


MINISTÉRIO DAS MINAS E ENERGIA  
DEPARTAMENTO NACIONAL DA PRODUÇÃO MINERAL  
CONVÊNIO DNPM - CPRM

PROJETO SANTANA  
RELATÓRIO FINAL DA ETAPA I  
VOLUME VIII

 CPRM	<b>SUREMI</b> SEDOTE
	<i>I-96</i>
	ARQUIVO TÉCNICO
Relatório n.º	<i>581-S</i>
N.º de Volumes:	<i>8</i> V.: <i>8</i>
	<b>OSTENSIVO</b>

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PHL  
012615  
2007



COMPANHIA DE PESQUISA DE RECURSOS MINERAIS

SUPERINTENDÊNCIA REGIONAL DO RECIFE

1976

PROJETO SANTANA

RELATÓRIO FINAL DA ETAPA I

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1 - ARQUIVO GERAL DO PROJETO

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI868	FAI869	FAI870	FAI871	FAI872	FAI873	FAI874	FAI875	FAI876	FAI877
NUM. CAMPO	JF0101	JF0102	JFC103	JF0104	JF0105	JF0106	JF0107	JF0108	JF0109	JF0110
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE GART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0047	0048	0049	0051	0054	0058	0061	0063	0070	0072
ORDENACA - Y	0013	0014	0014	0015	0016	0022	0024	0027	0033	0033
UTM - LAT.	450000	450000	450000	450000	450000	450000	450000	450000	450000	450000
UTM - LONG.	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COLETA										
LARGURA RIO	20	20	20	20	5	15	10	20	10	10
PROFUND. RIO										
VELOC. CORR.	3	4	4	4	2	2	3	3	3	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURE. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPC SCLT										

S E A G

PROJETO - SANTANA

CFNTRQ DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO ANO. BIOTICO	FAI868 JF0101	FAI869 JF0102	FAI870 JF0103	FAI871 JF0104	FAI872 JF0105	FAI873 JF0106	FAI874 JF0107	FAI875 JF0108	FAI876 JF0109	FAI877 JF0110
PARAMETROS ANALITICOS DE CAMPO										
FF										
PH										
METAL TOTAL										
ANALISE 1		NU 1		NU 2		NU 3		NU 4		NU 5
ANALISE 2		ND 2		ND 2		ND 2		ND 2		ND 2
ANALISE 3	NU 1		NU 2		NU 3		NU 4		NU 5	
ANALISE 4	ND 2		ND 2		ND 2		ND 2		ND 2	
CODIF. LIVRE	JA11	JC11	JA11	JC11	JA11	JC11	JA11	JC12	JA12	JC12

PARAMETROS ANALITICOS

FE-S %	2,000	2,000	2,000	3,000	2,000	3,000	2,000	2,000	2,000	2,000
MG-S %	0,200	0,300	0,500	0,300	0,500	0,150	0,300	0,300	0,700	0,500
CA-S %	0,700	0,500	0,700	0,500	0,700	0,300	0,500	0,500	0,700	0,700
TI-S %	1,000	1,000	1,000	+1,000	0,700	+1,000	1,000	1,000	0,700	1,000
MN-S	700,000	700,000	700,000	1000,000	700,000	1000,000	1000,000	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.	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	50,000	100,000	100,000	70,000	50,000	70,000	30,000	50,000	30,000
BA-S	3000,000	2000,000	2000,000	1500,000	2000,000	1000,000	2000,000	1500,000	1500,000	1500,000
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	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
CR-S	15,000	20,000	20,000	20,000	20,000	15,000	20,000	20,000	20,000	20,000
CU-S	7,000	10,000	10,000	7,000	10,000	5,000	7,000	7,000	10,000	10,000
LA-S	30,000	50,000	30,000	30,000	200,000	20,000	20,000	50,000	30,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NE-S	20,000	15,000	20,000	15,000	15,000	50,000	20,000	15,000	10,000	15,000
NI-S	10,000	10,000	15,000	10,000	20,000	10,000	10,000	15,000	20,000	15,000
PB-S	15,000	20,000	20,000	15,000	20,000	10,000	20,000	20,000	20,000	20,000
SI-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.	5,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
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	100,000	100,000	100,000	100,000
V-S	70,000	70,000	70,000	70,000	70,000	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	30,000	30,000	15,000	50,000	30,000	70,000	20,000	150,000	15,000	15,000
ZN-S	INTERFER.	INTERFER.	-200,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	5,000	5,000	10,000	5,000	10,000	5,000	10,000	10,000
PE-AA	15,000	15,000	15,000	15,000	15,000	10,000	20,000	10,000	20,000	15,000
ZN-AA	35,000	20,000	25,000	20,000	25,000	15,000	30,000	25,000	40,000	35,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CE-AA										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI877A	FAI878	FAI879	FAI880	FAI881	FAI882	FAI883	FAI884	FAI885	FAI886
NUM. CAMPO	JF0110	JF0111	JF0112	JF0113	JF0114	JF0115	JF0116	JF0117	JF0118	JF0119
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
ANALISE 1	NU	5		NU	6		NU	8		NU
ANALISE 2	ND	2		ND	2		ND	2		ND
ANALISE 3			NU		6	NU		8	NU	
ANALISE 4			ND		2	ND		2	ND	
CODIF. LIVRE	JC12		JA12		JC12		JA12		MC11	
									MA11	
									MC11	
									MA11	
									MC11	
									MA11	

