324	GG0331
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTC										
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG23VAII	SG23VAIV	SG23VAIV	SG23VAII	SG23VAIV
BASE CART.	2	2	2	2	2	2	3	3	2	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	01/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 15 00 S	25 00 00 S	25 00 00 S	24 15 00 S	25 00 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	47 15 00	48 00 00	48 00 00	47 15 00	48 00 00
ABCISSA - X	0200	0410	0075	0093	0142	0192	0256	0312	0083	0322
ORDENADA - Y	0410	0455	0341	0328	0206	0500	0302	0448	0392	0400
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	LS	AX	CS	CS	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICISIADE	A	B	A	A	A	B	A	A	A	A
TIPO VEGET.	A	A	A	A	A	C	C	C	B	B
SIT. TPCG.	A	A	A	B	A	B	A	A	B	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	130	140	70	80	100	700	160	160	450	450
PRCF. AMOST.	0,35	0,40		0,35	0,45	0,50	0,30	0,50	0,50	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTMP.										
TIPC ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIO	3	3	4	2	4	2	2	3	3	2
PRCFUNC. RIO	0,4	0,5	0,5	0,4	0,5	0,5	0,3	0,5	0,5	0,2
VELCC. CORR.	1	2	1	2	1	2	1	2	4	2
NIVEL AGUA	1	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	2	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	2	3	2
POS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	D	A	A	I	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VEL. ORIGIN.										
PESQ CCNC.										
GRANULMET.										
TEXT. SEDIM.	0811	811	811	811	91	6211	181	271	181	181
CCR SEC./SL.										
HORIZ. SCLC										
TIPC SCLC										
AME. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB396 JDC627	IAB397 JDC635	IAB398 JDC658	IAB399 JDC667	IAB400 JDC673	IAB401 GG0306	IAB402 GG0317	IAB404 GG0319	IAB405 GG0324	IAB406 GG0331
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	2,000	1,500	3,000	2,000	2,000	2,000	3,000	5,000
MG-S %	1,000	0,500	1,000	0,700	1,500	0,500	0,150	0,200	0,200	0,500
CA-S %	0,300	0,150	0,500	0,500	1,000	0,100	0,070	0,070	0,070	0,070
TI-S %	1,000	+1,000	0,150	0,200	0,500	0,300	0,200	+1,000	0,500	0,500
MN-S	2000,000	1500,000	100,000	100,000	700,000	500,000	500,000	1500,000	1000,000	2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	100,000	100,000	30,000	30,000	200,000	500,000	50,000	70,000	500,000	20,000
BA-S	700,000	300,000	1000,000	1500,000	1000,000	500,000	200,000	200,000	150,000	300,000
BE-S	2,000	1,000	1,000	1,000	1,000	1,500	3,000	2,000	1,000	1,500
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	10,000	5,000	5,000	7,000	5,000	5,000	7,000	7,000	10,000
CR-S	150,000	100,000	50,000	700,000	500,000	50,000	50,000	100,000	50,000	100,000
CU-S	30,000	30,000	7,000	20,000	20,000	5,000	5,000	10,000	10,000	20,000
LA-S	70,000	200,000	50,000	70,000	100,000	50,000	100,000	100,000	70,000	100,000
MC-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	-10,000	10,000	10,000	15,000	20,000	10,000	10,000
NI-S	50,000	30,000	15,000	15,000	20,000	15,000	10,000	15,000	15,000	20,000
PB-S	30,000	30,000	50,000	50,000	30,000	50,000	70,000	30,000	30,000	30,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	5,000	5,000	5,000	10,000	10,000	5,000	10,000	5,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	10,000	50,000	100,000	NAC DET.	NAO DET.
SR-S	150,000	-100,000	200,000	200,000	150,000	-100,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.
V-S	70,000	100,000	50,000	50,000	50,000	50,000	30,000	30,000	50,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	70,000	10,000	20,000	70,000	20,000	70,000	50,000	70,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	100,000	100,000	300,000	300,000	1000,000	1000,000	500,000	200,000

CPRM CALASTR0 GEOQUIMICO

23.01.75

FLA. 87

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB407	IAB408	IAB409	IAB410	IAB411	IAB412	IAB413	IAB414	IAB415	IAB416
NUM. CAMPO	GG0338	GG0342	IPC393	IP0394	IP0395	IP0396	IP0399	IP0400	IP0401	IP0402
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTE	310	310								
BASE CART.	SG23VAII	SG23VAII	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	2	2								
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 15 00 S	24 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	47 15 00	47 15 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00
ABCISSA - X	0177	0115	0192	0168	0161	0054	0111	0129	0135	0123
ORDENADA - Y	0338	0283	0462	0444	0422	0384	0467	0496	0494	0397
UTM - LAT.										
UTM - LONG.										
MEF. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	A	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	K	S	S	S	S	S	S	S
ID. CICLOS.	AX	AX	AS	CI	CI	CI	CI	CI	AS	CI
MAT. COLET.	ALUV	ALUV	ALLV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	B	B	B	B	B	B	B	B
TIPO VEGET.	B	C	A	A	A	A	A	A	A	A
SIT. TOPOG.	B	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	380	280	580	580	580	420	560	620	560	560
PROF. AMOST.	0,50	0,50	0,15	0,20	0,25	0,45	0,35	0,25	0,25	0,25
FORMA ICNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCOR.										
LARGURA RIO	8	1	1	1	1	1	1	3	3	1
PROFUND. RIO	0,5	0,5	0,1	0,2	0,2	0,4	0,3	0,2	0,2	0,2
VELOC. CORR.	4	2	2	3	3	3	3	2	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	3	1	2	2	2	2	2	2	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	D	A	A	A	A
GRAU ARRED.	B	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. S/DIM.	29	181	6121	6121	6112	6211	6121	6121	6121	6211
COR SEC./CL.										
HORIZ. SOLO										
TIPO SOLO										
AMP. QUANTICO										

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB407 GG0338	IAB408 GG0342	IAB409 IPC353	IAB410 IP0394	IAB411 IP0395	IAB412 IP0396	IAB413 IP0399	IAB414 IP0400	IAB415 IP0401	IAB416 IP0402
PARAMETROS ANALITICOS										
FE-S %	5,000	7,000	7,000	3,000	10,000	10,000	7,000	5,000	5,000	5,000
MG-S %	0,700	0,500	1,000	0,500	1,000	1,000	1,500	0,700	1,000	1,500
CA-S %	0,070	0,050	0,150	0,300	0,500	2,000	1,500	0,700	1,500	1,500
TI-S %	0,500	+1,000	1,000	1,000	1,000	0,500	1,000	0,700	1,000	0,700
MN-S	1000,000	1500,000	5000,000	1000,000	5000,000	1000,000	1000,000	3000,000	2000,000	2000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	150,000	100,000	10,000	100,000	10,000	50,000	10,000	20,000	-10,000
BA-S	300,000	300,000	1000,000	2000,000	700,000	2000,000	1500,000	2000,000	2000,000	2000,000
BE-S	2,000	2,000	2,000	1,000	1,500	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CC-S	7,000	10,000	15,000	5,000	15,000	7,000	10,000	10,000	10,000	10,000
CR-S	100,000	150,000	100,000	70,000	70,000	150,000	150,000	50,000	100,000	100,000
CU-S	20,000	50,000	50,000	20,000	10,000	5,000	10,000	10,000	20,000	10,000
LA-S	200,000	+1000,000	70,000	50,000	70,000	100,000	100,000	70,000	50,000	100,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	20,000	15,000	50,000	10,000	15,000	10,000	10,000	10,000
NI-S	20,000	20,000	20,000	10,000	15,000	15,000	15,000	15,000	15,000	15,000
PB-S	30,000	70,000	50,000	30,000	30,000	30,000	30,000	50,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	20,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000
SN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	-100,000	200,000	100,000	1000,000	500,000	500,000	500,000	700,000
V-S	70,000	70,000	70,000	50,000	70,000	100,000	70,000	70,000	70,000	70,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	50,000	500,000	30,000	10,000	20,000	10,000	20,000	15,000	15,000	15,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	500,000	300,000	500,000	500,000	1000,000	1000,000	500,000	500,000	500,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 89

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB417	IAB418	IAB419	IAB420	IAB421	IAB422	IAB423	IAB424	IAB425	IAB426
NUM. CAMPO	IP0403	IP0404	IPC406	IPC407	IP0408	IP0411	IP0435	IP0438	IP0441	IP0442
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTC	310									
BASE CART.	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1	SG22XBV1
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00	49 00 00
AECISSA - X	0103	0079	0017	0026	0020	0206	0419	0443	0389	0240
ORDENADA - Y	0351	0324	0404	0403	0294	0364	0499	0510	0494	0488
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLG.	CI	CI	CI	CI	CI	AS	AS	JX	JX	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	560	500	480	570	220	190	790	850	890	700
PRCF. AMOST.	0,25	0,15	0,25	0,35	0,15	0,35	0,40	0,35	0,35	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTERR.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	1	1	1	2	1	3	2	1	1	2
PRCFUND. RIO	0,2	0,1	0,2	0,3	0,1	0,3	0,3	0,3	0,3	0,3
VELCC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	2	2	2	2	2	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ABREC.	B	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESC. COCCO.										
GRANULOMET.										
TEXT. SEDIM.	6121	6211	6211	6121	7111	6211	4321	15121	25111	16111
COR. SEC./SL.										
HORIZ. SOLL.										
TIPO SOLL.										
AMB. BIOTICO										

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB417 IP0403	IAB418 IP0404	IAB419 IPC406	IAB420 IPC407	IAB421 IP0408	IAB422 IP0411	IAB423 IP0435	IAB424 IPC438	IAB425 IPC441	IAB426 IP0442
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	5,000	3,000	3,000	7,000	10,000	10,000	5,000
MG-S %	1,000	1,000	1,000	0,700	1,000	0,500	1,000	0,700	0,500	0,500
CA-S %	0,500	0,300	1,500	1,500	1,500	0,300	1,000	1,000	0,200	0,300
TI-S %	0,500	0,700	0,500	1,300	0,700	0,700	+1,000	+1,000	0,700	0,500
MN-S	5000,000	2000,000	700,000	700,000	1500,000	1000,000	1500,000	2000,000	1500,000	1500,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	50,000	50,000	NAD DET.	-10,000	NAC DET.	100,000	20,000	50,000	100,000	150,000
BA-S	1000,000	1000,000	5000,000	3000,000	1500,000	1000,000	200,000	200,000	200,000	1000,000
BE-S	1,000	1,000	-1,000	-1,000	1,000	1,000	-1,000	-1,000	1,000	2,000
BI-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	15,000
CD-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CG-S	10,000	7,000	7,000	5,000	10,000	10,000	20,000	70,000	70,000	15,000
CR-S	100,000	100,000	50,000	100,000	70,000	100,000	100,000	100,000	200,000	100,000
CU-S	10,000	10,000	10,000	5,000	20,000	20,000	200,000	200,000	100,000	30,000
LA-S	50,000	50,000	70,000	70,000	70,000	50,000	20,000	20,000	20,000	70,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	15,000	15,000	10,000	10,000	10,000	10,000	-10,000	-10,000	10,000	10,000
NI-S	15,000	15,000	15,000	15,000	15,000	30,000	70,000	70,000	70,000	20,000
PB-S	30,000	50,000	30,000	30,000	70,000	50,000	10,000	30,000	50,000	150,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	10,000	5,000	5,000	5,000	5,000	15,000	15,000	30,000	30,000	20,000
SN-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SR-S	200,000	200,000	1000,000	1000,000	1000,000	200,000	NAD DET.	NAD DET.	NAD DET.	100,000
V-S	70,000	70,000	50,000	70,000	70,000	70,000	300,000	300,000	200,000	70,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	20,000	15,000	10,000	15,000	10,000	30,000	10,000	20,000	15,000	50,000
ZN-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	500,000	300,000	300,000	300,000	150,000	200,000	100,000	100,000	100,000	300,000

CPRM CACASTRO GEOQUIMICO

23.01.75 FLA. 91

S E A C

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB427	IAB428	IAB429	IAB430	IAB431	IAB432	IAB433	IAB434	IAB435	IAB436
NUM. CAMPO	IP0464	IP0473	IPC474	IP0476	IP0477	IP0480	IP0481	IPC492	IP0403A	IP0407A
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310							310		
BASE CART.	SG22XBV1	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV1	SG22XBV2	SG22XBV2
BASE CART.										
BASE CART.										
ESCALA	0050	-0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74	02/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	49 00 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	49 00 00	48 45 00	48 45 00
ABSCISSA - X	0439	0100	0171	0173	0128	0048	0096	0495	0103	0026
ORDENADA - Y	0457	0478	0398	0429	0443	0517	0498	0437	0351	0403
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FNTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	K	K	C	C	K	K	K	K	C	S
TIPO GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	A	C	C	C	C	C	C	C
ALTITUDE	540	150	100	120	190	510	250	590	560	570
PROF. AMOST.	0,25	0,25	0,40	0,50	0,25	0,25	0,40	0,30	0,25	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTERP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA FID	1	3	2	2	1	3	4	1	1	2
PROFUND. FID	0,2	0,2	0,6	0,7	0,2	0,2	0,4	0,2	0,2	0,3
VELCC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	2	2	2	2	0	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	C	A	A	B	A	A
GRAU ARREF.	B	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PFSC CONC.										
GRANULOMET.										
TEXT. SEL. 14.	3212	6121	15121	131	1131	15121	15211	34111	6121	6121
CON. SEL. 7SL.										
HORIZ. SCL.										
TIPO SCL.										
AMP. BILHETE										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB427 IP0464	IAB428 IP0473	IAB429 IP0474	IAB430 IPC476	IAB431 IP0477	IAB432 IP0480	IAB433 IP0481	IAB434 IP0492	IAB435 IP0403A	IAB436 IP0407A
PARAMETROS ANALITICOS										
FE-S 2	5,000	10,000	7,000	7,000	3,000	5,000	7,000	5,000	+20,000	+20,000
MG-S 2	1,000	0,700	0,700	0,500	0,200	1,000	0,200	0,500	0,050	0,100
CA-S 2	0,200	0,700	0,300	0,200	0,100	1,000	0,150	-0,050	0,200	1,000
TI-S 2	1,000	1,000	+1,000	+1,000	1,000	+1,000	0,500	0,500	1,000	0,300
MN-S	1500,000	2000,000	1000,000	700,000	1500,000	1500,000	3000,000	200,000	5000,000	200,000
AG-S	NAO DET.	70,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	3000,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	200,000	200,000	150,000	150,000	50,000	150,000	100,000	NAO DET.	NAO DET.
BA-S	700,000	300,000	300,000	300,000	500,000	300,000	500,000	1000,000	100,000	150,000
BE-S	2,000	1,000	1,000	1,000	1,000	-1,000	1,000	1,000	NAO DET.	NAO DET.
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	20,000	10,000	15,000	20,000	15,000	20,000	50,000	5,000	50,000	50,000
CR-S	100,000	100,000	100,000	100,000	100,000	70,000	100,000	100,000	1500,000	2000,000
CU-S	70,000	200,000	70,000	70,000	50,000	100,000	70,000	20,000	5,000	5,000
LA-S	50,000	70,000	30,000	50,000	20,000	20,000	30,000	50,000	70,000	100,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	15,000	10,000	15,000	15,000	10,000	10,000	10,000	20,000	-10,000
NI-S	50,000	20,000	30,000	50,000	30,000	50,000	50,000	20,000	70,000	100,000
PB-S	30,000	+20000,000	150,000	70,000	70,000	10,000	100,000	30,000	15,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	10,000	10,000	10,000	10,000	20,000	10,000	10,000	10,000	10,000
SN-S	NAO DET.	70,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	150,000	100,000	150,000	150,000	NAO DET.	100,000	100,000	NAO DET.	200,000
V-S	100,000	100,000	100,000	100,000	70,000	200,000	70,000	70,000	200,000	200,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	20,000	20,000	70,000	20,000	20,000	30,000	20,000	30,000	20,000
ZN-S	NAO DET.	+10000,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	100,000	200,000	150,000	300,000	200,000	200,000	300,000	300,000	1000,000	+1000,000

CPRM CALASTRO GEOQUIMICO

23.01.75

FLA. 93

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB437	IAB487	IAB488	IAB489	IAB490	IAB491	IAB492	IAB493	IAB494	IAB495
NUM. CAMP.	IP0493	GG0374	GG0378	GG0384	GG0388	GG0394	GG0399	GG0401	GG0406	GG0409
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.		4	4	4	4	4	4	4	4	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	02/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74
LATITUDE	24 45 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S
LONGITUDE	49 00 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0125	0074	0434	0075	0058	0086	0414	0473	0351	0213
ORDENADA - Y	0392	0322	0483	0456	0378	0266	0380	0310	0248	0441
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FNTE AMOST.	L	L	L	L	L	L	L	L	L	L
RCCHA REG.	S	C	C	C	E	D	C	C	C	S
ID. GEOLG.	CI	AX	AX	AX	AX	CS	AX	AX	AX	CS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	A	B	B	B	B	A	A	B	A
TIPC VEGET.	A	A	A	A	A	C	C	A	A	B
SIT. TOPOG.	A	B	C	B	B	B	B	B	B	C
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	560	80	100	250	140	480	100	20	160	580
PRGF. AMOST.	0,30	0,20	0,20	0,40	0,40	0,20	0,30	0,20	0,40	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPC ALTER.										
TIPU MINER.										
DEP. COCH.										
LARGURA FIO	2	2	1	1	6	2	2	3	5	2
PROFUND. RIO	0,2	0,2	0,2	0,4	0,4	0,2	0,3	0,2	0,4	0,3
VELCC. CORR.	3	2	1	2	3	2	1	2	2	1
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURE. AGUA	2	1	1	2	2	1	1	2	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	D	G	A	C	A	A	A	C	A
GRAU ABREC.	B	B	B	B	B	B	B	C	B	B
VCL. ORIGIN.										
PFSC. CONC.										
GRANULEMET.										
TEXT. SEDIM.	15211	171 1	31141	271	721	271	181	1531	82	181
COR SED./SL.										
HORIZ. SOLL.										
TIPC SOLL.										
AMB. BICTICE										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB437 IP0493	IAB487 GG0374	IAB488 GG0378	IAB489 GG0384	IAB490 GG0388	IAB491 GG0394	IAB492 GG0399	IAB493 GG04C1	IAB494 GG0406	IAB495 GG0409
PARAMETROS ANALITICOS										
FE-S %	+20,000	5,000	5,000	3,000	5,000	3,000	2,000	5,000	2,000	1,500
MG-S %	0,100	1,500	0,500	1,000	1,000	0,500	0,300	0,500	0,500	0,150
CA-S %	0,070	1,000	-0,050	0,700	0,500	0,200	0,100	0,100	0,200	0,070
TI-S %	1,000	0,500	1,000	0,300	0,500	0,300	0,300	0,700	0,100	0,100
MN-S	1000,000	1000,000	500,000	500,000	700,000	1000,000	200,000	700,000	500,000	300,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	NAD DET.	50,000	100,000	100,000	50,000	-10,000	NAD DET.	30,000	NAD DET.	NAD DET.
BA-S	100,000	500,000	300,000	700,000	500,000	200,000	500,000	300,000	1000,000	20,000
BE-S	NAD DET.	1,000	1,000	1,000	1,000	1,000	-1,000	1,000	-1,000	50,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	20,000
CD-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CG-S	20,000	20,000	10,000	10,000	15,000	15,000	5,000	20,000	10,000	NAD DET.
CR-S	1500,000	150,000	150,000	70,000	100,000	100,000	50,000	70,000	50,000	20,000
CU-S	5,000	50,000	50,000	30,000	30,000	20,000	10,000	20,000	5,000	5,000
LA-S	100,000	50,000	20,000	20,000	50,000	50,000	-20,000	-20,000	20,000	-20,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	10,000	15,000	15,000	10,000	15,000	15,000	10,000	15,000	10,000	50,000
NI-S	50,000	70,000	50,000	50,000	50,000	50,000	30,000	50,000	30,000	10,000
PB-S	20,000	20,000	20,000	20,000	20,000	20,000	15,000	20,000	10,000	50,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	20,000	10,000	10,000	10,000	10,000	7,000	5,000	10,000	-5,000	-5,000
SN-S	NAD DET.	-10,000	NAD DET.	NAD DET.	NAD DET.	-10,000	-10,000	NAD DET.	-10,000	NAD DET.
SR-S	NAD DET.	100,000	NAD DET.	200,000	100,000	-100,000	-100,000	-100,000	100,000	NAD DET.
V-S	200,000	70,000	70,000	70,000	70,000	50,000	50,000	100,000	20,000	15,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	100,000	20,000	15,000	20,000	20,000	20,000	-10,000	15,000	10,000	70,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	1000,000	300,000	200,000	200,000	200,000	300,000	100,000	200,000	150,000	300,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 95

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB496	IAB497	IAB498	IAB499	IAB500	IAB504	IAB505	IAB506	IAB507	IAB508
NUM. CAMPO	GG0413	GG0418	GGC421	GGC425	GG0439	JR0238	JR0240	JR0245	JR0246	JR0248
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XDII	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2
BASE CART.	4	4	4	4	12					
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74
LATITUDE	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00
AECISSA - X	0265	0449	0156	0485	0190	0349	0352	0403	0431	0482
ORDENADA - Y	0422	0202	0315	0035	0478	0481	0535	0409	0407	0446
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
RECHA REG.	S	S	S	S	C	Q	Q	Q	Q	Q
ID. GEOLOG.	CS	CS	CS	CS	AX	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	C	C	A	A	A	A	A
TIPO VEGET.	B	C	B	C	C	A	A	A	A	C
SIT. TOPOG.	C	B	C	A	B	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	620	260	600	30	60	180	200	150	180	180
PROF. AMOST.	0,30	0,40	0,40	0,30	0,50	0,10	0,05	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREL.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. ECCOR.										
LARGURA RIC	2	3	3	2	4	2	2	2	2	2
PROFUND. RIC	0,3	0,4	0,4	0,3	0,5	0,3	0,1	0,4	0,4	0,6
VELOC. CORR.	3	2	4	3	2	3	3	3	1	3
NIVEL AGUA	2	3	2	2	3	1	1	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	3	2	3	2	2	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	0	C	C	C	0
COR AGUA	A	C	A	A	C	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESC COAC.										
GRANULOMET.										
TEXT. SEDIM.	172	181	181	1432	721	7111	2125	5212	5212	4312
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BISTICO										