PARAMETROS ANALITICOS

FE-S %		2,000	1,500	3,000	5,000	1,000	3,000	3,000	2,000	3,000
MG-S %		0,300	0,300	0,100	0,300	0,150	0,150	0,300	0,300	0,500
CA-S %		0,500	0,500	0,200	0,500	0,200	0,300	0,300	0,500	0,500
TI-S %		1,000	1,000	+1,000	+1,000	1,000	+1,000	+1,000	+1,000	1,000
MN-S		1000,000	500,000	1500,000	2000,000	500,000	2000,000	1500,000	1000,000	700,000
AG-S		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AS-S		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.
B-S		20,000	20,000	100,000	150,000	30,000	70,000	20,000	50,000	100,000
BA-S		1500,000	2000,000	2000,000	1500,000	1000,000	1000,000	2000,000	1500,000	1000,000
BE-S		-1,000	-1,000	2,000	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000
BT-S		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.
CO-S		5,000	5,000	5,000	7,000	-5,000	5,000	5,000	5,000	5,000
CR-S		20,000	20,000	20,000	20,000	15,000	15,000	15,000	15,000	20,000
CU-S		7,000	7,000	10,000	20,000	5,000	7,000	7,000	7,000	7,000
LA-S		20,000	30,000	20,000	70,000	20,000	100,000	50,000	70,000	50,000
MO-S		NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.
NE-S		15,000	10,000	50,000	20,000	10,000	50,000	30,000	20,000	15,000
NI-S		10,000	10,000	5,000	15,000	5,000	10,000	10,000	10,000	15,000
PE-S		20,000	20,000	20,000	30,000	15,000	15,000	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.
SC-S		INTERFER.	INTERFER.	INTERFER.	INTERFER.	-5,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.
SN-S		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	100,000	100,000	-100,000
V-S		50,000	70,000	70,000	70,000	30,000	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.
Y-S		20,000	50,000	50,000	100,000	20,000	100,000	50,000	50,000	70,000
ZN-S		INTERFER.	INTERFER.	INTERFER.	INTERFER.	-200,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S		+1000,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	10,000	5,000	5,000	5,000	10,000	5,000	5,000	10,000	5,000	10,000
PE-AA	15,000	15,000	10,000	15,000	20,000	10,000	20,000	25,000	10,000	15,000
ZN-AA	35,000	25,000	20,000	15,000	35,000	15,000	20,000	25,000	20,000	30,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI887	FAI888	FAI889	FAI890	FAI891	FAI892	FAI893	FAI894	FAI895	FAI896
NUM. CAMPO	JF0120	JF0121	JF0122	JF0123	JF0124	JF0125	JF0126	JF0127	JF0128	JF0129
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PRECISAO	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0044	0073	0074	0075	0076	0078	0077	0076	0075	0078
ORDENADA - Y	0004	0018	0018	0018	0017	0018	0024	0027	0031	0036
UTM - LAT.	450000	458000	458000	458000	458000	458000	458000	458000	458000	458000
UTM - LONG.	09200000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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.										
ID. CECLOC.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. CLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLOGIA	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. GCCOR.										
LARGURA RIO	15	10	15	15	15	15	10	15	15	20
PROFUND. RIO										
VELOC. CORR.	3	1	1	2	2	1	2	3	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA OPENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. CLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI887	FAI888	FAI885	FAI890	FAI891	FAI892	FAI893	FAI894	FAI895	FAI896
NUM. CAMPO	JF0120	JF0121	JF0122	JF0123	JF0124	JF0125	JF0126	JF0127	JF0128	JF0129
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH														
PH														
METAL TOTAL														
ANALISE 1	NU	10		NU	11		NU	12		NU	13		NU	14
ANALISE 2	ND	2		ND	2		ND	2		ND	2		ND	2
ANALISE 3			NU	11		NU	12		NU	13		NU	14	
ANALISE 4			ND	2		ND	2		ND	2		ND	2	
COND.F. LIVRE	MC11	JA21	JC21	JA21	JC21	JA21	JC21	JA21	JC21	JA21	JC21	JA21	JC21	JA21

PARAMETROS ANALITICOS

FF-S %	2,000	3,000	5,000	3,000	7,000	10,000	5,000	2,000	1,000	1,000
MG-S %	0,300	0,300	0,300	0,500	1,500	0,150	0,500	0,200	0,150	0,070
CA-S %	0,500	0,700	1,500	1,000	2,000	0,200	2,000	0,700	0,500	0,200
TI-S %	1,000	1,000	+1,000	1,000	1,000	+1,000	1,000	1,000	0,700	1,000
MY-S	700,000	1000,000	3000,000	1000,000	2000,000	5000,000	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.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
AU-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.	NAC DET.
R-S	100,000	100,000	20,000	30,000	100,000	70,000	50,000	70,000	30,000	50,000
BA-S	1500,000	1500,000	1500,000	1000,000	1000,000	1000,000	3000,000	1500,000	1500,000	1000,000
BE-S	-1,000	-1,000	-1,000	-1,000	1,500	NAO DET.	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.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	5,000	5,000	7,000	5,000	20,000	10,000	10,000	5,000	5,000	5,000
CR-S	20,000	30,000	30,000	30,000	200,000	150,000	70,000	50,000	20,000	10,000
CU-S	7,000	10,000	15,000	15,000	50,000	10,000	20,000	30,000	10,000	15,000
LA-S	30,000	30,000	20,000	20,000	150,000	100,000	20,000	20,000	-20,000	-20,000
MO-S	NAO DET.	NAO DET.	-5,000	-5,000	-5,000	NAO DET.	7,000	-5,000	NAO DET.	NAO DET.
NB-S	10,000	10,000	30,000	15,000	20,000	50,000	20,000	20,000	10,000	20,000
NI-S	15,000	15,000	20,000	20,000	70,000	10,000	30,000	10,000	7,000	5,000
PB-S	20,000	20,000	15,000	10,000	30,000	15,000	30,000	20,000	15,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	INTERFER.	-5,000	INTERFER.	INTERFER.	20,000	INTERFER.	INTERFER.	INTERFER.	-5,000	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	300,000	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	150,000	100,000	100,000	-100,000
V-S	50,000	50,000	70,000	70,000	150,000	150,000	100,000	70,000	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	20,000	30,000	50,000	100,000	150,000	30,000	15,000	10,000	15,000
ZN-S	INTERFER.	-200,000	INTERFER.	INTERFER.	-200,000	INTERFER.	INTERFER.	INTERFER.	200,000	INTERFER.
ZR-S	+1000,000	1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	+1000,000	500,000	+1000,000
CU-AA	5,000	5,000	10,000	10,000	25,000	5,000	15,000	5,000	5,000	5,000
PB-AA	10,000	10,000	20,000	15,000	25,000	20,000	20,000	5,000	5,000	5,000
ZN-AA	20,000	20,000	40,000	30,000	55,000	15,000	60,000	10,000	10,000	5,000
AG-AA	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEPAL DO PROJETO SANTANA

NUM. LAB.	FAI897	FAI898	FAI899	FAI900	FAI901	FAI902	FAI902A	FAI903	FAI904	FAI905
NUM. CAMPO	JF0130	JF0131	JF0132	JF0133	JF0134	JF0135	JF0135	JF0136	JF0137	JF0138
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	C-III	D-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0084	0084	0094	0101	0072	0071	0071	0069	0067	0066
ORDENADA - Y	0039	0047	0049	0063	0019	0019	0019	0019	0016	0011
UTM - LAT.	458000	458000	458000	458000	458000	458000	458000	458000	458000	458000
UTM - LONG.	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVICSICADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
FORM. AMOST.										
FORM. IGNEA										
SIT. ESTRUT.										
MATRIZ PFEC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPC MINEF.										
DEP. CCCC.										
LARGURA RIO	20	15	15	15	5	10	10	10	10	10
PROFUND. RIO										
VELCC. CORR.	3	2	3	3	3	2	2	2	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURE. AGUA										
POS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARRED.										
VOL. ORIGIN.										
PFSD CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPC SCLC										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI897	FAI898	FAI899	FAI900	FAI901	FAI902	FAI902A	FAI903	FAI904	FAI905
NUM. CAMPO	JF0130	JF0131	JF0132	JF0133	JF0134	JF0135	JF0135	JF0136	JF0137	JF0138
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PP										
METAL TOTAL										
ANALISE 1	NU 15		NU 16		NU 17		NU 18		NU 19	
ANALISE 2	ND 2		ND 2		ND 2		ND 2		ND 2	
ANALISE 3		NU 16		NU 17		NU 18	NU 18		NU 19	
ANALISE 4		ND 2		ND 2		ND 2	ND 2		ND 2	
CODIF. LIVRE	JC22	JA22	JC22	JA22	MC21	MA21	MA21	MC21	MA21	MC21

PARAMETROS ANALITICOS

FF-S %	2,000	1,500	3,000	5,000	3,000	2,000		2,000	1,500	1,500
HG-S %	0,200	0,200	0,100	0,300	0,200	0,300		0,200	0,100	0,200
CA-S %	0,500	0,300	0,150	0,200	1,000	0,700		1,000	0,300	0,500
TI-S %	+1,000	1,000	+1,000	1,000	+1,000	1,000		1,000	+1,000	0,700
MN-S	1000,000	300,000	1000,000	700,000	1500,000	700,000		1000,000	1000,000	700,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
AS-S	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.
B-S	100,000	30,000	50,000	30,000	50,000	50,000		50,000	70,000	20,000
BA-S	1000,000	2000,000	700,000	2000,000	1500,000	2000,000		3000,000	1000,000	2000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	-1,000		-1,000	NAO DET.	-1,000
BI-S	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.
CO-S	5,000	5,000	7,000	7,000	7,000	5,000		5,000	5,000	5,000
CR-S	20,000	100,000	30,000	50,000	20,000	30,000		20,000	500,000	20,000
CU-S	7,000	7,000	10,000	10,000	30,000	15,000		15,000	7,000	10,000
LA-S	-20,000	20,000	20,000	20,000	20,000	70,000		50,000	-20,000	-20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	NAO DET.		NAO DET.	NAO DET.	NAO DET.
NB-S	20,000	15,000	30,000	20,000	30,000	20,000		20,000	20,000	15,000
NI-S	10,000	7,000	15,000	20,000	15,000	20,000		15,000	5,000	7,000
PE-S	20,000	15,000	10,000	20,000	20,000	20,000		20,000	10,000	15,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.	INTERFER.	INTERFER.
SN-S	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		100,000	-100,000	100,000
V-S	70,000	70,000	100,000	70,000	70,000	70,000		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.
Y-S	50,000	20,000	30,000	20,000	50,000	30,000		20,000	20,000	15,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.	INTERFER.	INTERFER.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000		+1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	5,000	5,000	5,000	5,000		5,000	5,000	5,000
PP-AA	10,000	5,000	10,000	10,000	10,000	10,000		10,000	5,000	5,000
ZN-AA	15,000	10,000	10,000	15,000	20,000	25,000		25,000	15,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CO-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI906	FAI907	FAI908	FAI909	FAI910	FAI911	FAI912	FAI913	FAI914	FAI915
NUM. CAMPO	JF0139	JF0140	JF0141	JF0142	JF0143	JF0144	JF0145	JF0146	JF0147	JF0148
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0063	0059	0043	0042	0041	0041	0040	0038	0036	0034
ORDENADA - Y	0010	0010	0038	0039	0040	0042	0044	0052	0056	0060
UTM - LAT.	458000	458000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09188000	09188000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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
FORMA REG.										
ID. GEOLÓG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCO.										
LARGURA RIO	15	15	20	20	15	20	20	15	10	20
PROFUND. RIO										
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.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
FCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU AFREC.										
VOL. GRICIN.										
PESO CCNC.										
GRAULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI906	FAI907	FAI908	FAI909	FAI910	FAI911	FAI912	FAI913	FAI914	FAI915
NUM. CAMPO	JF0139	JF0140	JFC141	JF0142	JF0143	JF0144	JF0145	JF0146	JF0147	JF0148
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
FH										
PH										
METAL TOTAL										
ANALISE 1		NU 20		NU 21		NU 22		NU 23		NU 24
ANALISE 2		ND 2		ND 2		ND 2		ND 2		ND 2
ANALISE 3	NU 20		NU 21		NU 22		NU 23		NU 24	
ANALISE 4	ND 2		ND 2		ND 2		ND 2		ND 2	
CODIF. LIVRE	MA21	MC21	JA31	JC31	JA31	JC31	JA31	JC31	JA31	JC32