S E A G

PROJETC - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB496 GG0413	IAB497 GG0418	IAB498 GG0421	IAB499 GG0425	IAB500 GG0439	IAE504 JRO238	IAB505 JRO240	IAB506 JRO245	IAB507 JRO246	IAB508 JRO248
PARAMETROS ANALITICOS										
FE-S %	1,500	1,500	1,500	2,000	5,000	5,000	5,000	5,000	7,000	5,000
MG-S %	0,300	1,000	0,030	0,050	1,000	0,500	0,500	0,700	0,500	0,300
CA-S %	0,150	0,700	-0,050	-0,050	0,300	0,050	0,100	0,300	0,150	0,050
TI-S %	0,070	0,150	0,070	0,150	0,300	0,300	+1,000	0,500	0,500	0,300
MN-S	300,000	300,000	150,000	150,000	500,000	1000,000	1000,000	1000,000	+5000,000	3000,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	30,000	100,000	100,000	70,000	100,000	50,000
BA-S	20,000	1000,000	20,000	20,000	500,000	500,000	500,000	200,000	500,000	300,000
BE-S	5,000	-1,000	2,000	2,000	1,500	2,000	1,500	1,000	1,000	1,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CD-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	NAD DET.	5,000	-5,000	-5,000	10,000	15,000	15,000	20,000	20,000	15,000
CR-S	70,000	70,000	10,000	20,000	70,000	70,000	70,000	150,000	100,000	50,000
CU-S	7,000	5,000	-5,000	5,000	20,000	30,000	50,000	50,000	50,000	50,000
LA-S	-20,000	-20,000	-20,000	20,000	150,000	50,000	50,000	30,000	50,000	20,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	20,000	10,000	50,000	50,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	15,000	50,000	NAD DET.	10,000	50,000	50,000	20,000	70,000	50,000	30,000
PB-S	50,000	15,000	30,000	50,000	30,000	30,000	30,000	30,000	20,000	20,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	-5,000	5,000	NAD DET.	-5,000	7,000	10,000	10,000	15,000	10,000	10,000
SN-S	150,000	100,000	10,000	15,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
SR-S	NAD DET.	200,000	NAD DET.	NAD DET.	200,000	-100,000	100,000	NAD DET.	NAD DET.	NAD DET.
V-S	10,000	30,000	10,000	20,000	50,000	70,000	100,000	100,000	70,000	100,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	50,000	10,000	30,000	70,000	30,000	20,000	20,000	20,000	20,000	50,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	100,000	200,000	500,000	+1000,000	1000,000	200,000	300,000	150,000	200,000	150,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 97

S E A G

PROJETO - SUGELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB509	IAB510	IAB511	IAB512	IAB513	IAB514	IAB515	IAB516	IAB517	IAB518
NUM. CAMPO	JR0251	JR0253	JR0256	JR0257	JR0268	JR0269	JR0274	JR0277	JR0278	JR0286
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBV2	SG22XBV2	SG22XBV2	KU12XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBVI
BASE CART.										1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 30 00
ABSCISSA - X	0329	0356	0433	0435	0434	0441	0455	0450	0439	0049
ORDENADA - Y	0303	0275	0257	0249	0062	0053	0441	0489	0487	0459
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	A	A	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	A	Q	Q	Q	Q	Q	Q	Q	Q	Q
ID. GEOLÓG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	C	C	A	A	A	A	A	C
TIPO VEGET.	B	B	C	C	C	C	C	C	C	C
SIT. TOPOG.	C	A	A	A	A	A	A	A	A	A
SIT. AMOST.	A	C	C	C	C	C	C	C	C	C
ALTITUDE	190	220	300	300	240	260	190	230	260	71
PROF. AMOST.	0,10	0,20	0,20	0,20	0,20	0,20	0,20	0,25	0,20	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCOR.										
LARGURA RIO	3	2	3	4	2	2	2	2	3	2
PROFUND. RIO	0,2	0,3	0,3	0,3	0,4	0,3	0,3	0,4	0,4	0,4
VELOC. CORR.	3	2	3	3	3	3	3	3	4	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	E	C
COR. AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESC. COCOR.										
CRANULOCALIT.										
TEXT. SCLIM.	4222	5212	5212	5212	4123	3222	3214	5212	7111	2224
COR. SCL./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BILITICO										

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141-170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMFC	IAB509 JR0251	IAB510 JR0253	IAB511 JRC256	IAB512 JRC257	IAB513 JR0268	IAB514 JR0269	IAB515 JR0274	IAB516 JR0277	IAB517 JR0278	IAB518 JR0286
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	5,000	3,000	3,000	3,000	5,000	5,000	3,000
MG-S %	0,300	0,300	1,000	0,500	0,700	0,300	0,700	0,700	0,500	0,100
CA-S %	-0,050	-0,050	0,200	0,070	0,500	0,150	1,000	0,700	0,300	-0,050
TI-S %	0,200	0,500	0,300	1,000	0,500	0,500	0,500	0,500	0,500	0,300
MN-S	+5000,000	3000,000	2000,000	1500,000	700,000	1000,000	700,000	1000,000	700,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	70,000	70,000	150,000	150,000	50,000	70,000	50,000	50,000	50,000	50,000
BA-S	300,000	500,000	300,000	200,000	150,000	INSUFIC.	150,000	150,000	300,000	200,000
BE-S	1,000	1,000	5,000	2,000	1,000	1,000	-1,000	-1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	20,000	15,000	10,000	10,000	10,000	10,000	20,000	20,000	7,000
CP-S	50,000	70,000	150,000	50,000	70,000	50,000	100,000	70,000	100,000	20,000
CU-S	50,000	50,000	50,000	30,000	50,000	30,000	30,000	70,000	70,000	15,000
LA-S	50,000	20,000	20,000	20,000	20,000	50,000	20,000	20,000	30,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	50,000	70,000	20,000	30,000	15,000	30,000	30,000	50,000	20,000
PB-S	30,000	20,000	50,000	10,000	10,000	-10,000	20,000	20,000	30,000	10,000
PR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	10,000	15,000	7,000	10,000	10,000	10,000	20,000	15,000	10,000
SN-S	-10,000	-10,000	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	20,000	-10,000	NAO DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	70,000	70,000	100,000	100,000	100,000	70,000	70,000	100,000	100,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	15,000	15,000	30,000	15,000	20,000	15,000	15,000	20,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZP-S	100,000	150,000	100,000	150,000	100,000	300,000	150,000	100,000	100,000	200,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 99

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB519	IAB520	IAB521	IAB522	IAB523	IAB524	IAB525	IAB526	IAB527	IAB528
NUM. CAMPL	JR02E9	JR0290	JRC29E	JRC306	JR0307	IP0409	IP0482	IP0483	IP0496	IP0504
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTG	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV1	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2
BASE CART.										
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	49 00 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0491	0482	0087	0295	0282	0221	0063	0091	0091	0020
ORDENADA - Y	0507	0505	0158	0186	0184	0367	0516	0507	0332	0337
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLCG.	AS	AS	AS	AS	AS	AX	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	D	D	C	C	C	C	B	B	B	B
TIPO VEGET.	A	A	C	C	C	A	B	B	C	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	B	C	C	B	B
ALTITUDE	104	106	110	138	155	310	280	260	320	430
PRCF. AMOST.	0,10	0,20	0,10	0,20	0,20	0,35	0,45	0,35	0,30	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTMP.										
TIPC ALTEF.										
TIPC MINEF.										
DEP. CCCCF.										
LARGURA RIO	2	4	3	2	1	3	3	2	2	1
PROFUND. FIG	0,2	0,4	0,2	0,3	0,3	0,4	0,4	0,3	0,2	0,3
VELCC. CORR.	3	3	3	3	3	4	4	3	3	4
NIVEL AGUA	2	2	2	2	2	4	4	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	3	3	3	2	3
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	C	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	3222	81 1	5113	2512	3412	15121	15111	15112	25111	24112
COR SEC./SL.										
HORIZ. SCLC										
TIPC SCLC										
AMB. BIOTICC										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB519 JR0289	IAB520 JR0290	IAB521 JRC298	IAB522 JRC306	IAB523 JR0307	IAB524 IP0409	IAB525 IP0482	IAB526 IPC483	IAB527 IP0496	IAB528 IP0504
PARAMETROS ANALITICOS										
FE-S %	7,000	5,000	5,000	5,000	5,000	5,000	7,000	7,000	3,000	5,000
MG-S %	0,700	0,700	0,500	0,500	0,300	1,500	0,700	0,700	0,300	0,200
CA-S %	0,500	0,700	0,050	0,200	0,100	2,000	0,500	0,700	0,100	0,050
TI-S %	0,700	0,700	0,300	1,000	1,000	0,700	+1,000	+1,000	1,000	0,500
MN-S	1000,000	1500,000	700,000	2000,000	1500,000	2000,000	1000,000	1000,000	500,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	20,000	30,000	70,000	50,000	70,000	50,000	50,000	70,000	100,000	100,000
BA-S	150,000	150,000	300,000	200,000	200,000	200,000	200,000	150,000	200,000	300,000
BE-S	-1,000	1,000	1,500	1,000	1,000	-1,000	-1,000	-1,000	1,000	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	50,000	20,000	10,000	15,000	15,000	50,000	15,000	15,000	15,000	15,000
CR-S	70,000	100,000	50,000	100,000	150,000	150,000	50,000	20,000	70,000	100,000
CU-S	70,000	70,000	30,000	50,000	50,000	50,000	70,000	70,000	50,000	50,000
LA-S	20,000	20,000	30,000	30,000	30,000	20,000	20,000	20,000	20,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	-10,000	10,000	10,000	15,000	10,000	10,000	10,000	15,000	15,000
NI-S	70,000	50,000	20,000	50,000	50,000	50,000	20,000	20,000	50,000	50,000
PB-S	30,000	30,000	50,000	20,000	30,000	30,000	20,000	20,000	20,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	20,000	10,000	15,000	10,000	15,000	10,000	10,000	10,000	10,000
SN-S	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	NAO DET.	-100,000	NAO DET.	NAC DET.	NAO DET.	-100,000	-100,000	-100,000	100,000	200,000
V-S	150,000	150,000	100,000	100,000	70,000	150,000	200,000	200,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	20,000	15,000	20,000	20,000	20,000	15,000	10,000	15,000	15,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	100,000	100,000	150,000	200,000	300,000	100,000	100,000	150,000	100,000	100,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 101

S E A G

PROJETO - SUDELPA

CENTRO DE COSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB529	IAB530	IAB531	IAB532	IAB533	IAB534	IAB535	IAB536	IAB537	IAB538
NUM. CAMPO	IPO505	IPO508	IPC512	IPC513	IPO525	IPO527	IPO528	IPC540	IPO547	MV0563
C. COSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG23VAV2
BASE CART.						1	1	1	1	
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74	03/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 30 00	48 30 00	48 30 00	48 30 00	47 00 00
ABSCISSA - X	0025	0143	0500	0015	0200	0106	0089	0220	0357	0038
ORDENADA - Y	0331	0388	0390	0382	0326	0432	0435	0340	0348	0399
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ECHA REC.	K	K	K	K	K	C	C	C	C	C
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AX
MAT. COLEC.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	C	C	B	C	C	C	C	C	A
TIPO VEGET.	C	A	A	A	A	A	A	A	A	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	B
SIT. AMOST.	B	B	B	B	C	C	C	C	C	C
ALTITUDE	450	380	550	550	380	280	280	300	300	20
PROF. AMOST.	0,35	0,35	0,25	0,35	0,30	0,25	0,25	0,30	0,25	0,10
FORMA IGNEA										
SIT. ESTRAT.										
MATRIZ DEPO.										
GRAU INTEMP.										
TIPO ALTE.										
TIPO MINER.										
LEP. COCOR.										
LARGURA RIO	1	2	2	2	3	1	2	4	2	3
PROFUND. RIO	0,3	0,3	0,3	0,3	0,2	0,2	0,2	0,4	0,2	0,2
VELOC. CORR.	4	3	3	3	3	3	3	3	3	4
NIVEL AGUA	2	2	2	2	3	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	3	2	2	2	2	2	2	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA	A	A	A	A	A	A	D	A	A	A
GRAU AREPT.	B	B	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PESC. COCOR.										
GRANULOMET.										
TEXT. SEDIM.	24121	14122	4132	13132	14122	15121	14221	5221	15121	631
COR. SEC./CL.										
METIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB529 IP0505	IAB530 IP0508	IAB531 IPC512	IAB532 IPC513	IAB533 IP0525	IAB534 IP0527	IAB535 IP0528	IAB536 IP0540	IAB537 IP0547	IAB538 MV0563
PARAMETROS ANALITICOS										
FE-S %	7,000	5,000	2,000	7,000	3,000	7,000	7,000	3,000	3,000	3,000
MG-S %	0,700	1,000	0,150	0,200	0,700	0,700	0,700	0,500	0,700	0,200
CA-S %	0,200	0,200	0,070	0,070	0,200	0,150	0,100	0,150	0,200	-0,050
TI-S %	0,500	0,150	0,500	0,500	0,300	1,000	+1,000	0,500	0,500	0,300
MN-S	1000,000	1000,000	500,000	500,000	1000,000	2000,000	3000,000	500,000	1000,000	500,000
AG-S	-0,500	0,500	NAC DET.	NAC DET.	NAC DET.	-0,500	2,000	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	100,000	10,000	100,000	200,000	30,000	100,000	100,000	100,000	100,000	50,000
BA-S	500,000	150,000	200,000	300,000	200,000	300,000	500,000	200,000	200,000	200,000
BE-S	1,500	2,000	2,000	1,000	1,000	1,000	2,000	2,000	1,500	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-10,000	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	50,000	20,000	10,000	20,000	15,000	50,000	50,000	10,000	15,000	10,000
CR-S	200,000	100,000	50,000	150,000	50,000	150,000	150,000	50,000	70,000	30,000
CU-S	70,000	70,000	20,000	50,000	50,000	100,000	150,000	50,000	50,000	20,000
LA-S	50,000	20,000	20,000	50,000	30,000	20,000	20,000	50,000	20,000	100,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	5,000	NAC DET.	NAC DET.	NAC DET.
NB-S	15,000	10,000	15,000	15,000	10,000	10,000	15,000	10,000	10,000	10,000
NI-S	70,000	50,000	20,000	70,000	30,000	70,000	50,000	20,000	20,000	15,000
PB-S	150,000	150,000	20,000	50,000	20,000	50,000	100,000	20,000	20,000	30,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	15,000	5,000	5,000	15,000	5,000	20,000	20,000	10,000	15,000	10,000
SN-S	-10,000	-10,000	NAC DET.	-10,000	NAC DET.	-10,000	-10,000	-10,000	-10,000	NAC DET.
SR-S	100,000	NAC DET.	100,000	150,000	-100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	150,000	100,000	50,000	100,000	50,000	150,000	150,000	100,000	100,000	50,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	15,000	10,000	300,000	15,000	30,000	20,000	20,000	20,000	30,000
ZN-S	NAC DET.	200,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	150,000	100,000	200,000	150,000	150,000	100,000	100,000	100,000	150,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 103

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB539	IAB540	IAB541	IAB542	IAB543	IAB544	IAB545	IAB546	IAB623	IAB634
NUM. CAMPO	MV0575	MV0580	MVC595	MV0611	GG0346	GG0350	GG0355	GG0360	JR0387	IP0558
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VAII	SG22XBVI	SG22XBVI	SG22XBVI	SG22XEVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBII
BASE CART.	4	3	4	4	4	4	4	4	1	4
BASE CART.										
ESCALA	0050	0050	CC50	0050	0050	0050	0050	C050	C050	0050
DATA	03/74	03/74	C3/74	03/74	03/74	03/74	03/74	03/74	04/74	04/74
LATITUDE	24 30 00 S	24 45 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	24 45 00 S	24 30 00 S
LONGITUDE	47 15 00	47 30 00	48 15 00	48 00 00	48 15 00	48 15 00	48 15 00	48 15 00	48 30 00	48 45 00
ABSCISSA - X	0115	0483	0363	0385	0320	0320	0265	C148	0465	0223
ORDENADA - Y	0215	0540	C172	0055	0409	0303	0220	C357	0420	0068
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	A	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	D	C	S	C	C	N	C
ID. GEOLCG.	AX	AX	AX	CS	CS	CS	AX	AX	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICIDADE	D	A	C	A	A	A	A	A	B	C
TIPO VEGET.	C	B	A	C	C	C	C	C	C	B
SIT. TOPOG.	A	B	A	B	B	B	B	B	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE		30	30	50	320	420	570	510	80	
PROF. AMOST.	0,20	0,50	0,30	0,50	0,10	1,00	0,30	0,10	C,20	0,15
FORMA IGNEA										
SIT. ESTALT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. COCCO.										
LARGURA RIO	1	1	5	3	2	3	1	5	2	1
PROFUND. RIO	0,2	0,5	0,5	0,5	0,1	1,0	0,3	0,1	0,4	0,1
VELOC. CORR.	3	4	3	3	2	1	2	1	3	3
NIVEL AGUA	3	2	3	3	2	2	2	2	2	2
AREA DRENAG.	1	1	1	2	1	1	1	1	1	1
TURB. AGUA	2	3	2	1	1	1	2	1	1	2
POS. COLETA	C	C	C	C	C	C	C	C	D	C
COR AGUA	A	A	I	A	A	D	A	A	A	A
GRAU AREL.	B	B	B	B	B	B	B	B	A	B
VCL. ORIGIN.										
PESC COCCO.										
GRANULOMET.										
TEXT. SEDIM.	172	361	46	262	82	451	361	181	3214	6211
COR SEC./SL.										
HOFIZ. SOLO										
TIPC SOLO										
AMB. BICTICO										

AMOSTRAS DE SEDIMENTOS DE COBRETE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB539 MV0575	IAB540 MV0580	IAB541 MVC555	IAB542 MV0611	IAB543 GG0346	IAB544 GG0350	IAB545 GG0355	IAB546 GG0360	IAB633 JP0387	IAB634 IP0558
PARAMETROS ANALITICOS										
FE-S %	5,000	2,000	1,000	3,000	1,500	2,000	2,000	2,000	3,000	2,000
MG-S %	1,500	0,300	0,300	0,700	0,200	0,300	0,200	0,700	0,200	0,500
CA-S %	1,000	0,050	0,150	0,200	0,100	0,300	0,150	0,700	-0,050	0,300
TI-S %	0,300	0,500	0,100	0,300	0,100	0,150	0,200	0,150	1,000	0,500
MN-S	500,000	500,000	300,000	500,000	200,000	200,000	300,000	300,000	2000,000	300,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
AU-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
B-S	NAD DET.	200,000	10,000	-10,000	NAD DET.	NAC DET.	20,000	NAD DET.	50,000	10,000
BA-S	200,000	200,000	300,000	300,000	50,000	500,000	300,000	500,000	300,000	700,000
BE-S	1,000	1,000	-1,000	1,000	3,000	1,000	1,000	1,000	1,500	5,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
CD-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	15,000	7,000	5,000	10,000	-5,000	5,000	5,000	5,000	10,000	5,000
CR-S	100,000	20,000	20,000	50,000	20,000	20,000	15,000	50,000	70,000	50,000
CU-S	20,000	20,000	5,000	20,000	5,000	-5,000	7,000	7,000	20,000	-5,000
LA-S	100,000	100,000	20,000	50,000	20,000	20,000	20,000	20,000	20,000	70,000
MG-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAD DET.	NAC DET.
NB-S	10,000	10,000	-10,000	10,000	20,000	10,000	20,000	15,000	10,000	10,000
NI-S	30,000	15,000	15,000	50,000	15,000	20,000	15,000	20,000	20,000	15,000
PB-S	20,000	15,000	20,000	30,000	50,000	10,000	20,000	30,000	20,000	30,000
SE-S	NAD DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAC DET.
SC-S	10,000	10,000	5,000	7,000	NAD DET.	-5,000	-5,000	5,000	5,000	NAC DET.
SN-S	-10,000	NAD DET.	NAD DET.	-10,000	15,000	NAC DET.	NAD DET.	10,000	NAC DET.	NAC DET.
SR-S	150,000	NAD DET.	-100,000	-100,000	NAD DET.	150,000	-100,000	200,000	NAC DET.	300,000
V-S	50,000	50,000	20,000	50,000	20,000	30,000	30,000	30,000	50,000	50,000
W-S	NAD DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.
Y-S	20,000	50,000	10,000	15,000	50,000	10,000	10,000	20,000	20,000	10,000
ZN-S	NAD DET.	NAD DET.	NAC DET.	NAD DET.	NAC DET.	NAC DET.	NAD DET.	NAD DET.	NAC DET.	NAD DET.
ZR-S	500,000	300,000	100,000	300,000	150,000	150,000	300,000	200,000	100,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 105

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB635	IAB636	IAB637	IAB638	IAB639	IAB640	IAB641	IAB642	IAB643	IAB644
NUM. CAMPO	IP0559	IP0560	IP0563	IP0564	IP0566	IP0577	IP0578	IP0585	IP0587	IP0591
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBV2	SG22XRVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	4	4	4	4		1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0220	0219	0234	0262	0111	0432	0458	0400	0378	0350
ORDENADA - Y	0055	0040	0055	0117	0482	0228	0191	0208	0193	0117
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	S	S	C	S	C
ID. GEOLG.	AS	AS	AS	AS	AS	CI	CI	AS	CI	II
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	C	C	C	C	C	C	C	C	C
TIPO VEGET.	B	B	A	B	A	A	A	A	A	A
SIT. TCPCG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE						75	81	105	187	128
PROF. AMOST.	0,15	0,20	0,35	0,30	0,35	0,30	0,85	0,25	0,35	0,28
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCR.										
LARGURA RIO	1	1	5	1	3	2	3	1	1	2
PROFUND. RIO	0,1	0,1	0,3	0,3	0,3	0,3	0,8	0,2	0,3	0,2
VELCC. CORR.	3	3	4	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	3	2	2	2	2	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AFREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	5221	5211	15211	15211	15211	5221	6211	6211	15121	1511
COR SEC./SL.										
HORIZ. SCLG										
TIPO SCLC										
AMB. BIGTICE										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB635 IP0559	IAB636 IP0560	IAB637 IP0562	IAB638 IP0564	IAB639 IP0566	IAB640 IP0577	IAB641 IP0578	IAB642 IP0585	IAB643 IP0587	IAB644 IP0591
PARAMETROS ANALITICOS										
FE-S %	3,000	1,500	3,000	2,000	2,000	3,000	2,000	2,000	3,000	3,000
MG-S %	0,500	0,700	0,200	0,200	0,100	0,150	1,000	0,700	0,200	0,700
CA-S %	0,200	0,150	0,100	0,070	0,070	0,100	0,300	0,200	0,070	0,100
TI-S %	0,700	0,300	+1,000	0,300	1,000	+1,000	0,300	0,200	0,300	0,500
MN-S	300,000	300,000	1500,000	300,000	500,000	700,000	500,000	300,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
B-S	10,000	10,000	50,000	50,000	150,000	-10,000	200,000	100,000	200,000	300,000
BA-S	1000,000	1000,000	150,000	200,000	150,000	200,000	500,000	300,000	200,000	300,000
BE-S	5,000	3,000	-1,000	-1,000	2,000	5,000	2,000	1,000	1,000	1,000
BI-S	NAO DET.	-10,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000	10,000	5,000	10,000	7,000	1,000	10,000	7,000	7,000
CR-S	50,000	15,000	15,000	20,000	50,000	70,000	50,000	70,000	50,000	70,000
CU-S	-5,000	30,000	20,000	-5,000	20,000	10,000	10,000	7,000	15,000	15,000
LA-S	70,000	70,000	NAC DET.	-20,000	NAO DET.	70,000	50,000	70,000	50,000	100,000
MO-S	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	-5,000	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	20,000	-10,000	-10,000	10,000	10,000
NI-S	15,000	10,000	10,000	10,000	20,000	10,000	15,000	15,000	15,000	20,000
PB-S	30,000	50,000	15,000	20,000	70,000	30,000	20,000	20,000	20,000	15,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	10,000	7,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	300,000	200,000	NAO DET.	NAO DET.	100,000	-100,000	100,000	100,000	-100,000	-100,000
V-S	50,000	30,000	70,000	20,000	50,000	50,000	30,000	20,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	-10,000	-10,000	10,000	-10,000	15,000	50,000	30,000	15,000	20,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	200,000	150,000	200,000	200,000	100,000	300,000	100,000	100,000	200,000	150,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 107

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB645	IAB646	IAB647	IAB648	IAB649	IAB650	IAB651	IAB652	IAB653	IAB654
NUM. CAMPO	IP0592	IP0594	IPC595	IP0596	IP0607	IP0608	IP0611	IP0624	IP0634	IP0638
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	1	1	1	1	4	4	4	4	4	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0330	0296	0297	0358	0283	0271	0371	0296	0342	0307
ORDENADA - Y	0080	0101	0130	0154	0134	0131	0342	0225	0092	0125
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	C	C	K	S	K	K
ID. GEOLCG.	CI	CI	CI	CI	AS	AS	AS	CI	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIICIDADE	C	C	C	C	B	B	B	C	B	B
TIPO VEGET.	A	A	A	A	B	B	C	C	C	C
SIT. TCPCG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	170	200	200	145	640	633	500	885	460	592
PRCF. AMOST.	0,25	0,45	0,25	0,45	0,25	0,35	0,35	1,00	0,30	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCC.										
LARGURA RIO	1	1	3	1	1	1	3	3	1	2
PRCFUND. RIO	0,2	0,4	0,2	0,4	0,2	0,3	0,3	0,9	0,2	0,3
VELOC. CORR.	3	3	3	3	3	3	3	2	3	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	2	2	2	2	1	2	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AFREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	15211	15121	24121	24121	15211	15211	15211	16111	15121	15121
CCR SFC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMP. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB645 IP0592	IAB646 IP0594	IAB647 IPC595	IAB648 IPC596	IAB649 IP0607	IAB650 IP0608	IAB651 IP0611	IAB652 IP0624	IAB653 IP0634	IAB654 IP0638
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	3,000	3,000	3,000	3,000	3,000	1,500	3,000	2,000
MG-S %	0,500	1,000	0,500	1,000	0,200	0,300	0,500	0,100	0,100	0,500
CA-S %	0,150	0,200	0,070	0,200	0,150	0,150	0,500	0,050	0,050	0,200
TI-S %	0,500	0,500	0,500	1,000	0,300	0,500	+1,000	+1,000	1,000	0,300
MN-S	300,000	700,000	500,000	2000,000	200,000	500,000	1000,000	700,000	500,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	200,000	150,000	300,000	100,000	100,000	20,000	20,000	150,000	100,000
BA-S	500,000	500,000	200,000	300,000	200,000	200,000	200,000	150,000	150,000	300,000
BE-S	1,500	1,500	1,500	2,000	1,000	1,000	-1,000	-1,000	-1,000	1,500
BI-S	-10,000	-10,000	NAC DET.	NAC DET.	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	10,000	7,000	7,000	10,000	7,000	10,000	7,000	5,000	10,000	7,000
CR-S	50,000	50,000	30,000	50,000	50,000	50,000	20,000	10,000	20,000	50,000
CU-S	7,000	15,000	20,000	20,000	20,000	50,000	7,000	7,000	20,000	10,000
LA-S	70,000	100,000	20,000	50,000	30,000	20,000	-20,000	NAO DET.	30,000	NAC DET.
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	-5,000	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	15,000	10,000	10,000	10,000	10,000	10,000	-10,000
NI-S	20,000	20,000	20,000	20,000	15,000	20,000	10,000	5,000	20,000	15,000
PB-S	15,000	20,000	15,000	20,000	20,000	50,000	20,000	15,000	70,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	7,000	NAO DET.	10,000	7,000	7,000	5,000	NAO DET.	7,000	NAO DET.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	100,000	100,000	NAC DET.	-100,000	-100,000	-100,000	150,000	-100,000	-100,000	100,000
V-S	70,000	50,000	50,000	70,000	50,000	70,000	50,000	30,000	70,000	20,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	20,000	15,000	30,000	10,000	15,000	10,000	-10,000	20,000	15,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	200,000	200,000	150,000	150,000	150,000	100,000	200,000	200,000	300,000	150,000

CPRM CALESTRO GECQUIMICO

23.01.75

FLA. 109

S E A G

PROJETC - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB655	IAB656	IAB657	IAB658	IAB659	IAB660	IAB661	IAB662	IAB663	IAB664
NUM. CAMPO	JR0335	JR0351	JRC349	JR0352	JR0355	JR0356	JR0359	JR0360	JR0362	JR0363
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0390	0420	0425	0465	0484	0352	0335	0345	0335	0313
ORDENADA - Y	0068	0249	0332	0201	0120	0147	0073	0057	0036	0016
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	N	N	S	N	N	S	S	A	S
ID. GEOLCG.	AS	AS	AS	AX	AS	AS	CI	CI	AS	AS
MAT. CULET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICIDADE	A	A	A	B	B	B	B	B	B	B
TIFO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	280	90	58	110	210	120	125	160	200	290
PROF. AMOST.	0,40	0,20	0,20	0,20	0,20	0,30	0,40	0,30	0,30	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. CCCC.										
LARGURA RIO	3	4	2	3	4	2	3	3	3	4
PROFUND. RIO	0,6	0,4	0,5	0,3	0,3	0,4	0,5	0,4	0,5	0,5
VELCC. CCR.	4	3	2	3	4	4	4	4	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	2	1	2	2	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. COLETA	C	C	E	C	C	C	C	C	C	D
COR AGUA	A	D	A	A	A	A	A	A	A	A
GRAU ARRÉD.	A	A	A	A	A	A	A	A	A	A
VOL. FRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	4222	3313	44 2	2422	721	6211	4411	63	72 1	2512
CCR SEC./SL.										
HORIZ. SCLG										
TIPC SOLC										
AMB. BIOTIC										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB655 JR0335	IAB656 JR0351	IAB657 JR0349	IAB658 JR0352	IAB659 JR0355	IAB660 JR0356	IAB661 JR0359	IAB662 JR0360	IAB663 JR0362	IAB664 JR0363
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	2,000	2,000	3,000	2,000	3,000	3,000	2,000	3,000
MG-S %	1,000	0,300	0,500	1,000	0,300	0,300	1,000	0,700	0,500	0,300
CA-S %	0,200	0,070	0,100	0,300	0,050	0,700	0,500	0,150	0,070	-0,050
TI-S %	1,000	0,700	0,700	0,200	0,300	0,300	0,500	0,500	0,500	0,500
MN-S	500,000	1000,000	2000,000	700,000	1000,000	500,000	700,000	1000,000	700,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	200,000	50,000	150,000	150,000	200,000	200,000	10,000	100,000	150,000	150,000
BA-S	500,000	300,000	300,000	500,000	300,000	500,000	700,000	500,000	300,000	500,000
BE-S	3,000	1,000	1,000	1,000	1,500	1,000	1,000	1,000	1,000	1,500
BI-S	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	15,000	15,000	7,000	10,000	7,000	10,000	10,000	7,000	10,000
CR-S	50,000	100,000	70,000	100,000	70,000	70,000	50,000	70,000	50,000	100,000
CU-S	20,000	20,000	20,000	20,000	20,000	10,000	15,000	20,000	10,000	10,000
LA-S	70,000	30,000	NAC DET.	100,000	-20,000	100,000	100,000	70,000	20,000	-20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	15,000	10,000	10,000	-10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	20,000	30,000	30,000	20,000	30,000	20,000	20,000	30,000	20,000	30,000
PB-S	20,000	30,000	20,000	30,000	20,000	20,000	30,000	30,000	10,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	5,000	5,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	5,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	-100,000	NAO DET.	NAO DET.	100,000	NAO DET.	-100,000	200,000	-100,000	NAO DET.	NAO DET.
V-S	70,000	70,000	50,000	30,000	50,000	50,000	50,000	50,000	30,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	30,000	15,000	10,000	20,000	10,000	20,000	20,000	20,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	150,000	100,000	150,000	200,000	200,000	300,000	150,000	200,000

CPRM CACASTRO GEGQUIMICO

23.01.75

FLA. 111

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB665	IAB666	IAB667	IAB668	IAB669	IAB670	IAB671	IAB672	IAB673	IAB674
NUM. CAMPO	JR0364	JR0365	JRC366	JRC367	JR0368	JR0370	JR0371	JR0373	JR0375	JR0380
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	1	1	1	1	1	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	CC5C	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	C4/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0302	0360	0350	0251	0243	0227	0234	0442	0402	0205
ORDENADA - Y	0018	0217	0200	0135	0122	0093	0090	0370	0370	0248
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A
FCNTE AMOST.	L	L	L	L	L	L	L	L	L	L
RECHA REG.	S	S	S	S	S	P	S	N	N	C
ID. GEOLCG.	AX	AX	AS	AS	AX	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIGSILAGE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	C	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	270	170	130	170	190	290	270	60	80	510
PRCF. AMOST.	0,40	0,30	0,20	0,20	0,20	0,20	0,30	0,20	0,10	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIO	3	3	3	2	2	2	2	3	2	3
PROFUND. RIO	0,5	0,5	0,4	0,3	0,3	0,4	0,4	0,4	0,4	0,5
VELCC. CORR.	3	3	3	3	3	3	4	3	3	4
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. CCLETA	D	C	D	C	C	C	C	D	D	D
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	A	A	A	A	A	A	A	A	A	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	4411	2512	4411	4411	4411	3511	4411	3412	4312	82
COR SEC./SL.										
HCFIZ. SOLE										
TIPC SOLL										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB665 JR0364	IAB666 JR0365	IAB667 JRC366	IAB668 JR0367	IAB669 JR0368	IAB670 JR0370	IAB671 JR0371	IAB672 JR0373	IAB673 JR0375	IAB674 JR0380
PARAMETROS ANALITICOS										
FE-S %	2,000	5,000	2,000	3,000	5,000	5,000	2,000	7,000	5,000	3,000
MG-S %	0,300	1,000	0,300	0,700	0,500	0,700	0,300	0,500	0,500	0,200
CA-S %	0,070	0,100	0,070	0,150	0,100	0,150	0,070	0,200	0,150	0,050
TI-S %	0,500	0,700	0,300	0,700	1,000	0,700	0,300	1,000	1,000	0,500
MN-S	500,000	1000,000	1000,000	1000,000	700,000	1000,000	1000,000	2000,000	2000,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	100,000	100,000	200,000	500,000	200,000	500,000	100,000	100,000	100,000	70,000
BA-S	500,000	500,000	300,000	500,000	300,000	500,000	300,000	300,000	300,000	200,000
BE-S	-1,000	1,000	1,000	1,500	-1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	-10,000	NAC DET.	-10,000	-10,000	-10,000	NAO DET.	-10,000	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	15,000	7,000	10,000	10,000	10,000	7,000	15,000	10,000	7,000
CR-S	70,000	100,000	50,000	100,000	50,000	100,000	30,000	150,000	70,000	70,000
CU-S	10,000	30,000	10,000	20,000	15,000	20,000	20,000	50,000	20,000	10,000
LA-S	-20,000	-20,000	20,000	70,000	50,000	50,000	50,000	20,000	30,000	70,000
MD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	-5,000
NB-S	15,000	10,000	15,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	20,000	30,000	15,000	20,000	20,000	30,000	20,000	30,000	20,000	30,000
PB-S	10,000	10,000	10,000	20,000	15,000	20,000	15,000	30,000	50,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	7,000	10,000	5,000	7,000	5,000	7,000	NAO DET.	15,000	7,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	-100,000	-100,000	NAO DET.	-100,000	NAO DET.	-100,000	NAO DET.	-100,000	-100,000	NAO DET.
V-S	50,000	70,000	50,000	70,000	70,000	70,000	50,000	100,000	70,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	10,000	15,000	15,000	20,000	15,000	20,000	10,000	20,000	15,000	15,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	150,000	200,000	300,000	150,000	150,000	150,000	200,000	100,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 113

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB675	IAB676	IAB677	IAB678	IAB679	IAB680	IAB681	IAB682	IAB683	IAB684
NUM. CAMPO	JR0384	JR0385	AMC22E	AM0229	AM0231	AM0234	AM0235	FB0201	FB0202	FB0203
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBV4	SG22XBV4	SG22XBV4	SG22XBV4	SG22XBV4	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	1	1						3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 45 00 S	24 45 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S
LONGITUDE	48 30 00	48 30 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0129	0142	0365	0376	0377	0370	0375	0426	0361	0331
ORDENADA - Y	0263	0270	0047	0063	0105	0170	0185	0111	0103	0080
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	A	A	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
RCCHA REG.	N	N	C	M	M	C	C	M	M	M
ID. GEOLG.	AS	AS	AM	AM	AM	AM	AM	AM	AM	AM
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	A	A	A
TIPC VEGET.	C	C	C	C	C	C	C	C	C	C
SIT. TCPCG.	A	A	A	A	A	A	B	A	C	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	290	290	210	230	205	225	235	650	640	630
PROF. AMOST.	0,20	0,10	0,30	0,30	0,30	0,30	0,30	0,25	0,40	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	3	3	3	5	8	2	2	3	4
PROFUND. RIO	0,4	0,3	0,5	0,5	0,5	0,5	0,4	0,5	0,5	0,6
VELOC. CORR.	3	4	3	3	3	3	3	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	1	2	2	2	2	2	1	1	1
PCS. COLETA	D	E	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	A	A	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.	3412	5311	1522	4411	361	1711	1522	2611	34111	2521
COR SEC./SL.										
HORIZ. SOLE										
TIPC SOLE										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPC	IAB675 JR0384	IAB676 JR0385	IAB677 AM0228	IAB678 AM0229	IAB679 AM0231	IAB680 AM0234	IAB681 AM0235	IAB682 FB0201	IAB683 FB0202	IAB684 FB0203
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	7,000	7,000	5,000	3,000	3,000	7,000	5,000	3,000
MG-S %	0,300	0,500	1,000	1,500	1,500	1,000	0,500	0,300	0,030	0,070
CA-S %	0,070	0,100	0,700	1,000	0,700	0,500	0,150	0,050	0,050	0,050
TI-S %	0,500	1,000	1,000	+1,000	0,700	0,300	0,300	+1,000	+1,000	0,700
MN-S	1000,000	2000,000	1500,000	1500,000	1000,000	700,000	1000,000	2000,000	5000,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	150,000	200,000	NAO DET.	20,000	10,000	70,000	150,000	15,000	-10,000	-10,000
BA-S	300,000	500,000	500,000	700,000	500,000	300,000	200,000	150,000	100,000	20,000
BE-S	1,000	1,500	-1,000	-1,000	1,000	1,000	-1,000	-1,000	NAO DET.	-1,000
BI-S	-10,000	NAO DET.	NAC DET.	NAC DET.	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	15,000	15,000	15,000	15,000	15,000	10,000	5,000	10,000	7,000	-5,000
CR-S	70,000	70,000	150,000	70,000	100,000	70,000	50,000	300,000	300,000	20,000
CU-S	30,000	30,000	30,000	30,000	30,000	20,000	20,000	50,000	20,000	5,000
LA-S	NAO DET.	-20,000	70,000	70,000	100,000	30,000	50,000	70,000	20,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	5,000
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	15,000	15,000
NI-S	30,000	30,000	50,000	30,000	50,000	30,000	20,000	70,000	5,000	10,000
PB-S	20,000	20,000	10,000	10,000	30,000	20,000	15,000	30,000	20,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	7,000	10,000	5,000	10,000	10,000	7,000	7,000	10,000	NAO DET.	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	-100,000	200,000	200,000	150,000	100,000	-100,000	-100,000	NAO DET.	NAO DET.
V-S	70,000	100,000	70,000	100,000	70,000	70,000	50,000	100,000	30,000	50,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	10,000	15,000	20,000	20,000	20,000	10,000	10,000	20,000	-10,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	100,000	150,000	500,000	500,000	300,000	200,000	200,000	300,000	1000,000	300,000

CPRM CACASTRO GEOQUIMICO

23.01.75 FLA. 115

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB665	IAB686	IAB687	IAB688	IAB689	IAB690	IAB691	IAB692	IAB693	IAB694
NUM. CAMPO	F80207	F80208	F80215	JR0311	JR0313	JR0317	JR0318	JR0319	JR0320	JP0325
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XDII	SG22XBVI	SG22XBVI	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2	SG22XBV2
BASE CART.	3	3	11	1	1					
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	25 00 00 S	25 00 00 S	25 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0170	0141	0368	0453	0438	0268	0238	0245	0210	0145
ORDENADA - Y	0082	0086	0553	0325	0290	0280	0265	0239	0240	0179
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	M	S	C	O	C	Q	Q	Q	Q	Q
ID. GEOLCG.	AM	BX	AM	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICIDADE	A	A	A	A	A	B	A	B	B	B
TIPO VEGET.	A	C	C	A	A	A	A	A	A	A
SIT. TCPEG.	C	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	650	725	660	54	78	85	105	140	140	120
PROF. AMOST.	0,40	0,20	0,50	0,30	0,30	0,20	0,10	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEPP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIO	3	3	5	3	3	1	2	1	2	3
PROFUND. RIO	0,6	0,6	0,7	0,4	0,4	0,4	0,3	0,4	0,4	0,5
VELOC. CORR.	2	2	1	3	3	4	4	4	3	4
NIVEL AGUA	2	2	2	2	2	2	2	2	3	2
AREA DRENAG.	1	2	2	1	1	1	1	1	1	1
TURB. AGUA	1	1	0	1	1	1	1	1	1	1
PCS. COLETA	C	E	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	A	A	A	A	A	A	A	A
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	2611	1621	63 1	18 1	36 1	2314	1414	4213	2323	6211
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB685 FB0207	IAB686 FB0208	IAB687 FB0215	IAB688 JR0311	IAB689 JR0313	IAB690 JR0317	IAB691 JR0318	IAB692 JR0319	IAB693 JR0320	IAB694 JR0325
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	2,000	3,000	5,000	3,000	10,000	5,000	3,000
MG-S %	0,100	0,150	0,500	0,500	0,300	0,200	0,300	0,300	0,500	0,300
CA-S %	0,070	0,050	0,200	0,070	0,100	0,050	0,070	0,100	0,070	0,050
TI-S %	1,000	+1,000	+1,000	0,300	0,700	0,300	0,500	0,300	0,300	0,500
MN-S	2000,000	1500,000	1500,000	700,000	500,000	5000,000	700,000	5000,000	1000,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	-10,000	-10,000	-10,000	1000,000	70,000	100,000	200,000	50,000	100,000	100,000
BA-S	300,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
BE-S	-1,000	NAO DET.	-1,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	-10,000	NAC DET.	NAO DET.	-10,000	NAO DET.	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	10,000	10,000	7,000	10,000	15,000	10,000	20,000	10,000	15,000
CR-S	50,000	100,000	200,000	70,000	150,000	50,000	70,000	70,000	100,000	70,000
CU-S	5,000	20,000	30,000	10,000	20,000	30,000	20,000	70,000	20,000	20,000
LA-S	20,000	70,000	100,000	70,000	70,000	70,000	70,000	50,000	70,000	70,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	20,000	10,000	-10,000	15,000	10,000	10,000	10,000	10,000	10,000
NI-S	10,000	20,000	50,000	20,000	20,000	20,000	20,000	20,000	30,000	30,000
PB-S	30,000	15,000	30,000	50,000	30,000	50,000	50,000	30,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	NAO DET.	NAO DET.	5,000	5,000	5,000	10,000	10,000	15,000	10,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	-100,000	NAO DET.	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000	-100,000
V-S	30,000	50,000	70,000	30,000	50,000	70,000	70,000	70,000	50,000	50,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	15,000	20,000	15,000	20,000	20,000	50,000	20,000	20,000	20,000	20,000
ZN-S	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	1000,000	+1000,000	700,000	100,000	300,000	70,000	200,000	100,000	100,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 117