PARAMETROS ANALITICOS

FE-S %	3,000	5,000	2,000	5,000	3,000	3,000	3,000	5,000	3,000	2,000
MG-S %	0,500	0,500	0,200	0,150	0,300	0,500	0,100	0,500	0,200	0,300
CA-S %	1,000	2,000	0,100	0,100	0,200	0,200	0,100	0,300	0,150	0,150
TI-S %	1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000	1,000	+1,000	1,000
MN-S	1500,000	5000,000	700,000	1500,000	1000,000	500,000	700,000	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.
R-S	100,000	100,000	50,000	100,000	20,000	20,000	20,000	30,000	30,000	30,000
BA-S	3000,000	3000,000	2000,000	1000,000	1000,000	1000,000	1000,000	1500,000	1500,000	2000,000
BE-S	1,000	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.
CI-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	7,000	5,000	7,000	7,000	5,000	7,000	7,000	7,000	5,000
CR-S	30,000	30,000	20,000	20,000	20,000	30,000	20,000	50,000	30,000	70,000
CU-S	30,000	20,000	5,000	7,000	15,000	10,000	5,000	30,000	5,000	7,000
LA-S	20,000	50,000	50,000	-20,000	200,000	20,000	-20,000	30,000	20,000	20,000
MO-S	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	-5,000	-5,000
NR-S	20,000	30,000	15,000	50,000	30,000	20,000	30,000	20,000	30,000	20,000
NI-S	30,000	20,000	7,000	7,000	10,000	15,000	7,000	30,000	5,000	10,000
PE-S	30,000	30,000	30,000	20,000	30,000	20,000	15,000	50,000	20,000	30,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	7,000	INTERFER.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	150,000	100,000	100,000	100,000	-100,000	100,000	-100,000	100,000	100,000	100,000
V-S	70,000	70,000	50,000	70,000	70,000	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	30,000	50,000	30,000	20,000	30,000	200,000	10,000	20,000	50,000	30,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	-200,000	INTERFER.	INTERFER.
ZR-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000	5,000	5,000
PP-AA	10,000	15,000	5,000	10,000	10,000	10,000	5,000	20,000	10,000	10,000
ZN-AA	25,000	30,000	15,000	10,000	20,000	15,000	15,000	40,000	15,000	15,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
HI-AA										
BI-AA										
CC-AA										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI916	FAI917	FAI918	FAI919	FAI920	FAI921	FAI922	FAI923	FAI924	FAI925
NUM. CAMPO	JF0149	JF0150	JF0151	JF0152	JF0153	JF0154	JF0155	JF0156	JF0157	JF0158
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PROCEFCNCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0029	0025	0022	0019	0021	0043	0044	0046	0048	0046
ORDENADA - Y	0063	0070	0076	0086	0097	0031	0030	0035	0031	0028
UTM - LAT.	474000	474000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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.										
ID. GEOLÓG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	20	5	10	15	20	15	10	10	5	10
PROFUN. RIO										
VFLOC. CORR.	3	3	2	2	2	2	2	2	2	2
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURR. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. CRICIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

APQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI916	FAI917	FAI918	FAI919	FAI920	FAI921	FAI922	FAI923	FAI924	FAI925
NUM. CAMPO	JF0149	JF0150	JF0151	JF0152	JF0153	JF0154	JF0155	JF0156	JF0157	JF0158
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EF										
PH										
METAL TOTAL										
ANALISE 1	NU	25	NU	26	NU	27	NU	28	NU	29
ANALISE 2	ND	2	ND	2	ND	2	ND	2	ND	2
ANALISE 3	NU	25	NU	26	NU	27	NU	28	NU	29
ANALISE 4	ND	2	ND	2	ND	2	ND	2	ND	2
CODIF. LIVRE	JA32	JC32	JA32	JC32	JA32	MC31	MA31	MC31	MA31	MC31

PARAMETROS ANALITICOS

FF-S %	2,000	3,000	5,000	5,000	3,000	5,000	3,000	3,000	3,000	2,000
MG-S %	0,100	0,150	0,700	0,700	0,700	0,300	0,200	0,200	0,300	0,150
CA-S %	0,070	0,700	1,500	1,500	2,000	0,200	0,100	0,100	0,150	0,100
TI-S %	+1,000	+1,000	1,000	1,000	1,000	+1,000	+1,000	+1,000	+1,000	+1,000
MN-S	700,000	1500,000	1000,000	1000,000	1000,000	1000,000	1500,000	700,000	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	15,000	30,000	50,000	30,000	50,000	50,000	50,000	20,000	70,000	50,000
BA-S	700,000	2000,000	3000,000	3000,000	3000,000	1000,000	1000,000	1500,000	1500,000	1000,000
BF-S	NAO DET.	NAO DET.	1,500	1,500	1,000	-1,000	1,500	-1,000	-1,000	-1,000
BT-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-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	7,000	10,000	10,000	7,000	7,000	5,000	5,000	5,000	-5,000
CR-S	10,000	10,000	50,000	50,000	30,000	50,000	20,000	20,000	15,000	10,000
CU-S	5,000	7,000	30,000	20,000	20,000	7,000	7,000	5,000	7,000	-5,000
LA-S	20,000	150,000	30,000	50,000	30,000	50,000	-20,000	20,000	-20,000	-20,000
MO-S	NAO DET.	NAO DET.	5,000	5,000	-5,000	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	30,000	50,000	20,000	20,000	20,000	50,000	50,000	50,000	50,000	50,000
NI-S	-5,000	5,000	30,000	50,000	30,000	15,000	5,000	5,000	5,000	5,000
PP-S	15,000	15,000	50,000	30,000	30,000	15,000	30,000	20,000	30,000	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	INTERFER.	INTERFER.	INTERFER.	10,000	7,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
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	150,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
V-S	50,000	70,000	100,000	100,000	100,000	100,000	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	15,000	100,000	50,000	30,000	20,000	30,000	30,000	15,000	50,000	15,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	-200,000	-200,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZR-S	+1000,000	+1000,000	+1000,000	700,000	1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	20,000	20,000	15,000	5,000	5,000	5,000	5,000	-5,000
PP-AA	5,000	10,000	25,000	25,000	20,000	10,000	10,000	10,000	10,000	10,000
ZN-AA	15,000	15,000	85,000	85,000	60,000	20,000	10,000	10,000	10,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
RI-AA										
CD-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

	FAI926	FAI927	FAI927A	FAI928	FAI929	FAI920	FAI931	FAI932	FAI933	FAI934
NUM. LAE.	JF0159	JF0160	JF0160	JF0161	JF0152	JF0163	JF0164	JF0165	JF0166	JF0167
NUM. CAMPO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
C. CLSTO	310	310	310	310	310	310	310	310	310	310
S. CLSTO	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
PROFUND. PROC.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
ESCALA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
DATA										
LATITUDE										
LONGITUDE										
ABSCISSA - X	0045	0050	0050	0008	0009	0009	0010	0012	0018	0021
ORDENADA - Y	0025	0024	0024	0074	0075	0077	0078	0082	0089	0092
UTM - LAT.	474000	474000	474000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARAMETROS DESCRITIVOS DE CAMPO