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB695	IAB696	IAB697	IAB698	IAB699	IAE700	IAB701	IAB702	IAB703	IAB704
NUM. CAMPO	JR0326	JR0329	JR0330	JR0332	JD0775	JD0777	JD0783	JD0796	JD0801	JD0803
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBV2	SG22XBV2	SG22XBVI	SG22XBVI	SG23VAI1	SG23VAI1	SG23VAI1	SG23VAI1	SG23VAI1	SG23VAI1
BASE CART.			1	1						
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	48 45 00	48 45 00	48 30 00	48 30 00	48 00 00	48 00 00	48 00 00	48 00 00	48 00 00	48 00 00
ABCISSA - X	0122	0204	0038	0073	0165	0131	0036	0311	0356	0414
ORDENADA - Y	0183	0228	0007	0040	0126	0144	0171	0201	0135	0148
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	A	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
RECHA REG.	Q	Q	A	D	D	D	S	S	S	S
ID. GEOLOG.	AS	AS	AS	AS	BX	BX	BX	BX	BX	BX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	A	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	B	B	B	A	C
SIT. TOPOG.	A	A	A	A	B	B	B	B	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	130	140	200	240	100	200	420	120	100	120
PROF. AMOST.	0,60	0,30	0,20	0,20	0,35	0,35	0,25	0,45	0,25	0,45
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTENF.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCC.										
LARGURA RIO	4	2	2	3	2	4	4	7	2	5
PROFUND. RIO	1,0	0,5	0,4	0,5	0,4	0,4	0,3	0,5	0,3	0,5
VELCC. CRR.	4	4	4	4	2	2	2	1	1	2
NIVEL AGUA	2	2	2	2	2	2	2	2	1	2
AREA DRENAG.	1	1	1	1	1	1	1	2	1	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. COLETA	D	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	A	A	A	A	B	B	B	B	B	B
VCL. ORIGEM										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	81 1	7 111	2413	1414	91	91	91	91	91	811
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BICTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB695 JR0326	IAB696 JR0329	IAB697 JR0330	IAB698 JR0332	IAB699 JD0775	IAB700 JC0777	IAB701 JD0783	IAB702 JDC796	IAB703 JC0801	IAB704 JD0803
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	2,000	3,000	1,500	10,000	5,000	5,000	5,000	3,000
MG-S %	0,500	0,200	1,000	1,000	0,500	0,300	0,700	1,000	0,700	0,500
CA-S %	0,070	-0,050	0,500	0,150	0,100	0,100	0,500	1,500	1,000	0,200
TI-S %	1,000	0,300	0,300	0,500	0,300	1,000	0,700	0,700	0,500	1,000
MN-S	700,000	1000,000	500,000	500,000	300,000	300,000	500,000	700,000	1000,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	70,000	150,000	150,000	150,000	20,000	50,000	20,000	70,000	50,000	200,000
BA-S	300,000	300,000	700,000	500,000	3000,000	1500,000	700,000	1500,000	1000,000	1000,000
BE-S	1,500	1,500	-1,000	1,000	-1,000	1,000	1,500	1,500	2,000	2,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	-10,000
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	10,000	10,000	10,000	7,000	10,000	10,000	10,000	10,000	7,000
CR-S	70,000	70,000	200,000	70,000	15,000	70,000	50,000	100,000	70,000	20,000
CU-S	30,000	20,000	7,000	10,000	7,000	10,000	15,000	10,000	5,000	-5,000
LA-S	30,000	50,000	30,000	70,000	50,000	30,000	50,000	20,000	50,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	10,000	-10,000	15,000	-10,000	15,000	10,000	10,000	10,000	15,000
NI-S	30,000	20,000	50,000	20,000	10,000	15,000	20,000	20,000	20,000	15,000
PB-S	30,000	30,000	20,000	30,000	100,000	50,000	30,000	50,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	7,000	NAO DET.	10,000	NAO DET.	NAO DET.	5,000	10,000	5,000	NAO DET.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	-100,000	-100,000	200,000	100,000	700,000	300,000	300,000	700,000	500,000	300,000
V-S	50,000	70,000	50,000	50,000	30,000	100,000	70,000	100,000	70,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	15,000	15,000	10,000	20,000	NAO DET.	-10,000	-10,000	15,000	15,000	-10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	100,000	200,000	200,000	300,000	70,000	300,000	200,000	1000,000	+1000,000	500,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 119

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB705	IAB706	IAB707	IAB708	IAB709	IAB710	IAB711	IAB712	IAB713	IAB714
NUM. CAMPO	JD0808	JD0814	JDC818	JD0818	JD0823	JD0826	AMO200	AMO209	AMO213	AMO214
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG23VAI2	SG22XBVI	SG22XCII	SG22XDII	SG22XDII
BASE CART.							3	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	25 00 00 S	25 15 00 S	25 15 00 S	25 15 00 S
LONGITUDE	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	47 45 00	48 30 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0073	0512	0031	0031	0190	0193	0453	0389	0389	0439
ORDENADA - Y	0204	0156	0101	0101	0143	0110	0157	0395	0424	0483
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
ORIGEM AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AI	AI	AI	AI	AI	AI	AI	AM	BX	AM
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	A	A	A
TIPO VEGET.	B	C	A	A	C	A	A	C	C	C
SIT. TOPOG.	A	A	A	A	A	A	A	C	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	220	120	100	100	180	200	635	560	545	610
PROF. AMOST.	0,25	0,35	0,45	0,45	0,35	0,35	0,30	0,30	0,30	0,70
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIC	2	2	5	5	2	4	8	4	6	10
PROFUND. RIC	0,3	0,4	0,5	0,5	0,4	0,4	1,0	0,6	0,6	1,0
VELCC. CORR.	2	2	2	2	1	1	2	1	2	3
NIVEL AGUA	2	1	2	2	1	2	2	1	2	2
AREA CRENAG.	1	1	2	1	1	1	2	2	2	2
TURB. AGUA	1	1	1	1	1	1	1	0	1	1
POS. COLETA	C	C	C	C	C	C	D	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ABREC.	B	B	B	B	B	B	B	B	B	B
VOL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	91	811	811	811	811	811	3511	2611	1711	16111
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB705 JD0808	IAB706 JD0814	IAB707 JD0818	IAB708 JDC818	IAB709 JD0823	IAB710 JDC826	IAB711 AM0200	IAB712 AM0209	IAB713 AM0213	IAB714 AM0214
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	2,000	2,000	5,000	5,000	2,000	5,000	7,000	5,000
MG-S %	0,500	1,000	0,500	0,500	1,000	1,000	0,200	1,000	1,500	1,000
CA-S %	0,100	0,300	0,200	0,300	0,700	0,300	0,200	0,200	0,500	0,500
TI-S %	0,500	0,700	0,700	0,700	0,500	0,700	1,000	+1,000	1,000	0,700
MN-S	500,000	700,000	700,000	700,000	1500,000	700,000	1000,000	2000,000	1500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	150,000	100,000	100,000	100,000	100,000	100,000	50,000	-10,000	-10,000	-10,000
BA-S	1000,000	1000,000	1000,000	1500,000	1500,000	1000,000	300,000	500,000	1000,000	700,000
BE-S	1,000	2,000	2,000	1,000	2,000	1,500	-1,000	-1,000	1,000	1,000
BI-S	NAO DET.	-10,000	NAC DET.	NAC DET.	-10,000	-10,000	NAC DET.	NAO DET.	-10,000	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CC-S	7,000	10,000	7,000	7,000	10,000	10,000	7,000	10,000	30,000	20,000
CR-S	30,000	50,000	20,000	30,000	50,000	70,000	150,000	500,000	200,000	150,000
CU-S	5,000	10,000	-5,000	-5,000	5,000	15,000	15,000	30,000	50,000	20,000
LA-S	70,000	70,000	30,000	50,000	70,000	100,000	100,000	70,000	70,000	100,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	15,000	10,000	20,000	10,000	10,000
NI-S	10,000	20,000	15,000	15,000	15,000	20,000	20,000	50,000	70,000	50,000
PB-S	30,000	50,000	30,000	30,000	50,000	30,000	30,000	30,000	30,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	NAO DET.	NAO DET.	-5,000	7,000	7,000	10,000	7,000	10,000	7,000	7,000
SN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	200,000	300,000	300,000	300,000	500,000	300,000	100,000	-100,000	100,000	100,000
V-S	50,000	70,000	30,000	30,000	70,000	70,000	50,000	70,000	100,000	70,000
W-S	-50,000	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	20,000	10,000	-10,000	20,000	15,000	50,000	20,000	20,000	20,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	300,000	300,000	300,000	700,000	500,000	700,000	1000,000	+1000,000	500,000	500,000

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB715 AM0215	IAB716 AM0216	IAB717 AMC222	IAB718 AMC223	IAB719 AM0226	IAB720 AM0227	IAB721 GG0455	IAB722 GG0457	IAB723 GG0458	IAB724 GG0459
PARAMETROS ANALITICOS										
FE-S %	7,000	15,000	7,000	3,000	3,000	7,000	5,000	3,000	3,000	10,000
MG-S %	0,700	0,500	1,500	1,000	1,000	1,000	1,000	0,300	0,700	1,500
CA-S %	0,500	0,300	0,700	0,500	1,500	0,700	0,100	0,050	0,100	0,070
TI-S %	0,700	+1,000	+1,000	1,000	0,700	+1,000	1,000	0,300	0,500	1,000
MN-S	1500,000	2000,000	1500,000	1500,000	1500,000	2000,000	1000,000	500,000	1000,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	NAO DET.	10,000	-10,000	-10,000	10,000	50,000	-10,000	70,000	NAO DET.
BA-S	300,000	500,000	300,000	700,000	1000,000	700,000	500,000	300,000	500,000	200,000
BE-S	1,500	-1,000	-1,000	1,000	1,500	-1,000	-1,000	-1,000	1,000	1,000
BI-S	-10,000	NAO DET.	-10,000	NAC DET.	-10,000	NAC DET.	-10,000	-10,000	-10,000	-10,000
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	30,000	15,000	20,000	10,000	10,000	30,000	7,000	7,000	7,000	15,000
CF-S	200,000	70,000	200,000	100,000	100,000	150,000	100,000	20,000	70,000	70,000
CU-S	30,000	15,000	50,000	10,000	20,000	30,000	10,000	5,000	20,000	30,000
LA-S	100,000	70,000	20,000	50,000	70,000	70,000	50,000	70,000	50,000	30,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	-5,000	NAO DET.	NAO DET.	NAO DET.
MD-S	10,000	15,000	10,000	10,000	10,000	10,000	20,000	15,000	15,000	15,000
NI-S	70,000	20,000	50,000	20,000	20,000	70,000	50,000	20,000	30,000	100,000
PB-S	30,000	30,000	20,000	30,000	50,000	20,000	30,000	30,000	30,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	7,000	5,000	5,000	NAO DET.	5,000	5,000	5,000	NAO DET.	5,000	7,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SR-S	100,000	-100,000	200,000	200,000	300,000	200,000	-100,000	NAO DET.	-100,000	NAO DET.
V-S	70,000	150,000	100,000	50,000	70,000	100,000	50,000	30,000	50,000	150,000
W-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	20,000	70,000	10,000	-10,000	20,000	20,000	20,000	15,000	15,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	500,000	+1000,000	700,000	500,000	300,000	+1000,000	+1000,000	300,000	300,000	500,000

CPRM CADAstro GEOQUIMICO

23.01.75

FLA. 123

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB725	IAB726	IAB727	IAB728	IAB729	IAB730	IAB731	IAB732	IAB733	IAB734
NUM. CAMPO	GG0463	GG0464	GG0465	GG0470	GG0471	GG0479	JC0689	JD0690	JC0698	JD0700
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	4	4	12	12	12	12	2	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	25 00 00 S	25 00 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0101	0086	0197	0172	0151	0125	0395	0450	0066	0108
ORDENADA - Y	0038	0047	0539	0540	0540	0482	0212	0386	0118	0127
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	Q	Q	C	C	C	C	C	C	C	C
ID. GEOLÓG.	AX	AX	AX	AX	AX	AX	AI	AI	AI	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	B	B	B	B	B	B	A	A	A	A
SIT. TOPOG.	C	C	C	B	B	C	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	450	460	320	340	360	120	60	70	130	120
PRCF. AMOST.	0,20	0,30	0,30	0,30	0,40	0,50	0,35	0,35	0,35	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTIMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCCO.										
LARGURA RIO	2	2	2	3	5	3	2	1	3	4
PRCFUND. RIO	0,2	0,3	0,3	0,3	0,4	0,5	0,4	0,4	0,4	0,4
VELCC. CORR.	2	2	1	1	1	4	1	1	1	1
NIVEL AGUA	2	2	2	2	2	2	2	1	2	1
AREA DRENAG.	1	1	1	1	1	1	1	1	1	2
TURB. AGUA	2	2	2	1	1	3	1	1	1	1
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	B	B	B	B	B	B	B	B	B	B
VCL. ORIGIN.										
PESC COCCO.										
GRANULOMET.										
TEXT. SECIM.	352	352	172	172	172	172	611	91	611	811
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										
AM. BICTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB725 GG0463	IAB726 GG0464	IAB727 GG0465	IAB728 GG0470	IAB729 GG0471	IAB730 GG0479	IAB731 J00689	IAB732 J00690	IAB733 J00698	IAB734 J00700
PARAMETROS ANALITICOS										
FE-S %	5,000	7,000	1,500	2,000	3,000	2,000	2,000	2,000	3,000	2,000
MG-S %	0,200	0,300	0,300	0,500	0,700	0,500	0,150	0,700	0,300	0,300
CA-S %	-0,050	-0,050	0,070	0,150	0,500	0,300	0,100	0,300	0,050	0,150
TI-S %	0,500	0,700	0,300	0,300	0,300	0,300	0,500	0,700	0,500	0,300
MN-S	1000,000	1000,000	300,000	300,000	300,000	300,000	1500,000	500,000	1500,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	100,000	100,000	200,000	150,000	10,000	10,000	150,000	100,000	200,000	700,000
BA-S	300,000	300,000	1000,000	700,000	700,000	500,000	150,000	300,000	200,000	200,000
BE-S	1,500	1,500	-1,000	1,000	1,000	1,500	1,000	1,000	1,500	1,500
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	20,000	15,000	5,000	7,000	15,000	10,000	10,000	10,000	15,000	7,000
CR-S	70,000	100,000	30,000	70,000	150,000	70,000	150,000	100,000	150,000	150,000
CU-S	70,000	70,000	5,000	15,000	20,000	15,000	20,000	15,000	20,000	10,000
LA-S	50,000	50,000	200,000	100,000	50,000	100,000	70,000	300,000	20,000	50,000
MD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	50,000	15,000	50,000	70,000	20,000	20,000	15,000	30,000	30,000
PB-S	50,000	70,000	50,000	30,000	20,000	30,000	20,000	30,000	20,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	10,000	10,000	5,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	150,000	150,000	200,000	150,000	NAO DET.	100,000	NAO DET.	100,000
V-S	70,000	70,000	20,000	50,000	70,000	50,000	50,000	50,000	70,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	15,000	15,000	15,000	20,000	10,000	10,000	10,000	70,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	200,000	1000,000	500,000	700,000	300,000	200,000	1000,000	300,000	100,000

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB735 JD0703	IAB736 JD0722	IAB737 JDC727	IAB738 JDC738	IAB739 JS0745	IAB740 JCO746	IAB741 JCO765	IAB742 JCC770	IAB743 MVG624	IAB744 PV0625
PARAMETROS ANALITICOS										
FE-S %	5,000	15,000	3,000	2,000	7,000	3,000	3,000	2,000	5,000	0,500
MG-S %	0,300	0,700	0,300	0,500	0,500	0,200	0,700	1,000	0,150	0,050
CA-S %	0,200	0,050	0,100	0,100	0,100	-0,050	0,500	0,700	0,150	0,050
TI-S %	0,700	0,700	+1,000	0,300	1,000	0,700	0,700	0,300	0,500	0,500
MN-S	1000,000	2000,000	1500,000	500,000	700,000	300,000	500,000	700,000	1000,000	300,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	100,000	-10,000	200,000	150,000	50,000	100,000	20,000	20,000	-10,000	30,000
BA-S	200,000	150,000	200,000	200,000	100,000	200,000	2000,000	1000,000	700,000	150,000
BE-S	2,000	1,000	1,000	1,000	1,000	1,500	1,500	1,000	1,000	-1,000
BI-S	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	-10,000	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
CC-S	15,000	70,000	20,000	7,000	30,000	10,000	10,000	10,000	10,000	-5,000
CR-S	700,000	3000,000	2000,000	200,000	150,000	70,000	50,000	100,000	10,000	-10,000
CU-S	30,000	50,000	20,000	15,000	100,000	30,000	10,000	10,000	50,000	-5,000
LA-S	50,000	50,000	200,000	100,000	-20,000	50,000	50,000	-20,000	50,000	-20,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	-5,000
NB-S	70,000	15,000	20,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	50,000	2000,000	70,000	50,000	100,000	50,000	30,000	30,000	10,000	NAC DET.
PE-S	70,000	20,000	20,000	20,000	20,000	20,000	50,000	30,000	30,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	5,000	20,000	5,000	-5,000	20,000	10,000	5,000	5,000	5,000	NAO DET.
SN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	200,000	NAO DET.	-100,000	100,000	NAO DET.	NAC DET.	500,000	500,000	200,000	-100,000
V-S	100,000	70,000	50,000	30,000	100,000	70,000	50,000	50,000	100,000	10,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	10,000	10,000	50,000	30,000	10,000	10,000	10,000	10,000	10,000	10,000
ZN-S	NAO DET.	INTERFER.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	200,000	150,000	300,000	700,000	100,000	100,000	300,000	500,000	300,000	300,000

CPRM CADASTRAL GEOQUIMICO 23.01.75 FLA. 127
 S. E. A. G. PROJETO - SUDELPA CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB745	IAB746	IAB747	IAB748	IAB749	IAB750	IAB751	IAB752	IAB753	IAB754
NUM. CAMPO	MV0627	MV0631	MVC632	MVC639	MV0644	MV0660	MV0663	MVC666	JLC589	JL0604
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VCII	SG23VCII	SG23VCII	SG23VCII	SG23VCII	SG23VCII	SG23VCII	SG23VCII	SG23VAII	SG22XDII
BASE CART.									U	12
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74	04/74
LATITUDE	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 00 00 S	24 15 00 S	24 15 00 S
LONGITUDE	48 00 00	47 15 00	48 00 00	48 00 00	48 00 00	48 00 00	48 00 00	48 00 00	47 30 00	48 15 00
ABCISSA - X	0042	0138	0139	0181	0168	0117	0078	0077	0325	0281
ORDENADA - Y	0178	0311	0340	0310	0280	0210	0230	0347	0281	0012
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
ID. GEOLG.	CS	CS	CS	CS	CS	CS	CS	CS	AT	AI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	D	B
TIPO VEGET.	B	B	B	B	B	B	B	B	B	C
SIT. TOPOG.	A	C	A	B	B	A	B	A	B	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	10	180	80	140	130	10	180	20		
PRCF. AMOST.	0,20	0,40	0,50	0,30	0,40	1,00	0,60	0,50	0,40	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREG.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEF. COCCF.										
LARGURA RIC	6	6	6	10	6	6	5	8	2	6
PROFUND. RIO	2,0	0,4	0,5	0,5	0,5	1,5	0,6	0,5	0,5	0,6
VELOC. CORR.	4	4	3	4	4	2	4	2	2	2
NIVEL AGUA	2	2	2	2	2	3	3	2	2	2
AREA DRENAG.	2	1	1	1	1	1	1	1	2	1
TURB. AGUA	2	3	2	2	2	1	2	1	1	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	I	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	C
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.	37	37	55	271	37	46	361	253	811	811
COR SEC./SL										
HORIZ. SCLC										
TIPC SCLC										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB745 MV0627	IAB746 MV0631	IAB747 MV0632	IAB748 MV0639	IAB749 MV0644	IAB750 MV0660	IAB751 MV0663	IAB752 MV0666	IAB753 JL0589	IAB754 JL0604
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	7,000	7,000	7,000	2,000	2,000	3,000	2,000	5,000
MG-S %	0,200	0,300	0,300	0,200	0,300	0,200	0,200	0,100	0,200	1,000
CA-S %	0,150	0,150	0,200	0,200	0,300	0,100	0,150	0,100	0,050	0,100
TI-S %	0,300	0,300	0,500	0,500	0,500	0,200	0,300	0,500	0,300	0,500
MN-S	700,000	1000,000	1000,000	700,000	700,000	200,000	500,000	300,000	300,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	-10,000	-10,000	20,000	-10,000	10,000	-10,000	-10,000	30,000	300,000	70,000
BA-S	700,000	500,000	1000,000	1500,000	1000,000	700,000	1000,000	500,000	300,000	500,000
BE-S	1,000	1,500	1,500	1,000	1,000	1,000	1,000	1,000	1,000	1,500
BI-S	-10,000	-10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-S	5,000	10,000	15,000	10,000	10,000	-5,000	-5,000	-5,000	-5,000	20,000
CR-S	10,000	30,000	30,000	20,000	20,000	10,000	20,000	10,000	15,000	70,000
CU-S	5,000	50,000	30,000	30,000	20,000	-5,000	-5,000	7,000	-5,000	30,000
LA-S	-20,000	-20,000	50,000	20,000	50,000	-20,000	-20,000	-20,000	50,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	10,000	20,000	20,000	15,000	20,000	7,000	7,000	7,000	10,000	30,000
PB-S	30,000	20,000	20,000	30,000	30,000	30,000	30,000	20,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	5,000	10,000	5,000	5,000	-5,000	-5,000	5,000	5,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	500,000	300,000	300,000	300,000	300,000	200,000	300,000	200,000	-100,000	100,000
V-S	70,000	70,000	150,000	150,000	70,000	30,000	50,000	70,000	30,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	-10,000	-10,000	10,000	10,000	10,000	-10,000	-10,000	-10,000	20,000	10,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	300,000	200,000	300,000	700,000	300,000	200,000	300,000	500,000	300,000	100,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB755 JL0609	IAB756 JL0613	IAB757 JL0614	IAB758 JL0617	IAB759 JL0618	IAB760 JL0622	IAB761 JL0624	IAB762 GG0364	IAB763 GG0405	IAB764 GG0448
PARAMETROS ANALITICOS										
FE-S %	3,000	5,000	5,000	7,000	5,000	1,500	2,000	3,000	2,000	0,500
MG-S %	0,500	1,000	0,700	0,700	0,700	0,500	0,300	0,500	1,500	0,070
CA-S %	0,070	1,000	0,500	1,000	0,300	0,500	0,200	0,500	0,700	0,100
TI-S %	0,500	0,500	0,300	1,000	0,500	0,300	1,000	0,500	0,200	0,300
MN-S	700,000	700,000	1000,000	1500,000	1000,000	500,000	700,000	500,000	500,000	200,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	500,000	-10,000	100,000	100,000	100,000	150,000	150,000	10,000	-10,000	-10,000
BA-S	300,000	700,000	1500,000	1000,000	700,000	2000,000	700,000	1000,000	1000,000	500,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	10,000	10,000	10,000	10,000	10,000	-5,000	5,000	10,000	15,000	10,000
CR-S	50,000	100,000	70,000	100,000	70,000	15,000	15,000	100,000	200,000	10,000
CU-S	20,000	20,000	15,000	20,000	30,000	5,000	-5,000	15,000	5,000	-5,000
LA-S	20,000	20,000	20,000	20,000	20,000	-20,000	30,000	20,000	20,000	100,000
MC-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	10,000	10,000	10,000	10,000	30,000	10,000	10,000	10,000
NI-S	20,000	20,000	20,000	30,000	20,000	5,000	5,000	30,000	150,000	-5,000
PB-S	50,000	30,000	30,000	30,000	50,000	30,000	30,000	20,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	10,000	10,000	15,000	10,000	-5,000	5,000	10,000	5,000	NAC DET.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	100,000	500,000	300,000	500,000	200,000	300,000	200,000	200,000	150,000	NAC DET.
V-S	50,000	70,000	70,000	150,000	70,000	20,000	30,000	70,000	50,000	10,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	10,000	10,000	10,000	10,000	10,000	-10,000	10,000	10,000	10,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	100,000	200,000	300,000	500,000	150,000	100,000	+1000,000	300,000	200,000	300,000

CPRM CALESTRO GEOQUIMICO

23.01.75 FLA. 131

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB924	IAB925	IAB926	IAB927	IAB928	IAB929	IAB930	IAB931	IAB932	IAB933
NUM. CAMPO	AM0264	AM0265	AM0269	AM0271	AM0273	AM0274	AM0280	AM0286	AM0287	AM0293
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBV4	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	3	3	3	3	3	3	3	3	3	3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 45 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0118	0121	0030	0030	0062	0074	0440	0044	0051	0091
ORDENADA - Y	0163	0160	0164	0193	0235	0218	0470	0233	0267	0320
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FORTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	M	M	M	M	M	M	M	M	M	M
ID. GEOLG.	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	C	C	C	C	C	C	C	C	C	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	560	555	530	425	370	365	220	340	310	420
PROF. AMOST.	0,30	0,40	0,40	0,40	0,30	0,30	0,35	0,30	0,35	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENF.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCOR.										
LARGURA RIC	2	5	5	3	4	2	3	3	5	5
PROFUND. RIC	0,4	0,5	0,5	0,4	0,5	0,4	0,4	0,4	0,5	0,4
VELCC. CORR.	3	2	4	3	3	3	3	3	4	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	2	1	2	1	1	1	2	1
TURB. AGUA	1	1	2	2	2	2	1	2	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VOL. ORIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	16111	3511	25111	4411	2521	2521	3511	4411	3511	3511
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BICTICC										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB924 AMO264	IAB925 AMO265	IAB926 AMC269	IAB927 AMC271	IAB928 AMO273	IAB929 AMO274	IAB930 AMO280	IAB931 AMO286	IAB932 AMO287	IAB933 AMO293
PARAMETROS ANALITICOS										
FE-S %	3,000	7,000	5,000	3,000	2,000	2,000	2,000	3,000	5,000	3,000
MG-S %	0,700	0,700	0,700	1,500	1,000	0,700	1,000	0,700	0,700	0,700
CA-S %	0,500	0,700	1,000	0,500	0,500	0,500	0,700	0,200	0,150	0,200
TI-S %	1,000	+1,000	+1,000	0,700	0,500	0,500	0,500	0,700	0,700	0,500
MN-S	1500,000	300,000	3000,000	1000,000	1500,000	1500,000	1000,000	1000,000	2000,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	500,000	20,000	30,000	100,000	200,000	100,000	100,000	200,000	500,000	500,000
BA-S	1000,000	1500,000	1000,000	1500,000	1000,000	1000,000	1500,000	1000,000	700,000	700,000
BE-S	1,000	-1,000	-1,000	1,500	1,500	1,000	1,000	1,500	1,500	2,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	30,000	20,000	15,000	15,000	15,000	15,000	15,000	20,000	15,000
CR-S	200,000	700,000	300,000	100,000	70,000	100,000	200,000	150,000	100,000	100,000
CU-S	15,000	INTERFER.	INTERFER.	20,000	20,000	15,000	10,000	50,000	50,000	30,000
LA-S	70,000	50,000	70,000	150,000	70,000	100,000	50,000	30,000	100,000	30,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	10,000	15,000	15,000	15,000	15,000	15,000
NI-S	30,000	150,000	100,000	30,000	30,000	20,000	150,000	30,000	30,000	30,000
PB-S	15,000	20,000	20,000	20,000	20,000	15,000	15,000	20,000	20,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	15,000	10,000	10,000	INTERFER.	15,000	15,000	15,000
SN-S	NAO DET.	INTERFER.	INTERFER.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.
SR-S	100,000	150,000	300,000	NAO DET.	100,000	100,000	300,000	NAO DET.	NAC DET.	NAO DET.
V-S	70,000	150,000	100,000	100,000	70,000	70,000	70,000	150,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	30,000	30,000	70,000	50,000	30,000	70,000	20,000	20,000	50,000	70,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
ZR-S	+1000,000	+1000,000	+1000,000	300,000	1000,000	1000,000	+1000,000	700,000	1000,000	700,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB934 AM0294	IAB935 AM0299	IAB936 AM0302	IAB937 AM0306	IAB938 AM0312	IAB939 AM0315	IAB940 AM0317	IAB941 AM0318	IAB942 AM0319	IAB943 AM0321
PARAMETROS ANALITICOS										
FE-S %	2,000	2,000	2,000	5,000	1,500	2,000	2,000	2,000	1,500	2,000
MG-S %	0,500	0,500	0,300	0,700	0,500	0,500	0,500	0,300	0,200	0,300
CA-S %	0,070	0,150	0,200	0,500	0,150	0,070	0,150	0,070	0,070	0,050
TI-S %	0,500	1,000	+1,000	0,500	0,500	0,700	0,500	1,000	0,700	0,700
MN-S	1500,000	3000,000	2000,000	1000,000	1000,000	1000,000	1000,000	700,000	500,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	500,000	300,000	200,000	50,000	200,000	200,000	300,000	500,000	500,000	300,000
BA-S	500,000	700,000	700,000	2000,000	700,000	700,000	700,000	500,000	300,000	300,000
BE-S	1,500	2,000	1,000	1,500	1,500	2,000	1,500	1,500	1,000	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	10,000	15,000	15,000	20,000	10,000	15,000	15,000	15,000	10,000	15,000
CR-S	70,000	70,000	150,000	300,000	100,000	70,000	150,000	70,000	50,000	70,000
CU-S	15,000	20,000	INTERFER.	30,000	10,000	15,000	15,000	15,000	10,000	15,000
LA-S	70,000	20,000	NAC DET.	70,000	70,000	70,000	70,000	100,000	150,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
NI-S	20,000	30,000	30,000	70,000	15,000	30,000	30,000	30,000	15,000	30,000
PB-S	15,000	15,000	10,000	50,000	10,000	15,000	15,000	15,000	-10,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	10,000	15,000	10,000	15,000	15,000	15,000	INTERFER.	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	-100,000	300,000	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
V-S	50,000	70,000	70,000	70,000	50,000	100,000	100,000	100,000	70,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	15,000	20,000	30,000	30,000	30,000	30,000	30,000	100,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	700,000	300,000	700,000	700,000	1000,000	700,000	300,000	500,000	+1000,000	300,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB944 AM0324	IAB945 AM0325	IAB946 AM0327	IAB947 AM0330	IAB948 AM0334	IAB949 AM0339	IAB950 AM0341	IAB951 FB0223	IAB952 FB0224	IAB953 FB0230
PARAMETROS ANALITICOS										
FE-S	2,000	3,000	3,000	5,000	3,000	0,700	5,000	2,000	3,000	3,000
MG-S	0,300	0,500	0,500	0,500	0,700	0,200	0,500	0,700	0,500	0,500
CA-S	0,070	0,150	0,070	0,100	0,300	1,000	0,200	0,200	0,200	0,150
TI-S	0,700	0,700	1,000	1,000	1,000	0,200	1,000	0,700	0,500	0,700
MN-S	700,000	1000,000	700,000	1000,000	700,000	300,000	1000,000	2000,000	1500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	500,000	200,000	200,000	200,000	150,000	20,000	200,000	300,000	500,000	200,000
BA-S	700,000	1000,000	700,000	1000,000	1000,000	200,000	700,000	700,000	700,000	1000,000
BE-S	1,500	1,500	1,500	1,500	1,500	-1,000	1,500	1,500	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.
CD-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	15,000	15,000	30,000	20,000	10,000	20,000	20,000	20,000	20,000
CR-S	150,000	150,000	100,000	150,000	150,000	100,000	150,000	100,000	150,000	150,000
CU-S	15,000	15,000	15,000	50,000	30,000	10,000	30,000	20,000	20,000	30,000
LA-S	100,000	30,000	NAC DET.	30,000	20,000	20,000	20,000	70,000	30,000	20,000
MC-S	NAO DET.	-5,000	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	15,000	-10,000	20,000	15,000	10,000	15,000
NI-S	30,000	30,000	30,000	50,000	30,000	10,000	50,000	30,000	30,000	30,000
PB-S	15,000	15,000	15,000	50,000	30,000	NAC DET.	30,000	30,000	30,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	15,000	15,000	15,000	20,000	15,000	NAO DET.	15,000	15,000	15,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	100,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
V-S	100,000	100,000	100,000	150,000	100,000	30,000	100,000	100,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	70,000	20,000	15,000	20,000	30,000	-10,000	20,000	30,000	30,000	20,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	300,000	300,000	300,000	70,000	500,000	700,000	500,000	500,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 137

S E A G

PROJETC - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - APEA TOTAL

NUM. LAB.	IAB954	IAB955	IAB956	IAB957	IAB958	IAB959	IAB960	IAB961	IAB962	IAB963
NUM. CAMPO	F80234	F80236	F80241	F80246	F80255	F80257	F80263	F80266	F80267	F80275
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XIII	SG22XDII	SG22XDII	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	1	11	11	3	4	3	3	3	3	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	25 15 00 S	25 15 00 S	25 15 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 15 00	48 30 00	48 30 00	48 30 00	48 30 00	48 15 00
ABCISSA - X	0377	0365	0443	0367	0023	0495	0410	0457	0458	0022
ORDENADA - Y	0510	0499	0532	0285	0341	0356	0390	0402	0408	0442
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	B	B	C	C	C	C	A	C	C	C
ID. GEOLCG.	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	C	C	C	C	A	C	C	A	A	A
SIT. TOPOG.	B	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	605	620	618	670	280	630	700	550	550	140
PROF. AMOST.	0,20	0,20	0,15	0,30	0,50	0,30	0,20	0,20	0,20	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIO	2	3	3	3	5	2	2	2	2	3
PRCFUNC. RIO	0,4	0,3	0,3	0,4	0,5	0,2	0,2	0,2	0,2	0,3
VELCC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	2	2	2	2	2	1	1	1	1
TURB. AGUA	1	0	0	0	0	0	0	0	0	0
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ABREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	1531	1531	2521	2521	1521	262	163	163	163	172
COR SEC./SL.										
HGRIZ. SCLC										
TIPO SCLC										
AMP. BIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB954 FB0234	IAB955 FB0236	IAB956 FBC241	IAB957 FBC246	IAB958 FB0255	IAB959 FB0257	IAB960 FB0263	IAB961 FB0266	IAB962 FB0267	IAB963 FB0275
PARAMETROS ANALITICOS										
FE-S %	3,000	15,000	10,000	3,000	3,000	10,000	3,000	5,000	5,000	3,000
MG-S %	0,700	0,200	0,300	0,300	1,500	1,000	1,000	0,700	0,700	0,700
CA-S %	0,200	0,050	0,150	0,200	2,000	0,200	0,150	0,150	0,150	0,150
TI-S %	+1,000	+1,000	+1,000	+1,000	0,300	1,000	0,500	1,000	0,700	1,000
MN-S	3000,000	+5000,000	+5000,000	1000,000	700,000	1500,000	700,000	1000,000	1500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	-10,000	NAO DET.	-10,000	NAO DET.	150,000	200,000	200,000	500,000	300,000	300,000
BA-S	1000,000	1000,000	1000,000	1500,000	1500,000	1000,000	1000,000	500,000	700,000	1000,000
BE-S	-1,000	NAO DET.	-1,000	-1,000	-1,000	1,500	1,000	1,000	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	30,000	20,000	20,000	15,000	15,000	30,000	20,000	15,000	30,000	20,000
CR-S	500,000	5000,000	1500,000	300,000	150,000	150,000	100,000	150,000	150,000	100,000
CU-S	INTERFER.	INTERFER.	INTERFER.	15,000	15,000	50,000	15,000	30,000	20,000	20,000
LA-S	300,000	70,000	30,000	20,000	100,000	150,000	100,000	100,000	150,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	20,000	15,000	15,000	10,000	20,000	10,000	15,000	15,000	15,000
NI-S	70,000	15,000	20,000	70,000	30,000	50,000	30,000	30,000	50,000	30,000
PB-S	70,000	20,000	30,000	30,000	50,000	70,000	50,000	30,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	INTERFER.	INTERFER.	10,000	15,000	20,000	10,000	15,000	15,000	15,000
SN-S	-10,000	INTERFER.	INTERFER.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	150,000	NAO DET.	100,000	200,000	200,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	100,000
V-S	100,000	200,000	150,000	70,000	70,000	100,000	70,000	150,000	70,000	150,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	20,000	30,000	15,000	200,000	70,000	50,000	70,000	70,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	700,000	700,000	500,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 139

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB964	IAB965	IAB966	IAB967	IAB968	IAB969	IAB970	IAB971	IAB972	IAB973
NUM. CAMPO	F80276	F80277	F80283	F80284	F80300	JR0395	JR0397	JR0399	JR0400	JR0401
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	4	4	4	4	3	1	1	1	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0072	0085	0001	0008	0257	0411	0373	0374	0023	0051
ORDENADA - Y	0503	0494	0507	0514	0155	0497	0458	0450	0463	0473
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	A	B	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	N	N	D	N	N
ID. GEOLCG.	AM	AM	AM	AM	AM	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	C	B	B	B	A	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	A	C	C	C	C
ALTITUDE	50	50	190	190	640	118	108	118	57	65
PRCF. AMOST.	0,20	0,40	0,15	0,15	0,30	0,20	0,20	0,10	0,10	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	7	1	1	6	3	3	3	2	2
PROFUND. RIO	0,2	0,7	0,2	0,2	0,4	0,4	0,4	0,3	0,3	0,2
VELCC. CORR.	3	3	3	3	3	3	3	3	2	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	2	1	2	1	1	1
TURE: AGUA	0	0	0	0	0	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	D	C	C
COR AGUA	A	A	A	A	I	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	A	A	A	A	A
VCL. ORIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	1621	172	163	163	631	3313	63 1	3412	24121	24 31
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BIOTICO										

S E A G

PROJETO - SLDELPA

CENTRO DE COSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB964 FB0276	IAB965 FB0277	IAB966 FB0283	IAB967 FB0284	IAB968 FB0300	IAB969 JR0395	IAB970 JR0397	IAB971 JR0399	IAB972 JR0400	IAB973 JR0401
PARAMETROS ANALITICOS										
FE-S %	5,000	10,000	5,000	7,000	3,000	3,000	3,000	3,000	5,000	5,000
MG-S %	0,700	0,700	0,700	0,700	0,300	0,500	0,300	0,300	0,150	0,300
CA-S %	0,150	1,000	0,150	0,100	0,150	-0,050	0,050	0,050	-0,050	0,150
TI-S %	1,000	+1,000	0,700	1,000	+1,000	0,700	0,500	0,700	0,500	0,500
MN-S	1500,000	1500,000	1000,000	1000,000	3000,000	2000,000	1500,000	2000,000	+5000,000	5000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
B-S	300,000	200,000	150,000	300,000	150,000	150,000	100,000	100,000	70,000	70,000
BA-S	1000,000	1000,000	1000,000	1000,000	1000,000	1000,000	700,000	500,000	700,000	700,000
BE-S	1,500	1,000	1,500	1,000	-1,000	2,000	2,000	2,000	1,500	1,500
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CC-S	30,000	30,000	20,000	30,000	15,000	30,000	15,000	20,000	30,000	30,000
CR-S	150,000	300,000	150,000	150,000	700,000	100,000	150,000	100,000	70,000	70,000
CU-S	20,000	20,000	20,000	50,000	INTERFER.	20,000	20,000	20,000	20,000	70,000
LA-S	50,000	70,000	20,000	50,000	150,000	20,000	50,000	20,000	70,000	50,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	15,000	10,000	15,000	15,000	15,000	15,000
NI-S	50,000	50,000	30,000	50,000	20,000	30,000	30,000	30,000	50,000	30,000
PB-S	30,000	30,000	30,000	50,000	30,000	30,000	30,000	30,000	50,000	100,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	15,000	10,000	20,000	15,000	INTERFER.	15,000	15,000	20,000	15,000	15,000
SN-S	NAO DET.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	-10,000	-10,000	INTERFER.	INTERFER.
SR-S	NAO DET.	300,000	100,000	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	100,000
V-S	150,000	150,000	150,000	150,000	70,000	100,000	100,000	150,000	100,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	20,000	50,000	20,000	30,000	50,000	30,000	30,000	30,000	50,000	50,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	500,000	+1000,000	300,000	700,000	+1000,000	200,000	200,000	200,000	500,000	500,000

CPRM CADAstro GEOQUIMICO

23.01.75

FLA. 141

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB974	IAB975	IAB976	IAB977	IAB978	IAB979	IAB980	IAB981	IAB982	IAB983
NUM. CAMPO	JR0403	JR0405	JR0406	JR0409	JR0410	JR0412	JR0414	JR0415	JR0416	JR0419
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	1	1	1	1	1	1	1	13	1	1
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 45 00 S	24 45 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0126	0092	0026	0035	0240	0251	0284	0301	0284	0096
ORDENADA - Y	0346	0358	0317	0301	0405	0451	0540	0014	0540	0301
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	A	A	A	A	A	A	A	A	A	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	N	N	N	N	N	N	N	N	N	N
ID. GEOLCG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	C	C	C	C	C	C	C	C	C	C	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C	C
ALTITUDE	105	128	155	196	30	42	92	125	115	139	
PROF. AMOST.	0,10	0,30	0,30	0,40	0,10	0,20	0,20	0,20	0,20	0,40	
FORMA IGNEA											
SIT. ESTRUT.											
MATRIZ PREC.											
GRAU INTEMP.											
TIPO ALTER.											
TIPO MINER.											
DEP. COCCO.											
LARGURA RIC	2	4	4	5	3	2	3	5	2	4	
PROFUND. RIC	0,3	0,5	0,3	0,7	0,4	0,4	0,4	0,5	0,4	0,5	
VELCC. CORR.	3	3	3	3	3	3	3	3	3	2	
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2	
AREA DRENAG.	1	1	2	2	1	1	1	2	1	2	
TURB. AGUA	1	1	1	1	1	1	1	1	1	1	
POS. COLETA	C	C	C	C	C	C	C	C	C	C	
COR AGUA	A	A	A	A	A	A	A	A	A	A	
GRAU ARRED.	A	A	A	A	A	A	A	A	A	A	
VCL. ORIGIN.											
PESC. COCCO.											
GRANULOMET.											
TEXT. SEDIM.	15 31	43 21	34111	25111	4411	43111	33121	4312	53 11	27 1	
COR SEC./SL.											
HORIZ. SCLC											
TIPO SCLC											
AMB. BIOTICO											

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB974 JRO403	IAB975 JRO405	IAB976 JRO406	IAB977 JRO409	IAB978 JRO410	IAB979 JRO412	IAB980 JRO414	IAB981 JRO415	IAB982 JRO416	IAB983 JRO419
PARAMETROS ANALITICOS										
FE-S %	3,000	7,000	3,000	5,000	3,000	3,000	5,000	5,000	5,000	3,000
MG-S %	0,300	0,700	0,300	0,300	0,300	0,150	0,300	0,500	0,150	0,300
CA-S %	0,150	0,200	0,050	0,070	0,050	-0,050	0,150	0,200	-0,050	0,070
TI-S %	+1,000	0,700	1,000	1,000	1,000	0,300	+1,000	1,000	0,500	1,000
MN-S	1500,000	3000,000	3000,000	2000,000	2000,000	3000,000	2000,000	3000,000	3000,000	2000,000
AG-S	NAO DET.	0,500	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
B-S	100,000	70,000	70,000	100,000	100,000	100,000	70,000	50,000	150,000	150,000
BA-S	300,000	700,000	700,000	500,000	500,000	700,000	700,000	700,000	700,000	500,000
BE-S	1,000	1,500	1,500	1,500	1,500	2,000	1,500	3,000	2,000	1,500
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	50,000	30,000	20,000	15,000	15,000	30,000	30,000	20,000	15,000
CR-S	150,000	500,000	150,000	100,000	100,000	100,000	150,000	150,000	150,000	100,000
CU-S	INTERFER.	100,000	20,000	30,000	20,000	20,000	INTERFER.	70,000	50,000	30,000
LA-S	NAO DET.	30,000	50,000	30,000	20,000	30,000	20,000	20,000	50,000	30,000
MG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	-5,000	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
NI-S	30,000	150,000	50,000	30,000	30,000	30,000	70,000	100,000	50,000	30,000
PB-S	10,000	70,000	50,000	15,000	15,000	30,000	50,000	70,000	30,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	30,000	20,000	20,000	20,000	15,000	30,000	20,000	20,000	15,000
SN-S	-10,000	INTERFER.	-10,000	INTERFER.	NAO DET.	NAC DET.	INTERFER.	INTERFER.	INTERFER.	-10,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
V-S	200,000	300,000	150,000	150,000	150,000	100,000	150,000	150,000	100,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	30,000	30,000	50,000	50,000	30,000	20,000	50,000	30,000	50,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	200,000	150,000	200,000	200,000	200,000	150,000	500,000	700,000	150,000	200,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 143