	S	S	S	S	S	S	S	S	S	S
CLAS. AMOST.	B	B	B	B	B	B	B	B	B	B
TIPO AMOST.	L	L	L	L	L	L	L	L	L	L
FONTE AMOST.										
ROCHA REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSTADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTEO.										
TIPO MINER.										
DEP. OCCOR.										
LARGURA FIO	10	5	5	10	15	5	5	5	10	10
PROFUND. RIO										
VELOC. CORR.	2	2	2	1	1	1	1	1	0	0
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	1	1	1	1	1	1	1
TURB. AGLA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. ORIGIN.										
PESO ECNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI926	FAI927	FAI927A	FAI928	FAI929	FAI920	FAI931	FAI922	FAI933	FAI934
NUM. CAMPO	JF0159	JF0160	JFC160	JF0161	JF0162	JF0163	JF0164	JF0165	JF0166	JF0167
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
ANALISE 1	NU	30	NU	30	NU	31	NU	32	NU	33
ANALISE 2	ND	2	ND	2	ND	2	ND	2	ND	2
ANALISE 3	NU	30	NU	31	NU	32	NU	33	NU	34
ANALISE 4	ND	2	ND	2	ND	2	ND	2	ND	2
CODIF. LIVRE	MA31	MC31	MC31	JA41	JC41	JA41	JC41	JA41	JA41	JA41

PARAMETROS ANALITICOS

FE-S %	3,000	2,000		5,000	5,000	5,000	5,000	7,000	3,000	3,000
MG-S %	0,500	0,200		1,500	1,500	1,500	1,000	1,500	1,000	0,700
CA-S %	0,300	0,100		3,000	3,000	3,000	5,000	3,000	2,000	2,000
TI-S %	1,000	+1,000		1,000	1,000	+1,000	+1,000	1,000	+1,000	1,000
MN-S	500,000	1000,000		1500,000	1000,000	1000,000	1500,000	700,000	700,000	500,000
AG-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	0,500	NAO DET.	NAO DET.
AS-S	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.
B-S	10,000	30,000		50,000	50,000	100,000	50,000	50,000	20,000	100,000
BA-S	1500,000	1500,000		3000,000	3000,000	2000,000	3000,000	2000,000	2000,000	2000,000
BF-S	-1,000	-1,000		3,000	2,000	2,000	2,000	3,000	1,000	-1,000
BT-S	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.
CO-S	5,000	5,000		15,000	15,000	10,000	7,000	20,000	7,000	7,000
CR-S	20,000	15,000		50,000	70,000	50,000	30,000	150,000	30,000	20,000
CU-S	7,000	-5,000		50,000	30,000	30,000	30,000	50,000	20,000	15,000
LA-S	30,000	30,000		50,000	70,000	50,000	70,000	70,000	30,000	20,000
MO-S	-5,000	NAO DET.		-5,000	7,000	-5,000	5,000	10,000	5,000	-5,000
NB-S	30,000	20,000		20,000	20,000	30,000	30,000	20,000	20,000	20,000
NI-S	15,000	-5,000		50,000	50,000	50,000	30,000	100,000	30,000	20,000
PP-S	20,000	20,000		50,000	50,000	20,000	30,000	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.
SC-S	INTERFER.	INTERFER.		20,000	15,000	INTERFER.	INTERFER.	20,000	INTERFER.	7,000
SN-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SQ-S	100,000	100,000		200,000	200,000	150,000	300,000	200,000	150,000	100,000
V-S	70,000	50,000		100,000	100,000	100,000	100,000	200,000	100,000	70,000
W-S	NAO DET.	NAO DET.		NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	15,000	20,000		50,000	30,000	50,000	50,000	50,000	20,000	15,000
ZN-S	INTERFER.	INTERFER.		-200,000	200,000	INTERFER.	INTERFER.	200,000	INTERFER.	-200,000
ZR-S	+1000,000	+1000,000		1000,000	700,000	+1000,000	+1000,000	700,000	+1000,000	1000,000
CU-AA	5,000	5,000	5,000	30,000	30,000	20,000	20,000	30,000	20,000	10,000
PE-AA	10,000	10,000	10,000	30,000	25,000	25,000	25,000	35,000	20,000	15,000
ZN-AA	15,000	10,000	10,000	100,000	120,000	75,000	70,000	110,000	60,000	35,000
AG-AA	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI935	FAI936	FAI937	FAI938	FAI939	FAI940	FAI941	FAI942	FAI943	FAI944
NUM. CAMPO	JF0168	JF0169	JF0170	JF0171	JF0172	JF0173	JF0174	JF0175	JF0176	JF0177
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0024	0031	0037	0045	0052	0056	0008	0008	0008	0007
ORDENADA - Y	0094	0099	0102	0106	0120	0132	0073	0072	0070	0067
UTM - LAT.	484000	484000	484000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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
FORMA AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REG.										
ID. GEOLÓG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. CLEFT.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	A	A	A	A	A	A	C	C	A	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MAT. FIZ. PREC.										
GRAU INT. FMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCC.										
LARGURA FIO	15	10	10	10	10	25	15	2	5	3
PERFUN. RIO										
VELOC. CORR.	0	0	0	0	0	0	1	0	0	0
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA										
PCS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA										
GRAU ARREC.										
VCL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR. SEC./SL.										
HORIZ. SOLO										
TIPO SCLT										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI935	FAI936	FAI937	FAI938	FAI939	FAI940	FAI941	FAI942	FAI943	FAI944
NUM. CAMPO	JF0168	JF0169	JF0170	JF0171	JF0172	JF0173	JF0174	JF0175	JF0176	JF0177
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

FH											
PH											
METAL TOTAL											
ANALISE 1	NU	34		NU	35		NU	36		NU	38
ANALISE 2	ND	2		ND	2		ND	2		ND	2
ANALISE 3			NU	35		NU	36		NU	38	
ANALISE 4			ND	2		ND	2		ND	2	
COCIF. LIVRE	JC42	JA42	JC42	JA42	JC42	JA42	MC41	MA41	MC41	MA41	