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB984	IAB985	IAB986	IAB987	IAB988	IAB989	IAB990	IAB991	IAB992	IAB993
NUM. CAMFU	JR0420	JR0421	JR0422	JR0423	JR0425	JR0426	JR0428	JR0429	JR0432	JR0433
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBII	SG22XBII
BASE CART.	1	1	1	1	1	1	1	1	13	13
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 45 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0103	0191	0195	0325	0158	0199	0086	0064	0083	0097
ORDENADA - Y	0287	0317	0433	0352	0494	0500	0518	0530	0053	0062
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	A	A	A	A	A	A	A	A	A	A
FCNTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	N	N	N	N	N	N	N	N	N	N
ID. GEOLG.	AS	AS	AS	AS	AS	AS	AS	AS	AS	XX
MAT. COLET.	ALUC	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	C	A	A	A	A	A	A	A	A	A
SIT. TCPCG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	154	58	64	60	76	100	75	72	70	152
PROF. AMOST.	0,50	0,20	0,10	0,30	0,50	0,20	0,10	0,20	0,40	0,40
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. CCCR.										
LARGURA RIC	3	3	2	3	4	3	2	2	2	8
PROFUND. RIC	0,6	0,4	0,3	0,5	0,8	0,4	0,3	0,3	0,5	0,6
VELCC. CORK.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	1	2	2	2	1	1	1	3
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
PCS. CCLETA	C	C	D	D	D	C	D	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	A	A	A	A	A	A	A	A	A	A
VOL. GRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	72 1	25111	44 2	4411	4411	2611	81 1	33121	43111	52111
COR SED./SL.										
HCFIZ. SOLC										
TIPC SOLO										
AMB. BICTICC										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB984 JR0420	IAB985 JR0421	IAB986 JR0422	IAB987 JR0423	IAB988 JR0425	IAB989 JR0426	IAB990 JR0428	IAB991 JR0429	IAB992 JR0432	IAB993 JR0433
PARAMETROS ANALITICOS										
FE-S %	7,000	3,000	5,000	2,000	2,000	3,000	3,000	7,000	3,000	5,000
MG-S %	0,300	0,200	0,300	0,150	0,150	0,150	0,100	0,300	0,150	0,010
CA-S %	0,070	0,100	0,200	0,050	-0,050	0,050	-0,050	0,200	-0,050	0,070
TI-S %	0,700	0,500	1,000	0,700	0,500	0,700	0,300	1,000	0,500	+1,000
MN-S	1000,000	1500,000	3000,000	2000,000	1000,000	1500,000	3000,000	3000,000	+5000,000	5000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	150,000	100,000	100,000	100,000	100,000	150,000	100,000	50,000	70,000	50,000
BA-S	500,000	500,000	500,000	500,000	700,000	700,000	700,000	700,000	700,000	300,000
BE-S	1,500	1,500	1,000	2,000	2,000	1,500	1,500	1,500	2,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CR-S	15,000	15,000	30,000	15,000	15,000	15,000	20,000	50,000	20,000	7,000
CU-S	150,000	70,000	150,000	70,000	150,000	150,000	100,000	150,000	50,000	10,000
LA-S	20,000	20,000	100,000	20,000	15,000	20,000	15,000	70,000	20,000	5,000
MO-S	20,000	NAO DET.	NAO DET.	20,000	50,000	30,000	50,000	50,000	20,000	30,000
NB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NI-S	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	20,000
PI-S	50,000	30,000	100,000	30,000	30,000	30,000	30,000	100,000	30,000	5,000
PO-S	20,000	10,000	70,000	50,000	15,000	50,000	30,000	50,000	20,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	15,000	30,000	15,000	15,000	20,000	15,000	30,000	10,000	5,000
SN-S	INTERFER.	NAO DET.	INTERFER.	NAC DET.	NAO DET.	-10,000	NAO DET.	INTERFER.	-10,000	20,000
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
V-S	100,000	70,000	300,000	100,000	70,000	100,000	70,000	200,000	70,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	50,000	20,000	30,000	30,000	30,000	30,000	20,000	50,000	30,000	70,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	200,000	200,000	150,000	300,000	500,000	300,000	200,000	200,000	1000,000	+1000,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 145

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 9141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAB994	IAB995	IAB996	IAB997	IAB998	IAB999	IAC001	IAC002	IAC003	IAC004
NUM. CAMPO	JR0434	JR0435	JRC436	JR0439	JR0440	JR0442	JR0448	JR0450	JRC453	JR0454
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBVI	SG22XBII	SG22XBII	SG22XBII
BASE CART.	I3	I3	I3	I3	I3	I3	1	I3	I3	I3
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0094	0120	0144	0182	0134	0040	0400	0403	0381	0372
ORDENADA - Y	0104	0150	0152	0209	0183	0070	0547	0032	0104	0197
UTM - LAT.										
UTM - LONG.										
PER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	A	A	A	A	A	A	A	B	B	A
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	A	N	D	D	N	A	N	N	N	D
ID. GEOLCG.	XX	AS	XX	XX	AS	XX	AS	AS	AS	CI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICSICACE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	C	C	C	C	A	A	A	A	C
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	170	185	200	319	250	140	80	105	115	496
PROF. AMOST.	0,10	0,20	0,40	0,40	0,30	0,10	0,20	0,30	0,30	0,40
FCRMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCOR.										
LARGURA RIO	2	3	5	8	4	4	4	2	3	3
PROFUND. RIO	0,3	0,4	0,6	0,6	0,5	0,4	0,4	0,4	0,5	0,6
VELCC. CCRR.	3	3	4	4	3	3	2	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CFENAG.	1	1	2	2	2	2	1	1	1	2
TURB. AGUA	1	1	1	1	1	1	1	1	1	1
POS. CCLETA	D	C	D	D	E	E	C	C	C	C
CCR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	A	A	A	A	A	A	A	A	A	A
VOL. CRIGIA.										
PESO CCNC.										
GRANULMET.										
TEXT. SEDIM.	7/11	23 21	1711	3511	43111	31231	3412		5221	1711
CCR SED./SL.										
HORIZ. SCLC										
TIPO SCLC										
AME. BIOTICO										

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAB994 JR0434	IAB995 JR0435	IAB996 JRC436	IAB997 JR0439	IAB998 JR0440	IAB999 JR0442	IAC001 JR0448	IAC002 JR0450	IAC003 JR0453	IAC004 JR0454
PARAMETROS ANALITICOS										
FE-S %	10,000	10,000	3,000	5,000	15,000	10,000	5,000	5,000	2,000	10,000
MG-S %	0,700	0,700	0,150	0,200	0,500	0,700	0,300	0,300	0,150	0,200
CA-S %	1,000	1,000	0,100	0,070	0,300	1,000	-0,050	0,050	0,070	0,100
TI-S %	1,000	0,700	+1,000	+1,000	+1,000	1,000	0,500	+1,000	+1,000	+1,000
MN-S	2000,000	1500,000	2000,000	1500,000	1500,000	1000,000	2000,000	1500,000	1000,000	3000,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	10,000	10,000	20,000	150,000	100,000	20,000	100,000	200,000	100,000	20,000
BA-S	200,000	200,000	500,000	300,000	300,000	300,000	500,000	300,000	300,000	500,000
BE-S	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	2,000	3,000	2,000	-1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	20,000	30,000	7,000	10,000	20,000	50,000	10,000	10,000	5,000	10,000
CR-S	100,000	150,000	10,000	100,000	100,000	150,000	50,000	50,000	10,000	10,000
CU-S	100,000	100,000	5,000	30,000	50,000	70,000	20,000	30,000	10,000	10,000
LA-S	-20,000	-20,000	20,000	50,000	20,000	-20,000	50,000	20,000	20,000	-20,000
MG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	10,000	10,000	15,000	15,000	15,000	15,000	10,000	10,000	15,000	20,000
NI-S	50,000	100,000	10,000	30,000	50,000	100,000	30,000	30,000	15,000	10,000
PB-S	10,000	15,000	15,000	20,000	200,000	20,000	20,000	50,000	20,000	20,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	20,000	30,000	10,000	15,000	20,000	30,000	10,000	10,000	7,000	10,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	-100,000	-100,000	-100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	-100,000
V-S	300,000	300,000	70,000	100,000	300,000	200,000	100,000	100,000	100,000	150,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	20,000	30,000	20,000	50,000	30,000	20,000	20,000	20,000	20,000	30,000
ZN-S	-200,000	NAC DET.	NAC DET.	NAC DET.	INTERFER.	-200,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	100,000	150,000	+1000,000	700,000	200,000	200,000	150,000	200,000	1000,000	700,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 147

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC006	IAC007	IAC008	IAC009	IAC010	IAC011	IAC012	IAC013	IAC014	IAC015
NUM. CAMPO	IP0647	IP0650	IP0659	IP0661	IP0689	IP0691	IP0695	IPC696	IP0699	IP0700
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	4	4	4	4	4	4	4	4	4	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00	48 45 00
ABCISSA - X	0468	0395	0468	0505	0391	0392	0498	0502	0503	0487
ORDENADA - Y	0364	0304	0357	0412	0444	0424	0355	0231	0138	0091
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	S	S	S	S	S	S	S	S	S	S
ID. GEOLÓG.	CI	CI	CI	CI	AS	AS	AS	AS	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	B	B	B	B
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	410	400	530	550	605	605	40	40	120	40
PROF. AMOST.	0,20	0,25	0,25	0,40	0,20	0,50	0,30	0,35	0,30	0,25
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	3	1	1	2	1	3	3	2	1	1
PROFUND. RIO	0,2	0,2	0,2	0,4	0,2	0,4	0,3	0,3	0,2	0,2
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	1	2	2	2	2	1
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	2	2	2	2	1	1	2	2	2
PGS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGUA	A	A	A	D	A	D	A	D	A	A
GRAU ARPEC.	B	B	B	B	B	B	B	B	B	B
VEL. CRIGIN.										
PESQ CENC.										
GRANULOMET.										
TEXT. SEDIM.	6111	16111	15121	5221	14131	14221	14131	24121	15211	15121
CCR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC006 IP0647	IAC007 IP0650	IAC008 IPC659	IAC009 IP0661	IAC010 IP0689	IAC011 IP0691	IAC012 IP0695	IACC13 IP0696	IACC14 IPC699	IAC015 IP0700
PARAMETROS ANALITICOS										
FE-S %	3,000	3,000	3,000	3,000	10,000	3,000	3,000	5,000	3,000	5,000
MG-S %	0,200	0,700	0,700	1,000	0,500	0,300	0,200	0,500	0,700	0,500
CA-S %	0,100	0,150	0,200	0,300	0,500	0,150	0,300	0,200	0,700	0,200
TI-S %	+1,000	0,500	0,700	+1,000	+1,000	+1,000	0,700	0,700	0,500	0,700
MN-S	1500,000	1500,000	3000,000	2000,000	3000,000	1500,000	1000,000	1500,000	1500,000	5000,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	10,000	NAC DET.	-10,000	20,000	10,000	20,000	70,000	70,000	70,000	30,000
BA-S	300,000	1000,000	300,000	300,000	300,000	200,000	500,000	300,000	300,000	500,000
BE-S	-1,000	2,000	1,000	1,000	-1,000	-1,000	1,000	1,000	1,000	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	10,000	10,000	10,000	20,000	50,000	20,000	10,000	30,000	20,000	30,000
CR-S	50,000	70,000	50,000	50,000	70,000	50,000	70,000	100,000	150,000	100,000
CU-S	10,000	10,000	20,000	50,000	100,000	50,000	20,000	50,000	20,000	70,000
LA-S	20,000	-20,000	NAC DET.	20,000	20,000	NAC DET.	20,000	20,000	-20,000	20,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	15,000	10,000	15,000	15,000	15,000	15,000	10,000	10,000	10,000	15,000
NI-S	15,000	20,000	20,000	20,000	50,000	20,000	20,000	70,000	50,000	50,000
PB-S	15,000	30,000	20,000	15,000	10,000	-10,000	15,000	20,000	15,000	20,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	7,000	10,000	10,000	10,000	20,000	10,000	10,000	20,000	20,000	20,000
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	100,000	200,000	-100,000	100,000	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
V-S	100,000	100,000	100,000	200,000	300,000	150,000	150,000	150,000	100,000	150,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	10,000	10,000	20,000	20,000	20,000	20,000	20,000	20,000	15,000	20,000
ZN-S	-200,000	-200,000	NAC DET.	NAC DET.	INTERFER.	NAC DET.	NAC DET.	-200,000	-200,000	-200,000
ZR-S	200,000	200,000	500,000	200,000	150,000	200,000	200,000	150,000	100,000	150,000

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC016 IP0702	IAC017 IP0704	IACC1E IPC7C5	IACC19 IP0706	IAC020 IP0711	IACC21 IP0712	IAC022 IP0713	IACC23 IPC714	IACC24 GG0492	IAC025 GG0493
PARAMETROS ANALITICOS										
FE-S %	3,000	15,000	10,000	10,000	10,000	10,000	10,000	10,000	5,000	10,000
MG-S %	0,200	1,000	0,500	0,500	0,300	0,500	0,500	0,500	1,000	1,000
CA-S %	0,100	1,000	0,300	0,200	0,300	0,500	0,200	0,700	1,000	1,000
TI-S %	1,000	1,000	1,000	1,000	+1,000	+1,000	+1,000	+1,000	0,700	1,000
MN-S	1500,000	3000,000	2000,000	2000,000	2000,000	1500,000	3000,000	3000,000	1000,000	1000,000
AG-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AS-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
AU-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
B-S	20,000	20,000	70,000	100,000	20,000	70,000	70,000	70,000	50,000	50,000
BA-S	300,000	300,000	700,000	700,000	1000,000	1000,000	700,000	500,000	1000,000	1000,000
BE-S	-1,000	-1,000	1,000	1,000	-1,000	1,000	-1,000	-1,000	1,000	1,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CD-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	20,000	50,000	30,000	30,000	20,000	20,000	20,000	30,000	20,000	20,000
CR-S	100,000	500,000	150,000	150,000	100,000	100,000	20,000	100,000	100,000	150,000
CU-S	50,000	100,000	70,000	70,000	50,000	70,000	50,000	100,000	70,000	15,000
LA-S	20,000	NAD DET.	50,000	50,000	NAD DET.	NAD DET.	70,000	20,000	70,000	20,000
MO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
NB-S	10,000	10,000	10,000	10,000	15,000	10,000	20,000	10,000	10,000	10,000
NI-S	50,000	150,000	70,000	70,000	20,000	50,000	15,000	70,000	70,000	50,000
PB-S	10,000	70,000	30,000	20,000	30,000	30,000	50,000	30,000	20,000	20,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SC-S	20,000	30,000	20,000	30,000	15,000	20,000	15,000	30,000	15,000	15,000
SN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SR-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	300,000	200,000	-100,000	NAD DET.	200,000	300,000
V-S	150,000	300,000	200,000	200,000	300,000	200,000	200,000	200,000	100,000	200,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	30,000	20,000	30,000	30,000	15,000	20,000	30,000	30,000	20,000	30,000
ZN-S	-200,000	-200,000	NAD DET.	-200,000	-200,000	-200,000	NAD DET.	NAD DET.	NAD DET.	NAD DET.
ZR-S	150,000	100,000	200,000	200,000	700,000	300,000	700,000	200,000	+1000,000	+1000,000

CPHM CALASTRO GEOQUIMICO 23.01.75 FLA. 151
 S E A G PROJETO - SLDLPA CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMANTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC026	IAC027	IACC28	IACC29	IAC030	IAC031	IAC032	IAC033	IACC34	IAC035
NUM. CAMPO	GG0497	GG0500	GG0501	GG0503	GG0505	GG0506	GG0509	GG0510	GG0512	GG0522
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XCII	SG22XCII	SG22XDII	SG22XDII	SG23VAII
BASE CART.	12	12	12	12	12	12	12	12	12	2
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	24 15 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	47 15 00
ABCISSA - X	0120	0120	0330	0350	0335	0280	0330	0324	0320	0465
ORDENADA - Y	0350	0403	0363	0186	0200	0232	0343	0292	0231	0281
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLOG.	AX	AX	AX	CS	CS	CS	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIICIDADE	A	A	C	A	A	A	A	A	A	B
TIPC VEGET.	F	C	B	B	B	B	B	B	B	B
SIT. TOPOG.	B	B	B	A	A	A	A	A	A	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	80	80	80	40	50	100	60	60	60	220
PROF. AMOST.	0,20	0,30	0,50	0,01	0,20	0,30	0,20	0,30	0,10	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCOR.										
LARGURA RIC	3	4	3	2	2	2	2	2	1	4
PROFUND. RIO	0,2	0,3	0,5	0,1	0,2	0,3	0,2	0,3	0,1	0,3
VELOC. CORR.	2	2	1	1	1	2	2	2	1	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	1	2	1	1	1	2	1	1	1	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU AQUEC.	C	C	B	B	B	B	B	B	B	B
VCL. FRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.	631	73	262	172	172	352	271	181	82	252
COR SEC./SL.										
HORIZ. SCLC										
TIPC SCLC										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC026 GG0497	IAC027 GG0500	IACC28 GG0501	IACC29 GG0503	IAC030 GG0505	IAC031 GG0506	IAC032 GG0509	IACC33 GG0510	IACC34 GG0512	IAC035 GG0522
PARAMETROS ANALITICOS										
FE-S %	15,000	5,000	2,000	5,000	10,000	3,000	10,000	5,000	5,000	5,000
MG-S %	1,000	1,000	0,100	0,200	0,300	0,200	0,500	0,200	0,300	0,500
CA-S %	1,000	1,000	0,050	0,050	-0,050	0,150	0,150	0,150	-0,050	0,050
TI-S %	0,700	0,700	+1,000	1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000
MN-S	700,000	700,000	2000,000	1000,000	1000,000	1000,000	2000,000	1500,000	700,000	500,000
AG-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	50,000	20,000	1000,000	100,000	200,000	20,000	20,000	20,000	500,000	200,000
BA-S	1000,000	1000,000	700,000	700,000	700,000	700,000	1000,000	1000,000	1000,000	500,000
BE-S	1,000	1,000	3,000	2,000	1,000	3,000	2,000	1,500	2,000	1,500
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	20,000	20,000	5,000	7,000	10,000	5,000	10,000	5,000	10,000	20,000
CR-S	200,000	200,000	10,000	10,000	70,000	10,000	70,000	10,000	20,000	100,000
CU-S	15,000	20,000	15,000	10,000	20,000	5,000	10,000	5,000	10,000	20,000
LA-S	20,000	50,000	150,000	150,000	200,000	70,000	150,000	70,000	700,000	100,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	15,000	15,000	20,000	15,000	30,000	20,000	20,000	20,000	15,000	15,000
NI-S	70,000	70,000	10,000	15,000	30,000	10,000	15,000	10,000	15,000	50,000
PB-S	20,000	30,000	20,000	50,000	30,000	50,000	50,000	30,000	70,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SC-S	20,000	15,000	5,000	15,000	15,000	10,000	15,000	10,000	10,000	20,000
SN-S	NAO DET.	-10,000	NAO DET.	NAC DET.	NAC DET.	10,000	INTERFER.	-10,000	15,000	-10,000
SR-S	300,000	200,000	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
V-S	200,000	150,000	30,000	50,000	100,000	30,000	50,000	30,000	50,000	150,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	30,000	30,000	200,000	150,000	500,000	100,000	70,000	70,000	500,000	200,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	500,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 153

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC036	IAC037	IACC38	IACC39	IAC040	IAC041	IAC042	IAC043	IACC44	IAC045
NUM. CAMPO	GG0523	GG0526	GG0528	GG0532	GG0537	GG0545	GG0547	GG0549	GG0550	GG0551
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBVI
BASE CART.	2	2	2	2	2	4	4	4	4	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0456	0410	0379	0350	0300	0248	0244	0208	0206	0199
ORDENADA - Y	0278	0260	0253	0245	0219	0019	0034	0046	0038	0043
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	A	A	A	A	A	A	A	A	A
TIPO VEGET.	B	B	B	B	B	B	B	B	B	B
SIT. TCPLG.	B	B	B	B	B	B	B	B	B	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	200	240	220	250	100	130	180	320	300	350
PROF. AMOST.	0,20	0,30	0,20	0,40	0,20	0,50	0,20	0,40	0,30	0,20
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIC	3	3	2	3	3	1	2	2	8	2
PROFUND. RIO	0,2	0,3	0,2	0,4	0,2	0,5	0,2	0,4	0,3	0,2
VELOC. CORR.	3	2	2	1	2	3	2	2	2	4
NIVEL AGUA	2	2	2	2	2	1	1	1	1	1
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	2	1	2	1	2	3	2	2	2	3
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	B	B	B
VCL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SMIIM.	202	202	181	75	121	271	271	3511	271	2422
CCR SEC./SL.										
HCSIZ, SCLC										
TIPC SCLC										
AMB. BILITICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC036 GG0523	IAC037 GG0526	IACC38 GG0528	IACC39 GG0532	IAC040 GG0537	IAC041 GG0545	IAC042 GG0547	IAC043 GG0549	IACC44 GG0550	IAC045 GG0551
PARAMETROS ANALITICOS										
FE-S %	5,000	5,000	5,000	3,000	5,000	5,000	5,000	10,000	5,000	5,000
MG-S %	0,300	0,700	0,500	0,300	0,500	0,700	0,700	0,300	0,300	0,200
CA-S %	0,050	0,050	0,050	-0,050	0,070	0,300	0,200	-0,050	-0,050	-0,050
TI-S %	1,000	+1,000	1,000	1,000	1,000	1,000	0,700	+1,000	+1,000	+1,000
MN-S	700,000	700,000	700,000	700,000	1000,000	1000,000	1000,000	1500,000	1000,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	200,000	200,000	200,000	300,000	500,000	70,000	20,000	200,000	150,000	150,000
BA-S	500,000	500,000	700,000	500,000	500,000	1000,000	700,000	700,000	700,000	700,000
BE-S	1,000	1,500	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	15,000	20,000	20,000	20,000	10,000	20,000	10,000	20,000	20,000	10,000
CR-S	150,000	150,000	100,000	70,000	70,000	150,000	70,000	150,000	100,000	150,000
CU-S	20,000	20,000	20,000	20,000	20,000	20,000	10,000	50,000	50,000	30,000
LA-S	100,000	70,000	70,000	50,000	50,000	70,000	20,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
NI-S	50,000	50,000	50,000	50,000	20,000	100,000	20,000	50,000	50,000	30,000
PB-S	30,000	50,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	20,000	20,000	20,000	15,000	15,000	15,000	10,000	20,000	15,000	15,000
SN-S	-10,000	10,000	-10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	200,000	150,000	NAO DET.	NAO DET.
V-S	150,000	150,000	150,000	100,000	100,000	100,000	100,000	150,000	150,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	100,000	100,000	100,000	50,000	50,000	20,000	20,000	30,000	20,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	500,000	500,000	500,000	300,000	+1000,000	500,000	500,000	500,000	500,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 155

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC046	IAC047	IACC48	IACC49	IAC050	IAC051	IAC052	IAC053	IACC54	IAC055
NUM. CAMPO	MU0680	MU0682	MVC684	MV0694	MV0699	MV0700	MV0709	MVC714	MVC724	MV0729
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG22XDII	SG23VAII	SG23VAII
BASE CART.	12	12	12	12	12	12	12	12	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	25 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	48 15 00	47 15 00	47 15 00
ABCISSA - X	0220	0194	0421	0448	0195	0234	0297	0246	0210	0205
ORDENADA - Y	0278	0340	0104	0085	0110	0115	0193	0202	0221	0198
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	D	D	D	D	D	D	D	D	D
IC. GEOLOG.	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIICIDADE	A	A	E	F	A	A	A	A	A	A
TIPO VEGET.	B	B	C	B	C	C	C	B	B	B
SIT. TCPCG.	B	A	A	A	A	A	A	A	A	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	320	60	10	120	50	50	3	160	40	300
PRCF. AMOST.	0,50	0,60	0,50	0,20	0,50	0,50	0,20	0,20	0,20	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCC.										
LARGURA RIO	1	8	2	1	6	6	4	2	2	2
PROFUND. RIO	0,5	0,6	0,5	0,3	0,5	0,5	0,2	0,2	0,2	0,2
VELOC. CORR.	4	3	2	3	3	3	3	3	3	4
NIVEL AGUA	2	2	3	3	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA	3	2	1	1	2	2	2	2	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	F	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	C	B	B	B	B	B	B
VOL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SECIM.	82	352	73	1432	253	253	271	262	352	631
CCR SEC./SL.										
HORIZ. SCLC										
TIPO SOLO										
AMB. BIOTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC046 MU0680	IAC047 MU0682	IACC4E MVC684	IACC49 MV0694	IAC050 MV0699	IAC051 MV0700	IAC052 MV0709	IACC53 MV0714	IACC54 MV0724	IAC055 MV0729
PARAMETROS ANALITICOS										
FE-S *	5,000	3,000	10,000	10,000	5,000	10,000	2,000	5,000	2,000	2,000
MG-S *	0,200	0,200	0,050	0,200	0,150	0,700	0,100	0,300	0,300	0,300
CA-S *	0,100	0,150	-0,050	-0,050	0,050	0,700	0,150	0,200	0,050	0,050
TI-S *	0,700	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	1,000
MN-S	1000,000	1500,000	1500,000	700,000	700,000	5000,000	1000,000	1500,000	500,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	30,000	100,000	200,000	100,000	50,000	10,000	20,000	20,000	300,000	300,000
BA-S	700,000	700,000	100,000	200,000	300,000	500,000	500,000	700,000	500,000	300,000
BE-S	2,000	1,500	NAO DET.	-1,000	2,000	-1,000	2,000	2,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000	10,000	20,000	5,000	20,000	5,000	10,000	10,000	10,000
CR-S	20,000	70,000	150,000	150,000	10,000	20,000	20,000	50,000	150,000	70,000
CU-S	10,000	10,000	10,000	100,000	15,000	15,000	5,000	10,000	15,000	20,000
LA-S	100,000	150,000	50,000	50,000	300,000	100,000	50,000	70,000	500,000	300,000
MO-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NE-S	15,000	20,000	20,000	15,000	20,000	20,000	15,000	20,000	15,000	15,000
NI-S	15,000	15,000	15,000	50,000	15,000	15,000	10,000	15,000	20,000	30,000
PB-S	70,000	50,000	10,000	20,000	100,000	20,000	20,000	50,000	20,000	15,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	10,000	30,000	20,000	20,000	20,000	10,000	10,000	10,000	10,000
SN-S	10,000	10,000	NAO DET.	NAC DET.	10,000	INTERFER.	10,000	10,000	NAO DET.	NAO DET.
SR-S	-100,000	100,000	NAC DET.	NAC DET.	NAO DET.	100,000	-100,000	100,000	NAO DET.	NAO DET.
V-S	30,000	30,000	100,000	200,000	30,000	150,000	20,000	30,000	50,000	50,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	100,000	150,000	200,000	50,000	200,000	150,000	70,000	70,000	500,000	300,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	+1000,000	+1000,000	200,000	200,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	1000,000

CPRM CADASTRO GEOQUIMICO

23.01.75

FLA. 157

S.E. A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC056	IAC057	IAC058	IAC059	IAC060	IAC061	IAC062	IAC063	IAC064	IAC065
NUM. CAMPO	MV0731	MV0735	MV0737	MV0741	MV0745	MV0747	MV0749	MV0752	MV0755	MV0761
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	5523VAII	SG23VAII	SG23VAII	SG23VAII
BASE CART.	2	2	2	2	2	2	2	2	2	2
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00	47 15 00
ABCISSA - X	0225	0238	0236	0261	0200	0177	0161	0137	0120	0040
ORDENADA - Y	0223	0182	0233	0254	0244	0256	0238	0243	0225	0199
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
PCCHA REG.	C	C	C	C	C	C	C	C	C	C
ID. GEOLCG.	AX	AX	AX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICISILADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	B	B	B	B	B	B	B	B	B	B
SIT. TUPOG.	A	C	A	C	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	30	140	20	180	40		30	30	20	15
PRCF. AMOST.	0,50	0,50	0,20	0,50	0,20	0,20	0,50	0,30	0,20	0,50
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIC	4	5	4	6	2	2	2	1	2	2
PROFUND. RIO	0,3	0,3	0,2	0,3	0,2	0,2	0,2	0,2	0,2	0,2
VELCC. CORR.	4	3	3	4	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	2	1	2	2	1	1	1	1
TURB. AGUA	3	2	1	2	2	2	2	2	2	2
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARREC.	B	B	B	B	B	B	B	C	B	C
VCL. CRIGIN.										
PESO CCNC.										
GRANULMET.										
TEXT. SEDIM.	352	163	631	262	2521	1531	631	352	631	3222
COR SEC./SL.										
MATRIZ, SCLC										
TIPO SCLC										
AME. ETIOTICO										

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141-170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC056 MV0731	IAC057 MV0735	IACC58 MV0737	IACC59 MV0741	IAC060 MV0745	IAC061 MV0747	IAC062 MV0749	IACC63 MV0752	IACC64 MV0755	IAC065 MV0761
PARAMETROS ANALITICOS										
FE-S 2	1,500	2,000	10,000	2,000	7,000	5,000	3,000	5,000	5,000	3,000
MG-S 2	0,200	0,200	0,700	0,200	0,300	0,300	0,300	0,500	0,500	0,500
CA-S 2	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	-0,050	0,070	0,050	0,050
TI-S 2	+1,000	+1,000	+1,000	1,000	1,000	1,000	0,700	1,000	+1,000	1,000
MN-S	500,000	700,000	1000,000	700,000	700,000	700,000	500,000	700,000	1000,000	500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	1500,000	1000,000	150,000	200,000	200,000	100,000	200,000	100,000	500,000	200,000
BA-S	300,000	300,000	700,000	500,000	500,000	500,000	500,000	700,000	500,000	500,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	5,000	10,000	50,000	10,000	10,000	10,000	10,000	20,000	10,000	10,000
CR-S	70,000	70,000	150,000	100,000	100,000	100,000	70,000	150,000	100,000	100,000
CU-S	10,000	15,000	30,000	15,000	20,000	20,000	20,000	20,000	20,000	15,000
LA-S	50,000	70,000	100,000	100,000	100,000	100,000	100,000	50,000	500,000	100,000
MC-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
NB-S	10,000	15,000	15,000	15,000	15,000	15,000	10,000	15,000	15,000	15,000
NI-S	15,000	20,000	50,000	30,000	50,000	30,000	30,000	30,000	30,000	30,000
PB-S	10,000	10,000	50,000	20,000	20,000	20,000	20,000	50,000	50,000	20,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	15,000	20,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
V-S	50,000	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
Y-S	100,000	150,000	70,000	150,000	70,000	70,000	100,000	20,000	500,000	300,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	500,000	500,000	700,000	500,000	700,000	700,000	500,000	500,000	1000,000	700,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 159

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC066	IAC067	IAC068	IAC069	IAC070	IAC071	IAC072	IAC073	IAC074	IAC075
NUM. CAMPI	MV0762	MV0764	MVC777	MV0780	JLQ637	JL0647	JD0853	JD0863	JD0867	JD0868
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG23VAII	SG22XCII	SG23VAI2	SG23VAI2	SG22XBII	SG22XBII
BASE CART.	2	2	2	2	1	2			10	10
ESCALA	0050	0050	0050	0050	0050	0050	0050	C050	C050	0050
DATA	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74	05/74
LATITUDE	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	25 15 00 S	24 15 00 S	24 15 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 15 00	47 15 00	47 15 00	47 15 00	47 30 00	48 45 00	47 45 00	48 00 00	48 30 00	48 30 00
ABCISSA - X	0042	0048	0118	0123	0295	0418	0503	0382	0452	0440
ORDENADA - Y	0164	0157	0089	0104	0175	0518	0446	0558	0294	0291
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	D	C	C	C	D	D
ID. GEOLG.	AX	AX	AX	AX	AI	AI	AI	AS	BX	BX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	D	D	C	B	A	B	B
TIPO VEGET.	A	F	B	B	B	B	B	B	B	B
SIT. TOPOG.	B	B	E	B	B	B	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	80	120	260	200	250	580	600	520	300	300
PROF. AMOST.	0,10	0,50	0,15	0,40	0,50	0,30	0,35	0,35	0,35	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	2	5	1	5	5	1	5	4	3	5
PROFUND. RIO	0,2	0,5	0,2	0,4	0,6	0,4	0,4	0,4	0,4	0,4
VELOC. CORR.	4	4	2	3	2	3	1	1	2	1
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	2	1	1	2	1	1	1	1	2
TURB. AGUA	2	2	2	2	1	1	1	1	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	I	A	A	A	A	A
GRAU ABREC.	B	F	C	C	B	C	B	B	B	B
VCL. ORIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SEDIM.	271	2721	622	302	721	721	091	91	811	811
COR SED./SL.										
HORIZ. SOLO										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC066 MV0762	IAC067 MV0764	IACC68 MVC777	IACC69 MV0780	IAC070 JL0637	IAC071 JL0647	IAC072 J00853	IACC73 J00863	IACC74 J00867	IAC075 J00868
PARAMETROS ANALITICOS										
FE-S	7,000	2,000	2,000	1,500	3,000	1,500	7,000	5,000	15,000	10,000
MG-S	0,700	0,300	0,500	0,300	0,500	0,200	0,700	0,300	0,700	0,500
CA-S	0,050	0,050	0,100	0,100	0,070	0,300	0,300	0,100	2,000	1,000
TI-S	1,000	1,000	0,300	0,300	+1,000	0,700	+1,000	+1,000	+1,000	+1,000
MN-S	700,000	700,000	700,000	500,000	700,000	500,000	700,000	3000,000	1500,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
B-S	100,000	300,000	20,000	20,000	300,000	NAC DET.	100,000	200,000	10,000	10,000
BA-S	500,000	500,000	500,000	500,000	1000,000	3000,000	1500,000	500,000	1500,000	1500,000
BE-S	1,000	-1,000	2,000	1,500	1,000	1,000	1,500	1,000	2,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CC-S	50,000	10,000	5,000	5,000	10,000	5,000	20,000	20,000	20,000	20,000
CR-S	100,000	70,000	70,000	70,000	100,000	50,000	70,000	70,000	200,000	200,000
CU-S	50,000	10,000	5,000	5,000	10,000	5,000	15,000	50,000	30,000	20,000
LA-S	70,000	20,000	50,000	70,000	100,000	50,000	70,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	15,000	15,000	15,000	15,000	20,000	15,000	15,000	15,000	15,000
NI-S	50,000	20,000	20,000	15,000	20,000	15,000	20,000	30,000	30,000	30,000
PB-S	30,000	10,000	30,000	20,000	50,000	70,000	70,000	50,000	100,000	50,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	20,000	10,000	5,000	5,000	10,000	5,000	20,000	15,000	20,000	20,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	100,000	200,000	300,000	NAO DET.	2000,000	500,000
V-S	150,000	50,000	50,000	50,000	100,000	20,000	150,000	100,000	200,000	200,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	100,000	70,000	30,000	50,000	70,000	20,000	70,000	50,000	30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
ZR-S	500,000	300,000	500,000	+1000,000	+1000,000	+1000,000	700,000	500,000	+1000,000	+1000,000

CPRM CADAstro GEOQUIMICO

23.01.75

FLA. 161

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC076	IAC077	IACC78	IAC079	IAC080	IACC81	IAC082	IACC83	IACC84	IAC085
NUM. CAMPO	J00868A	MV0759	AMC316	GG0556	GG0568	GG0572	GG0580	GG0591	MV0788	MV0792
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBII	SG23VAII	SG22XBVI	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV3	SF23YCV4	SF23YCV3	SG23VAII
BASE CART.	13	2	3							4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	05/74	05/74	05/74	07/74	07/74	07/74	07/74	07/74	07/74	07/74
LATITUDE	24 30 00 S	24 15 00 S	25 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 00 00 S	24 30 00 S
LONGITUDE	48 30 00	47 15 00	48 30 00	47 30 30	47 30 00	47 30 00	47 30 00	47 15 00	47 30 00	47 15 00
ABCISSA - X	0440	0077	0167	0056	0351	0365	0348	0085	0092	0060
ORDENADA - Y	0291	0195	0525	0173	0140	0032	0098	0058	0118	0505
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	D	C	S	C	C	C	C	C	C	C
ID. GEOLCG.	BX	AX	BX	AX	AX	AX	AX	AX	AX	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	A	A	A	A	A	A	A	A	A
TIPO VEGET.	B	A	C	A	C	C	C	C	C	A
SIT. TCPOG.	A	A	B	B	B	B	B	B	C	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	300	20	350	550	720	670	620	550	590	50
PROF. AMOST.	0,35	0,50	0,30	0,20	0,70	0,40	0,20	1,00	0,20	0,10
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCR.										
LARGURA RIO	3	6	4	2	1	2	2	2	2	1
PROFUND. RIO	0,4	0,3	0,4	0,2	0,7	0,4	0,3	1,0	0,3	0,1
VELCC. CORR.	1	3	4	3	2	3	3	1	3	3
NIVEL AGUA	2	2	2	1	2	2	2	2	2	2
AREA DRENAG.	2	2	1	1	1	1	1	1	1	2
TURB. AGUA	1	2	2	2	1	2	2	1	2	2
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ARRED.	B	B	B	B	B	C	C	B	B	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SECIM.	811	631	4411	262	262	631	73	262	82	172
COF SEC./SL.										
RELAZ. SOLO										
TIPC SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SUCELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC076 JDO368A	IAC077 MV0759	IACC78 AMC316	IACC79 GG0556	IAC080 GG0568	IAC081 GG0572	IAC082 GG0580	IAC083 GG0591	IAC084 MV0788	IAC085 MV0792
PARAMETROS ANALITICOS										
FE-S %	10,000	10,000	3,000	1,000	1,500	2,000	1,500	1,500	3,000	0,500
MG-S %	0,500	0,700	0,700	0,150	0,200	0,200	0,300	0,200	0,300	0,100
CA-S %	0,200	0,050	0,300	-0,050	0,050	-0,050	0,070	-0,050	0,050	0,100
TI-S %	+1,000	1,000	1,000	0,500	+1,000	0,700	0,500	0,200	1,000	0,150
MN-S	3000,000	1500,000	1000,000	70,000	1000,000	500,000	700,000	1000,000	300,000	100,000
AG-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AS-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
AU-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
B-S	100,000	200,000	70,000	70,000	200,000	1000,000	10,000	70,000	70,000	-10,000
BA-S	1500,000	700,000	1000,000	300,000	700,000	300,000	1500,000	300,000	700,000	200,000
BE-S	-1,000	2,000	2,000	-1,000	1,000	1,000	1,500	2,000	1,500	1,000
BI-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CD-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
CO-S	20,000	30,000	20,000	NAC DET.	5,000	5,000	NAC DET.	5,000	7,000	5,000
CR-S	100,000	150,000	150,000	70,000	10,000	20,000	20,000	10,000	50,000	150,000
CU-S	20,000	20,000	20,000	-5,000	7,000	10,000	-5,000	7,000	5,000	-5,000
LA-S	20,000	70,000	50,000	50,000	200,000	50,000	20,000	50,000	50,000	100,000
MO-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
NB-S	20,000	15,000	15,000	10,000	20,000	10,000	10,000	-10,000	15,000	-10,000
NI-S	15,000	50,000	50,000	5,000	10,000	15,000	NAC DET.	10,000	20,000	NAC DET.
PB-S	50,000	50,000	50,000	20,000	30,000	20,000	30,000	50,000	70,000	20,000
SB-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SC-S	10,000	15,000	10,000	NAC DET.	5,000	10,000	NAC DET.	5,000	10,000	NAC DET.
SN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
SR-S	200,000	NAC DET.	200,000	NAC DET.	-100,000	NAC DET.	100,000	NAC DET.	100,000	NAC DET.
V-S	200,000	100,000	100,000	70,000	20,000	70,000	15,000	20,000	100,000	10,000
W-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
Y-S	30,000	70,000	20,000	10,000	20,000	200,000	-10,000	10,000	10,000	30,000
ZN-S	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
ZR-S	+1000,000	500,000	1000,000	700,000	+1000,000	700,000	300,000	150,000	1000,000	500,000

CPRM CADASTRO GEOQUIMICO

23.01.75 FLA. 163

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC086	IAC087	IAC088	IAC089	IAC090	IAC091	IAC092	IAC093	IAC094	IAC095
NUM. CAMPO	MV0830	MV0842	MVC850	MVC859	MV0863	JC0855	JD0855A	JD0872	JDC875	JD0877
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SF23YCV4	SG23VA11	SF23YCV3	SG23VA11	SG23VA11	SG22XB11	SG22YB11	SG23VA11	SG23VA11	SG23VA11
BASE CART.		4		2	2	13	13			
ESCALA	0050	0050	CC50	0050	0050	0050	0050	0050	0050	0050
DATA	07/74	07/74	C7/74	07/74	07/74	05/74	05/74	06/74	06/74	06/74
LATITUDE	24 30 00 S	24 30 00 S	24 30 00 S	24 15 00 S	24 15 00 S	24 30 00 S	24 30 00 S	24 15 00 S	24 15 00 S	24 15 00 S
LONGITUDE	47 15 00	47 15 00	47 30 00	47 15 00	47 15 00	48 30 00	48 30 00	48 00 00	48 00 00	48 00 00
ABCISSA - X	0463	0085	0476	0069	0019	0495	0495	0210	0137	0070
ORDENADA - Y	0074	0369	0279	0452	0339	0313	0313	0248	0262	0268
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPC AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	C	C	C	C	D	C	C	C	C
ID. GEOLCG.	AX	AX	AX	AX	AX	BX	BX	BX	BX	BX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	C	A	A	A	A	A	A	A	C	C
TIPO VEGET.	A	B	C	C	B	B	B	B	B	B
SIT. TOPOG.	B	B	A	B	B	B	B	B	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	610	250		600	160	300	300	300	850	450
PROF. AMOST.	0,50	1,00	0,20	0,20	0,20	0,35	0,45	0,45	0,25	0,35
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	2	6	2	1	8	4	6	3	5	3
PROFUND. RIO	0,5	1,5	0,3	0,2	0,4	0,4	0,5	0,3	0,4	0,3
VELCC. CORR.	2	3	2	3	2	2	2	1	2	2
NIVEL AGUA	3	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	1	2	1	2	1	2	1	2	1
TURB. AGUA	2	2	2	1	2	1	1	2	1	1
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	H	A	A	A	A	A	A	A	A	A
GRAU ARRED.	B	B	B	C	B	E	B	B	B	B
VCL. CRIGIN.										
PESC CCNC.										
GRANULOMLT.										
TEXT. SEDIM.	541	64	621	651	262	811	811	811	811	811
COR SED./SL.										
MATRIZ, SOLO										
TIPC SOLO										
AMP. HORIZONTAL										

S E A G

PROJETO - SUDALPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SECIMENTOS DE CARPENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC086 MV0830	IAC087 MV0842	IAC088 MV0850	IAC089 MV0859	IAC090 MV0853	IAC091 JD0855	IAC092 JD0855A	IAC093 JD0872	IAC094 JD0875	IAC095 JD0877
PARAMETROS ANALITICOS										
FE-S %	1,500	10,000	1,500	1,500	1,500	3,000	2,000	7,000	5,000	3,000
MG-S %	0,100	1,000	0,300	0,200	0,150	0,500	0,500	0,700	1,000	0,700
CA-S %	-0,050	0,500	0,150	-0,050	-0,050	0,700	0,700	1,500	1,000	1,000
TI-S %	0,500	0,700	1,000	0,200	0,500	+1,000	1,000	0,700	0,500	0,500
MN-S	200,000	1500,000	1000,000	300,000	500,000	700,000	700,000	1000,000	700,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	300,000	-10,000	1000,000	500,000	700,000	20,000	20,000	20,000	-10,000	-10,000
BA-S	300,000	1000,000	300,000	500,000	200,000	2000,000	1500,000	2000,000	1500,000	2000,000
BE-S	1,000	1,000	1,000	1,000	1,000	1,500	1,500	2,000	2,000	2,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	30,000	5,000	5,000	5,000	10,000	10,000	20,000	20,000	20,000
CR-S	20,000	200,000	50,000	20,000	10,000	100,000	100,000	150,000	150,000	150,000
CU-S	7,000	30,000	7,000	5,000	10,000	15,000	10,000	15,000	10,000	10,000
LA-S	50,000	70,000	300,000	150,000	100,000	20,000	20,000	20,000	20,000	20,000
MC-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	10,000	10,000	15,000	-10,000	10,000	10,000	10,000	15,000	15,000	15,000
NI-S	10,000	50,000	15,000	15,000	10,000	20,000	20,000	30,000	30,000	30,000
PB-S	30,000	30,000	-10,000	30,000	20,000	30,000	20,000	30,000	70,000	50,000
SB-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	10,000	30,000	5,000	-5,000	10,000	20,000	20,000	30,000	15,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAC DET.	200,000	NAO DET.	NAO DET.	NAO DET.	700,000	500,000	1000,000	700,000	700,000
V-S	50,000	150,000	30,000	20,000	20,000	100,000	100,000	150,000	100,000	100,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	50,000	30,000	200,000	50,000	200,000	10,000	10,000	10,000	10,000	10,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	700,000	500,000	+1000,000	700,000	700,000	500,000	700,000	500,000	300,000	700,000