PARAMETROS ANALITICOS

FF-S %	5,000	5,000	3,000	5,000	3,000	5,000	7,000	7,000	5,000	5,000
MG-S %	0,700	1,000	1,000	0,500	0,300	0,700	1,500	1,500	1,000	1,500
CA-S %	2,000	2,000	2,000	1,500	2,000	1,500	3,000	3,000	3,000	5,000
TI-S %	+1,000	+1,000	1,000	+1,000	+1,000	1,000	1,000	1,000	1,000	1,000
MN-S	1000,000	1000,000	700,000	2000,000	1500,000	700,000	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.	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	30,000	50,000	50,000	70,000	50,000	100,000	50,000	50,000	50,000
BA-S	3000,000	5000,000	3000,000	+5000,000	+5000,000	2000,000	2000,000	3000,000	5000,000	2000,000
BE-S	-1,000	-1,000	1,000	-1,000	-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.
CO-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	10,000	7,000	10,000	7,000	10,000	15,000	10,000	10,000	10,000
CR-S	50,000	50,000	50,000	30,000	30,000	70,000	150,000	100,000	70,000	100,000
CU-S	30,000	20,000	30,000	30,000	30,000	30,000	50,000	30,000	30,000	30,000
LA-S	100,000	30,000	30,000	500,000	50,000	30,000	200,000	70,000	50,000	50,000
MO-S	5,000	5,000	5,000	5,000	5,000	5,000	7,000	7,000	10,000	5,000
NE-S	20,000	30,000	20,000	30,000	50,000	20,000	20,000	20,000	20,000	20,000
NI-S	30,000	30,000	30,000	30,000	20,000	30,000	70,000	50,000	50,000	30,000
PR-S	30,000	15,000	50,000	30,000	70,000	30,000	50,000	50,000	30,000	50,000
SR-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.	7,000	INTERFER.	INTERFER.	10,000	20,000	20,000	15,000	15,000
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAO DET.
SR-S	200,000	150,000	150,000	150,000	200,000	100,000	150,000	200,000	300,000	300,000
V-S	100,000	100,000	70,000	100,000	100,000	100,000	100,000	100,000	70,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	70,000	20,000	15,000	300,000	100,000	50,000	100,000	30,000	50,000	30,000
ZN-S	INTERFER.	INTERFER.	200,000	INTERFER.	INTERFER.	200,000	500,000	-200,000	-200,000	-200,000
ZR-S	+1000,000	+1000,000	1000,000	+1000,000	+1000,000	1000,000	700,000	700,000	1000,000	1000,000
CU-AA	15,000	15,000	15,000	10,000	10,000	15,000	35,000	25,000	15,000	15,000
PE-AA	20,000	20,000	15,000	25,000	25,000	20,000	25,000	25,000	20,000	30,000
ZN-AA	50,000	50,000	40,000	35,000	40,000	50,000	120,000	80,000	55,000	50,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CD-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI945	FAI946	FAI947	FAI948	FAI949	FAI950	FAI951	FAI952	FAI952A	FAI953
NUM. CAMPO	JF0178	JF0179	JFC180	JF0181	JF0182	JF0183	JF0184	JF0185	JF0185	JF0186
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0006	0005	0004	0054	0054	0055	0056	0058	0058	0062
ORDENADA - Y	0063	0060	0056	0033	0034	0033	0034	0035	0035	0035
UTM - LAT.	484000	484000	484000	482000	482000	482000	482000	482000	482000	482000
UTM - LONG.	09182000	09182000	09182000	09168000	09168000	09168000	09168000	09168000	09168000	09168000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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
PONTE AMOST.	L	L	L	L	L	L	L	L	L	L
PICHA REC.										
ID. CECLCG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTERR.										
TIPC MINER.										
DEP. CCCC.										
LARGURA RIO	6	5	2	5	5	10	5	5	5	15
PROFUND. RIO										
VELOC. CORR.	1	1	0	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	2	2	2	2	2	2	2
TURB. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VCL. ORIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPC SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI945	FAI946	FAI947	FAI948	FAI949	FAI950	FAI951	FAI952	FAI952A	FAI953
NUM. CAMPO	JF0178	JF0179	JF0180	JF0181	JF0182	JF0183	JF0184	JF0185	JF0185	JF0186
AMB. BIOTICO										
PARAMETROS ANALITICOS DE CAMPO										
EH										
PH										
METAL TOTAL										
ANALISE 1	NU 39		NU 40		NU 41		NU 42			NU 43
ANALISE 2	ND 2		ND 2		ND 2		ND 2			ND 2
ANALISE 3		NU 40		NU 41		NU 42		NU 43	NU 43	
ANALISE 4		ND 2		ND 2		ND 2		ND 2	ND 2	
COEF. LIVRE	MC41	MA41	MC41	JA51	JC51	JA51	JC51	JA51	JA51	JC51

PARAMETROS ANALITICOS

FE-S %	7,000	7,000	10,000	2,000	2,000	5,000	7,000	3,000		5,000
MG-S %	1,500	1,500	2,000	0,150	0,200	0,150	0,070	0,200		0,100
CA-S %	5,000	5,000	2,000	0,300	0,500	0,500	0,200	0,500		0,300
TI-S %	1,000	1,000	0,700	+1,000	1,000	+1,000	+1,000	+1,000		+1,000
MN-S	1000,000	1000,000	700,000	700,000	1000,000	3000,000	5000,000	1500,000		1500,000
AG-S	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.
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
B-S	70,000	100,000	50,000	50,000	70,000	100,000	70,000	70,000		100,000
BA-S	+5000,000	3000,000	1500,000	3000,000	3000,000	+5000,000	+5000,000	5000,000		5000,000
BE-S	2,000	2,000	5,000	1,500	-1,000	-1,000	-1,000	-1,000		NAO DET.
BI-S	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.
CP-S	10,000	10,000	20,000	5,000	5,000	7,000	7,000	7,000		7,000
CR-S	100,000	150,000	200,000	20,000	10,000	30,000	30,000	20,000		20,000
CU-S	50,000	50,000	50,000	7,000	7,000	7,000	7,000	10,000		20,000
LA-S	70,000	70,000	200,000	-20,000	-20,000	20,000	20,000	20,000		20,000
MO-S	7,000	5,000	15,000	5,000	-5,000	-5,000	-5,000	-5,000		NAO DET.
NE-S	20,000	20,000	20,000	30,000	30,000	50,000	50,000	20,000		70,000
NI-S	70,000	70,000	150,000	5,000	10,000	-5,000	-5,000	10,000		-5,000
PE-S	50,000	30,000	70,000	20,000	20,000	20,000	15,000	20,000		20,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
SC-S	INTERFER.	20,000	30,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.
SN-S	NAO DET.	NAO DET.	10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.		NAO DET.
SR-S	300,000	300,000	200,000	100,000	100,000	100,000	-100,000	100,000		100,000
V-S	100,000	100,000	150,000	50,000	50,000	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.
Y-S	70,000	70,000	70,000	15,000	20,000	100,000	70,000	30,000		50,000
ZN-S	200,000	-200,000	200,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.		INTERFER.
ZR-S	+1000,000	700,000	200,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000		+1000,000
CU-AA	25,000	35,000	35,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
PP-AA	25,000	35,000	30,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000
ZN-AA	50,000	130,000	120,000	15,000	15,000	10,000	10,000	15,000	15,000	10,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NJ-AA										
RI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI954	FAI955	FAI956	FAI957	FAI958	FAI959	FAI960	FAI961	FAI962	FAI963
NUM. CAMPO	JF0187	JF0188	JFC189	JF0190	JF0191	JF0192	JF0193	JF0194	JF0195	JF0196
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0062	0060	0065	0071	0074	0083	0090	0053	0052	0051
ORDENADA - Y	0032	0029	0021	0022	0019	0012	0007	0034	0034	0035
UTM - LAT.	482000	482000	482000	482000	482000	482000	482000	482000	482000	482000
UTM - LONG.	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC 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										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PIED.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEF. CCCC.										
LARGURA RIO	10	10	10	10	10	15	15	10	10	15
PROFUND. RIO										
VFLOC. CORP.	3	3	3	3	3	3	3	3	3	3
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ABREC.										
VCL. FRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPC SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI954	FAI955	FAI956	FAI957	FAI958	FAI959	FAI960	FAI961	FAI962	FAI963
NUM. CAMPO	JF0187	JF0188	JF0189	JF0190	JF0191	JF0192	JF0193	JF0194	JF0195	JF0196
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

	NU	44	NU	45	NU	46	NU	47	NU	48
	ND	2	ND	2	ND	2	ND	2	ND	2
PH										
METAL TOTAL										
ANALISE 1										
ANALISE 2										
ANALISE 3	NU	44	NU	45	NU	46	NU	47	NU	48
ANALISE 4	ND	2	ND	2	ND	2	ND	2	ND	2
CONDIF. LIVRE	JA51	JC52	JA52	JC52	JA52	JC52	JA52	MC51	MA51	MC51

PARAMETROS ANALITICOS

FF-S %	7,000	7,000	2,000	3,000	3,000	5,000	5,000	2,000	3,000	3,000
MG-S %	0,150	0,150	0,150	0,100	0,150	0,200	0,100	0,300	0,100	0,100
CA-S %	0,500	0,300	0,500	0,300	0,500	0,700	0,700	1,000	0,500	0,700
TI-S %	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	+1,000	1,000	+1,000	+1,000
MN-S	3000,000	3000,000	700,000	2000,000	1500,000	5000,000	3000,000	700,000	1500,000	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.
AL-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	50,000	20,000	50,000	20,000	50,000	50,000	50,000	70,000	100,000
BA-S	+5000,000	+5000,000	3000,000	+5000,000	+5000,000	+5000,000	+5000,000	5000,000	5000,000	5000,000
BF-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-1,000	NAO DET.	NAO DET.
BT-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-S	7,000	7,000	5,000	5,000	5,000	7,000	10,000	5,000	5,000	5,000
CR-S	150,000	20,000	15,000	20,000	15,000	20,000	70,000	150,000	10,000	10,000
CU-S	7,000	7,000	7,000	15,000	7,000	10,000	15,000	20,000	5,000	7,000
LA-S	20,000	20,000	20,000	20,000	20,000	20,000	50,000	20,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	5,000	NAO DET.	-5,000	5,000	NAO DET.	5,000	NAO DET.	-5,000
NB-S	50,000	50,000	20,000	50,000	50,000	50,000	50,000	10,000	30,000	50,000
NI-S	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	10,000	-5,000	-5,000
PE-S	20,000	30,000	15,000	15,000	20,000	30,000	30,000	30,000	30,000	30,000
SE-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	5,000	INTERFER.	INTERFER.
SN-S	NAO DET.	NAO DET.	-10,000	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	100,000	100,000	100,000	100,000	100,000	150,000	100,000	150,000	100,000	100,000
V-S	70,000	70,000	50,000	70,000	70,000	70,000	150,000	50,000	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	70,000	500,000	15,000	30,000	150,000	70,000	150,000	10,000	20,000	30,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZP-S	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	+1000,000	1000,000	+1000,000	+1000,000
CU-AA	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
PE-AA	10,000	15,000	10,000	10,000	10,000	15,000	10,000	10,000	10,000	10,000
ZN-AA	10,000	10,000	15,000	10,000	15,000	15,000	10,000	20,000	10,000	10,000
AG-AA	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI964	FAI965	FAI966	FAI967	FAI968 A	FAI968 B	FAI969 A	FAI969 B	FAI970 A	FAI970 B
NUM. CAMPO	JF0197	JF0198	JFC199	JF0200	JF0001	JF0001	JF0002	JF0002	JF0003	JF0003
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI	D-VI	D-VI	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
FSCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0048	0045	0043	0041	0047	0047	0048	0048	0049	0049
ORDENADA - Y	0037	0037	0036	0041	0013	0013	0014	0014	0014	0014
UTM - LAT.	482000	482000	482000	482000	450000	450000	450000	450000	450000	450000
UTM - LONG.	09168000	09168000	09168000	09168000	09200000	09200000	09200000	09200000	09200000	09200000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMCST.	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.										
TDO. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TCCPG.	A	A	A	A	A	A	A	A	A	A
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMCST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIC	15	15	5	10	20	20	20	20	20	20
PERFUND. RIC										
VELOC. CORR.	3	3	3	3	3	3	4	4	4	4
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU AFREC.										
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPO SCLD										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FA1964	FA1965	FA1966	FA1967	FA1968 A	FA1968 B	FA1969 A	FA1969 B	FA1970 A	FA1970 B
NUM. CAMPO	JF0197	JF0198	JF0199	JF0200	JF0001	JF0001	JF0002	JF0002	JF0003	JF0003
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH	PH	METAL TOTAL	ANALISE 1	ANALISE 2	ANALISE 3	ANALISE 4	CONDIF. LIVRE	MA51	MC51	MA51	MC51	J011	J011	J011C	J011C	J011	J011
			NU 49	ND 2	NU 49	ND 2						NU 1	ND 1	NU 1	ND 1	NU 2	ND 2
												NU 1	ND 1	NU 1	ND 1	NU 1	ND 1
												J011	J011	J011C	J011C	J011	J011