CPRM CATASTRO GEOQUIMICO

23.01.75

FLA. 165

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC097	IAC098	IAC099	IAC100	IAC101	IAC102	IAC103	IAC104	IAC105	IAC106
NUM. CAMPO	JD0887B	JL0649	JLC650	JL0652	JLQ654	IF0716	IP0718	JR0446	JR0465	JR0471
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CLSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG23BAII	SG23VAII	SG23VAII	SG10VAII	SG22XBII	SG22XBII	SG22XBII	SG22XBII	SG22XBII
BASE CART.	2					13	13	13	13	13
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/74	07/74	07/74	07/74	07/74	07/74	07/74	06/74	06/74	06/74
LATITUDE	24 45 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 15 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	48 15 00	48 00 00	48 00 00	48 00 00	48 00 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00
ABCISSA - X	0457	0340	0340	0387	0440	0017	0023	0315	0271	0267
ORDENADA - Y	0511	0350	0285	0369	0344	0258	0268	0423	0312	0378
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.	C	D	D	D	D	C	C	D	Q	C
ID. GEOLG.	AS	AI	AI	AI	AI	AS	AS	CI	AS	AS
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE		C	C	C	C	C	C	B	D	B
TIPO VEGET.	A	B	B	B	B	B	B	B	B	B
SIT. TPCG.	A	B	B	B	B	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	A	C	C
ALTITUDE	300	420	410	420	350	350	350	570	610	520
PROF. AMOST.	0,25	0,20	0,30	0,30	0,20	0,35	0,35	0,40	0,10	0,30
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIO	2	4	3	3	2	1	1	3	3	4
PROFUND. RIC	0,3	0,4	0,5	0,4	0,5	0,3	0,3	0,6	0,2	0,5
VELOC. CORR.	2	2	2	2	2	3	3	2	3	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	2	2	2	2	1	1	1	1	2
TURB. AGUA	1	1	1	1	1	2	2	1	1	1
POS. COLITA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	A	A	A	A
GRAU ABREC.	B	B	B	B	B	B	B	A	B	A
VCL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.	211	211	211	211	211	14221	14221	42121	23221	3313
COR SEC./SL.										
HORIZ. SELC										
TIPO SOLO										
AMB. BIOTICO										

S E A G

PROJETO - SLDLPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC097 JD08873	IAC098 JL0449	IAC099 JLC650	IAC100 JLC652	IAC101 JL0654	IAC102 IP0716	IAC103 IP0718	IAC104 JR0446	IAC105 JF0465	IAC106 JR0471
PARAMETROS ANALITICOS										
FE-S 2	5,000	3,000	2,000	7,000	5,000	3,000	15,000	3,000	10,000	3,000
MG-S 2	0,300	0,500	0,300	1,000	0,700	0,200	0,500	0,300	0,500	0,300
CA-S 2	0,070	1,000	0,100	1,500	1,000	0,050	0,070	0,200	0,500	0,200
TI-S 2	1,000	0,700	0,500	0,700	0,700	1,000	0,700	1,000	+1,000	1,000
MN-S	1500,000	700,000	300,000	1500,000	1000,000	1500,000	1500,000	1500,000	3000,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAC DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	-10,000	150,000	70,000	200,000	50,000	100,000	150,000	70,000	70,000	50,000
BA-S	500,000	2000,000	700,000	2000,000	2000,000	500,000	500,000	500,000	200,000	200,000
BE-S	1,500	1,500	1,000	1,500	1,500	1,500	2,000	1,500	-1,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	30,000	10,000	5,000	15,000	15,000	10,000	30,000	20,000	30,000	10,000
CR-S	150,000	100,000	70,000	200,000	150,000	150,000	200,000	150,000	150,000	100,000
CU-S	30,000	10,000	10,000	10,000	10,000	30,000	50,000	30,000	50,000	30,000
LA-S	70,000	20,000	20,000	20,000	50,000	50,000	50,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	10,000	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
NB-S	15,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
NI-S	30,000	30,000	20,000	30,000	30,000	20,000	70,000	50,000	70,000	50,000
PB-S	50,000	30,000	20,000	50,000	70,000	30,000	70,000	30,000	20,000	10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	15,000	20,000	10,000	10,000	10,000	20,000	20,000	20,000	30,000	10,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SR-S	NAO DET.	1000,000	200,000	1500,000	1000,000	NAC DET.	NAO DET.	100,000	NAO DET.	NAC DET.
V-S	150,000	100,000	100,000	150,000	100,000	150,000	150,000	150,000	200,000	150,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.
Y-S	30,000	10,000	10,000	30,000	20,000	20,000	50,000	20,000	20,000	15,000
ZN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
ZR-S	500,000	1000,000	300,000	1000,000	1000,000	150,000	200,000	200,000	150,000	150,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 167

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB.	IAC107	IAC108	IAC109	IAC110	IAC111	IAC112	IAC176	IAC177	IAC178	IAC203
NUM. CAMPO	FB0301	FB0302	FBC303	FB0310	F60320	FB0307	JL0667	JL0669	JL0671	GG0625
C. CUSTO	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310	310	310	310	310
BASE CART.	SG22XBVI	SG22XBII	SG22SBVI	SG22XBVI	SG22XBVI	SG22XBVI	SG22XBII	SG22XBII	SG22XBII	SG21XBVI
BASE CART.	3	3	3	3	3	3	12	12	12	4
BASE CART.										
ESCALA	0050	0050	0050	0050	0050	0050	0050	0050	0050	0050
DATA	07/74	07/74	07/74	07/74	07/74	07/74	08/74	08/74	08/74	08/74
LATITUDE	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	25 00 00 S	24 15 00 S	24 15 00 S	24 15 00 S	25 00 00 S
LONGITUDE	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 30 00	48 15 00	48 15 00	48 15 00	48 15 00
ABCISSA - X	0496	0496	0381	0165	0202	0448	0400	0400	0469	0325
ORDENADA - Y	0185	0180	0132	0123	0020	0530	0127	0137	0148	0192
UTM - LAT.										
UTM - LONG.										
MER. CENT.										

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIPO AMOST.	B	B	B	B	B	B	B	B	B	B
FONTE AMOST.	L	L	L	L	L	L	L	C	L	L
ROCHA REG.	S	S	C	S	C	N	D	D	D	C
ID. GEOLG.	BX	BX	AM	PX	AM	AM	AI	AI	AI	AX
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ACUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	B	B	B	B	B	B	D	D	D	B
TIPO VEGET.	C	C	C	C	C	C	E	B	B	C
SIT. TOPOG.	A	A	A	A	A	A	E	B	B	B
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE	675	675	680	620	635	455	280	300	400	80
PROF. AMOST.	0,30	0,30	0,50	0,30		0,20	0,40	0,50		0,20
FORMA ICNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	2	3	4	3	3	3	1	6	8	2
PROFUND. RIO	0,4	0,4	0,7	0,4	0,4	0,4	0,5	0,5	0,4	0,2
VELOC. CORR.	3	3	3	3	1	3	3	3	3	2
NIVEL AGUA	2	2	2	2	2	2	3	3	3	2
AREA DRENAG.	1	1	1	2	2	1	2	2	2	1
TURB. AGUA	1	1	0	0	0	1	2	2	2	1
PDS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA	A	A	A	A	A	A	I	I	I	A
GRAU AFEC.	H	H	C	H	C	C	B	B	B	B
VCL. ORIGIN.										
PESC COCCO.										
GRANULOMET.										
TEXT. SEDIM.	202	1621	622	103	721	172	721	721	721	352
COR SEC./OL.										
HOZIZ. SCLD										
TIPO SCLD										
AMB. BICTICO										

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAC107 FB0301	IAC108 FB0302	IAC109 FB0303	IAC110 FB0319	IAC111 FB0320	IAC112 FB0307	IAC176 JL0667	IAC177 JL0669	IAC178 JL0671	IAC203 GG0625
PARAMETROS ANALITICOS										
FE-S %	5,000	3,000	5,000	5,000	15,000	7,000	3,000	2,000	15,000	3,000
MG-S %	0,300	0,100	0,300	0,300	0,050	0,500	0,500	0,300	0,700	0,700
CA-S %	0,050	-0,050	0,150	0,150	-0,050	0,070	0,200	0,100	1,500	0,500
TI-S %	0,700	1,000	+1,000	+1,000	+1,000	0,700	0,500	0,700	0,500	0,700
MN-S	1000,000	700,000	3000,000	3000,000	5000,000	1000,000	2000,000	1500,000	1500,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	-10,000	-10,000	150,000	-10,000	300,000	70,000	100,000	50,000	70,000
BA-S	500,000	300,000	700,000	500,000	300,000	700,000	700,000	700,000	1500,000	700,000
BE-S	1,500	1,000	-1,000	-1,000	-1,000	1,500	1,500	3,000	2,000	1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CG-S	10,000	5,000	10,000	10,000	10,000	20,000	10,000	5,000	10,000	10,000
CR-S	100,000	20,000	700,000	500,000	700,000	200,000	70,000	50,000	200,000	70,000
CU-S	10,000	5,000	7,000	10,000	15,000	20,000	20,000	15,000	7,000	20,000
LA-S	50,000	100,000	30,000	100,000	-200,000	20,000	70,000	70,000	30,000	20,000
MO-S	NAO DET.	5,000	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000	-5,000	-5,000	NAO DET.
NB-S	15,000	50,000	15,000	20,000	50,000	10,000	10,000	10,000	10,000	10,000
NI-S	20,000	10,000	30,000	50,000	10,000	50,000	30,000	20,000	50,000	30,000
PB-S	30,000	30,000	10,000	20,000	20,000	20,000	30,000	30,000	50,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	10,000	7,000
SN-S	10,000	15,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	NAO DET.	100,000	-100,000	NAO DET.	NAO DET.	100,000	100,000	700,000	200,000
V-S	100,000	30,000	50,000	50,000	70,000	100,000	70,000	70,000	100,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	50,000	70,000	10,000	100,000	50,000	30,000	20,000	50,000	20,000	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	300,000	300,000	300,000	1000,000	1000,000

CPRM CACASTRO GEOQUIMICO

23.01.75

FLA. 169

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAE. IAC204
 NUM. CAMPO GG0632
 C. CUSTO 1430
 S. CLSTO 310
 BASE CART. SG22XBVI
 BASE CART. 4
 BASE CART.
 ESCALA 0050
 DATA 08/74
 LATITUDE 25 00 00 S
 LONGITUDE 48 15 00
 ABSCISSA - X 0351
 ORDENADA - Y 0282
 UTM - LAT.
 UTM - LONG.
 MER. CENT.

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST. S
 TIPO AMOST. B
 FONTE AMOST. L
 ROCHA REG. C
 ID. GEOLG. AX
 MAT. COLET. ALUV
 PLUVIOSIDADE B
 TIPO VEGET. C
 SIT. TOPOG. B
 SIT. AMOST. C
 ALTITUDE 60
 PRCF. AMOST. 0,30
 FORMA IGNEA
 SIT. ESTRUT.
 MATRIZ PREC.
 GRAU INTEMP.
 TIPO ALTER.
 TIPO MINER.
 DEP. CCCCR.
 LARGURA RIO 2
 PROFUND. RIO 0,3
 VELOC. CORR. 2
 NIVEL AGUA 2
 AREA DRENAG. 1
 TURB. AGUA 1
 PCS. COLETA C
 COR AGUA A
 GRAU ARREC. B
 VCL. ORIGIN.
 PESC CONC.
 GRANULOMET. 271
 TEXT. SEDIM.
 COR SEC./SL.
 HORIZ. SCLC
 TIPO SCLC
 AMB. BIOTICO

AMOSTRAS DE SEDIMENTOS DE CORRENTE - AREA TOTAL

NUM. LAB. IAC204
NUM. CAMPO GEOE32

PARAMETROS ANALITICOS

FE-S %	5,000
MG-S %	1,500
CA-S %	0,300
TI-S %	1,000
MN-S	700,000
AG-S	NAC DET.
AS-S	NAC DET.
AU-S	NAC DET.
B-S	-10,000
BA-S	1000,000
BE-S	1,000
BI-S	NAC DET.
CD-S	NAC DET.
CC-S	20,000
CR-S	200,000
CU-S	50,000
LA-S	20,000
MO-S	NAC DET.
NB-S	10,000
NI-S	100,000
PB-S	20,000
SB-S	NAC DET.
SC-S	7,000
SN-S	NAC DET.
SR-S	100,000
V-S	70,000
W-S	NAC DET.
Y-S	15,000
ZN-S	NAC DET.
ZR-S	700,000

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SOLGS - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA809 JD0041	IAA816 JD0089	IAA923 JD0170	IAA924 JD0171	IAA925 JD0172	IAA926 JD0173	IAA927 JD0174	IAA928 JD0175	IAA934 JL0172	IAA935 JL0173
PARAMETROS ANALITICOS										
FE-S %	3,000	7,000	10,000	20,000	7,000	15,000	15,000	15,000	20,000	20,000
MG-S %	0,150	0,200	0,200	0,200	3,000	0,200	0,500	0,100	0,150	0,150
CA-S %	-0,050	0,100	-0,050	0,070	7,000	-0,050	0,050	0,100	-0,050	-0,050
TI-S %	0,200	+1,000	0,700	+1,000	1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S	1500,000	300,000	200,000	1500,000	1500,000	700,000	1000,000	2000,000	1000,000	1000,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	-10,000	NAO DET.	20,000	NAO DET.	NAO DET.	10,000	10,000	10,000	NAO DET.	NAO DET.
BA-S	200,000	150,000	700,000	200,000	500,000	150,000	150,000	150,000	1000,000	500,000
BE-S	1,500	-1,000	2,000	1,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	-5,000	50,000	10,000	100,000	50,000	50,000	100,000	50,000	20,000	50,000
CR-S	50,000	150,000	300,000	+5000,000	1500,000	+5000,000	+5000,000	+5000,000	+5000,000	+5000,000
CU-S	20,000	10,000	10,000	INTERFER.	2000,000	INTERFER.	INTERFER.	20,000	INTERFER.	INTERFER.
LA-S	50,000	100,000	50,000	100,000	NAO DET.	50,000	20,000	20,000	150,000	50,000
MO-S	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	10,000	10,000	20,000	-10,000	10,000	10,000	10,000	20,000	20,000
NI-S	15,000	20,000	70,000	1000,000	300,000	200,000	200,000	700,000	500,000	500,000
PB-S	10,000	20,000	50,000	20,000	10,000	20,000	10,000	15,000	50,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	15,000	15,000	20,000	100,000	50,000	50,000	50,000	20,000	50,000	100,000
SN-S	-10,000	10,000	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
SR-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	200,000	NAO DET.	NAO DET.	NAO DET.	150,000	NAO DET.
V-S	70,000	70,000	100,000	150,000	100,000	200,000	200,000	100,000	150,000	200,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	20,000	30,000	20,000	50,000	30,000	30,000	20,000	20,000	30,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.
ZR-S	100,000	500,000	300,000	100,000	70,000	200,000	200,000	70,000	200,000	200,000

CYRUS

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SOLCS - AREA TOTAL

NUM. LAB.	IAA936	IAA937	IACC96	IAC179	IAC180	IAC181
NUM. CAMPO	JL0174	JL0179	JDC887A	JD0897	JD0898	JD0899
C. CUSTO	1430	1430	1430	1430	1430	1430
S. CUSTO	310	310	310	310	310	310
BASE CART.	SG23VAI4	SG23VAI4	SG22XBVI	SG23VAI4	SG23VAI4	SG23VAI4
BASE CART.			2			
BASE CART.						
ESCALA	0050	0050	0050	0050	0050	0050
DATA	09/73	09/73	07/74	08/74	08/74	08/74
LATITUDE	24 30 00 S	24 30 00 S	24 45 00 S	24 30 00 S	24 30 00 S	24 30 00 S
LONGITUDE	47 45 00	47 45 00	48 15 00	47 45 00	47 45 00	47 45 00
ABCISSA - X	0161	0123	0457	0382	0384	0436
ORDENADA - Y	0184	0175	0511	0160	0156	0130
UTM - LAT.						
UTM - LONG.						
MER. CENT.						

PARAMETROS DESCRITIVOS DE CAMPO.

CLAS. AMOST.	L	L	L	L	L	L
TIPC AMOST.	B	B	B	B	B	B
FONTE AMOST.	F	F	F	F	F	F
RCCHA REG.	C	C	C	C	C	C
ID. GECLCG.	AI	AI	AS	AI	AI	AI
MAT. COLET.	SOLO	SOLO	SOLO	SOLO	SOLO	SOLO
PLUVIOSIDADE	D	D	C	A	A	A
TIPO VEGET.	E	E	A	A	A	A
SIT. TGPOG.	B	B	A	A	A	A
SIT. AMOST.	F	F				
ALTITUDE	70	35	300	30	30	30
PROF. AMOST.	0,10	0,10	0,10	0,20	0,10	0,10
FORMA IGNEA						
SIT. ESTRUT.						
MATRIZ PRED.						
GRAU INTMP.						
TIPO ALTER.						
TIPO MINER.						
DEP. CCCCR.						
LARGURA RIO						
PROFUND. RIO						
VELOC. CORR.						
NIVEL AGUA						
AREA DRENAG.						
TURB. AGUA						
POS. COLETA						
COR AGUA						
GRAU ARRED.						
VCL. ORIGIN.						
PESO CONC.						
GRANULMET.						
TEXT. SEDIM.		19	7111	721	7111	7111
COR SED./SL.	C			C	C	D
HORIZ. SOLO	A	A	A	H	H	H
TIPO SOLO	A	A	A	A	A	A
AMB. BIOTICO						

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE SOLOS - AREA TOTAL

NUM. LAB. NUM. CAMPO	IAA936 JL0174	IAA937 JL0179	IACC56 JD0887A	IAC179 JD0897	IAC180 JD0898	IAC181 JD0899
PARAMETROS ANALITICOS						
FE-S %	20,000	10,000	7,000	5,000	15,000	0,500
MG-S %	0,070	0,100	0,100	0,070	0,070	0,020
CA-S %	-0,050	-0,050	0,150	-0,050	-0,050	0,050
TI-S %	+1,000	+1,000	+1,000	0,700	+1,000	0,700
MN-S	1000,000	1000,000	5000,000	100,000	500,000	150,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	NAO DET.	20,000	10,000	10,000	10,000	-10,000
BA-S	150,000	1000,000	500,000	100,000	300,000	150,000
BE-S	1,000	1,000	-1,000	1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	20,000	5,000	50,000	-5,000	20,000	-5,000
CR-S	5000,000	1500,000	50,000	100,000	150,000	50,000
CU-S	INTERFER.	INTERFER.	100,000	10,000	20,000	-5,000
LA-S	20,000	150,000	50,000	70,000	70,000	150,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	-5,000
NB-S	-10,000	30,000	15,000	10,000	10,000	10,000
NI-S	200,000	70,000	30,000	30,000	30,000	-5,000
PB-S	20,000	50,000	30,000	30,000	30,000	-10,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	50,000	20,000	20,000	10,000	10,000	-5,000
SN-S	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	200,000	NAO DET.	NAO DET.	-100,000	NAO DET.
V-S	200,000	150,000	200,000	100,000	200,000	50,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	10,000	30,000	20,000	10,000	20,000	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	100,000	200,000	300,000	500,000	700,000	+1000,000

AMOSTRAS DE ROCHAS - AREA TOTAL

NUM. LAB.	IAA984	IAA992	K	U	K	-	I	I	< 0	-K	I	0	J	K	U	K	0
NUM. CAMPO	IP0129A	JD0176	K	U	K	-	I	I	< 0	-K	I	0	J	K	U	K	0
C. CUSTO	1430	1430	K	U	K	-	I	I	< 0	-K	I	0	J	K	U	K	0
S. CUSTO	310	310											J	K	U	K	0
BASE CART.	SG22XBII	SG23VAI4															
BASE CART.	3																
BASE CART.																	
ESCALA	0050	0050															
DATA	09/73	09/73															
LATITUDE	24 30 00 S	24 30 00 S															
LONGITUDE	49 00 00	47 45 00															
ABCISSA - X	0092	0152															
ORDENADA - Y	0140	0195															
UTM - LAT.																	
UTM - LONG.																	
MER. CENT.																	

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	R	R
TIPO AMOST.	A	A
FONTE AMOST.	A	A
ROCHA REG.	S	C
ID. GEOLCG.	CI	AI
MAT. CCLET.	RIGN	RIGN
PLUVIOSIDADE	C	D
TIPO VEGET.	C	E
SIT. TOPOG.	A	B
SIT. AMOST.		
ALTITUDE	880	80
PROF. AMOST.	0,00	0,00
FORMA IGNEA		
SIT. ESTRUT.		
MATRIZ PRED.		
GRAU INTEMP.	C	C
TIPO ALTER.		
TIPO MINER.		
DEP. OCCOR.		
LARGURA RIO		
PROFUND. RIO		
VELOC. CCRR.		
NIVEL AGUA		
AREA DRENAG.		
TURB. AGUA		
POS. COLETA		
COR AGUA		
GRAU ARRED.		
VCL. ORIGIN.		
PESO CONC.		
GRANULOMET.		
TEXT. SEDIM.		
COR SEC./SL.		
HORIZ. SOLO		
TIPO SCLC		
AMB. BIOTICO		

S E A G

PROJETO - SUDELPA

CENTRO DE CUSTO - 5141.170

AMOSTRAS DE ROCHAS - AREA TOTAL

NUM. LAB.	IAA984	IAA992	K	U	K	-	I	I	< 0	-K	I	0	J	K	U	K	0
NUM. CAMPO	IP0129A	JD0176	K	U	K	-	I	I	< 0	-K	I	0	J	K	U	K	0

PARAMETROS ANALITICOS

FE-S %	10,000	5,000
MG-S %	0,020	0,050
CA-S %	0,050	0,050
TI-S %	0,020	0,200
MN-S	+5000,000	300,000
AG-S	NAO DET.	NAO DET.
AS-S	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.
B-S	+10,000	NAO DET.
BA-S	+5000,000	100,000
BE-S	3,000	NAO DET.
BI-S	NAO DET.	NAO DET.
CD-S	NAO DET.	NAO DET.
CO-S	50,000	10,000
CR-S	30,000	+5000,000
CU-S	50,000	7,000
LA-S	NAO DET.	NAO DET.
MG-S	NAO DET.	NAO DET.
NB-S	-10,000	-10,000
NI-S	20,000	200,000
PB-S	NAO DET.	-10,000
SB-S	NAO DET.	NAO DET.
SC-S	5,000	20,000
SN-S	NAO DET.	NAO DET.
SR-S	100,000	NAO DET.
V-S	50,000	100,000
W-S	NAO DET.	NAO DET.
Y-S	20,000	NAO DET.
ZN-S	NAO DET.	NAO DET.
ZR-S	50,000	30,000

CYRUS