PARAMETROS ANALITICOS

FF-S %	5,000	7,000	1,500	5,000	0,700	2,000	0,700	1,500	0,300	2,000
MG-S %	0,100	0,150	0,150	0,100	0,070	0,200	0,100	0,300	0,030	0,500
CA-S %	0,700	0,700	0,500	0,700	0,150	0,700	0,150	0,500	0,070	0,100
TI-S %	+1,000	+1,000	1,000	+1,000	0,300	1,000	0,150	0,700	0,150	1,000
MN-S	2000,000	5000,000	1000,000	5000,000	300,000	1000,000	200,000	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	100,000	70,000	150,000	50,000	100,000	150,000	15,000	50,000	100,000	150,000
BA-S	+5000,000	+5000,000	3000,000	+5000,000	1000,000	2000,000	1000,000	2000,000	700,000	3000,000
BE-S	NAO DET.	NAO DET.	-1,000	NAO DET.	-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.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CP-S	7,000	10,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000
CR-S	15,000	30,000	10,000	30,000	-10,000	20,000	-10,000	20,000	-10,000	30,000
CU-S	20,000	20,000	30,000	7,000	7,000	7,000	7,000	5,000	7,000	10,000
LA-S	-20,000	-20,000	50,000	50,000	30,000	20,000	20,000	20,000	30,000	20,000
MO-S	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NB-S	50,000	30,000	15,000	50,000	10,000	15,000	10,000	15,000	-10,000	15,000
NI-S	-5,000	-5,000	-5,000	-5,000	-5,000	20,000	-5,000	15,000	-5,000	20,000
PB-S	30,000	50,000	30,000	30,000	-10,000	20,000	-10,000	20,000	NAO DET.	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	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	150,000	150,000	100,000	150,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	70,000	70,000	30,000	100,000	30,000	70,000	30,000	50,000	20,000	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	150,000	15,000	200,000	NAO DET.	20,000	NAO DET.	15,000	NAO DET.	20,000
ZN-S	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZN-C	+1000,000	+1000,000	+1000,000	+1000,000	150,000	+1000,000	200,000	+1000,000	150,000	+1000,000
CU-AA	5,000	5,000	-5,000	-5,000	-5,000	5,000	-5,000	5,000	-5,000	10,000
PH-AA	10,000	15,000	5,000	15,000	5,000	15,000	5,000	10,000	5,000	20,000
ZN-AA	10,000	15,000	10,000	10,000	5,000	35,000	5,000	15,000	5,000	30,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TF-AA AU-AA SC-AA MN-AA	FAI964 JF0197	FAI965 JF0198	FAI966 JFC199	FAI967 JF0200	FAI968 A JF0001	FAI968 B JF0001	FAI969 A JF0002	FAI969 B JF0002	FAI970 A JF0003	FAI970 B JF0003
					1500,000	5000,000	1800,000	3600,000	1100,000	7300,000
					70,000	210,000	85,000	140,000	50,000	290,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FA1971 A	FA1971 B	FA1972 A	FA1972 B	FA1973 A	FA1973 B	FA1974 A	FA1974 B	FA1975 A	FA1975 B
NUM. CAMPO	JF0004	JF0004	JF0005	JF0005	JF0006	JF0006	JF0007	JF0007	JF0008	JF0008
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PERCECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0051	0051	0054	0054	0058	0058	0061	0061	0063	0063
ORDENADA - Y	0015	0015	0016	0016	0022	0022	0024	0024	0027	0027
UTM - LAT.	450000	450000	450000	450000	450000	450000	450000	450000	450000	450000
UTM - LONG.	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PFC.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. COCCO.										
LARGURA RIO	20	20	5	5	15	15	10	10	20	2
PROFUN. RIO										
VELOC. CORR.	4	4	2	2	2	2	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. CRICIN.										
PFSC CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPC SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI971 A	FAI971 B	FAI972 A	FAI972 B	FAI973 A	FAI973 B	FAI974 A	FAI974 B	FAI975 A	FAI975 B
NUM. CAMPO	JF0004	JF0004	JF0005	JF0005	JF0006	JF0006	JF0007	JF0007	JF0008	JF0008
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

FF										
PH										
METAL TOTAL										
ANALISE 1	NU	2	NU	2	NU	3	NU	3	NU	4
ANALISE 2	ND	1	ND	1	ND	1	ND	1	ND	1
ANALISE 3					NU	3	NU	3	NU	4
ANALISE 4					ND	1	ND	1	ND	1
CODIF. LIVRE	J011C	J011C	J011C	J011C	J011C	J011C	J011C	J011C	J011C	J012C

PARAMETROS ANALITICOS

FF-S %	0,500	2,000	0,700	2,000	0,300	2,000	0,700	3,000	0,700	2,000
MG-S %	0,030	0,200	0,050	0,500	0,030	0,200	0,050	0,500	0,030	0,500
CA-S %	0,100	0,500	0,150	0,700	0,100	0,300	0,150	0,700	0,100	0,500
TI-S %	0,150	1,000	0,100	0,500	0,070	+1,000	0,700	+1,000	0,700	1,000
MN-S	200,000	1000,000	200,000	700,000	150,000	1500,000	300,000	1500,000	200,000	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	15,000	70,000	50,000	20,000	15,000	150,000	20,000	100,000	20,000	100,000
BA-S	700,000	2000,000	700,000	3000,000	700,000	2000,000	700,000	3000,000	700,000	2000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000	-1,000
BT-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CC-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	5,000	5,000	5,000	5,000	5,000	7,000	5,000	5,000
CR-S	-10,000	20,000	-10,000	30,000	-10,000	20,000	-10,000	100,000	-10,000	30,000
CU-S	30,000	10,000	7,000	10,000	7,000	7,000	7,000	10,000	7,000	7,000
LA-S	20,000	20,000	30,000	30,000	30,000	150,000	20,000	200,000	20,000	300,000
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	20,000	-10,000	10,000	-10,000	20,000	10,000	20,000	10,000	15,000
NT-S	-5,000	15,000	-5,000	20,000	-5,000	15,000	-5,000	20,000	-5,000	20,000
PE-S	-10,000	20,000	-10,000	20,000	NAO DET.	30,000	-10,000	20,000	NAO DET.	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	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
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.	-100,000	NAO DET.	150,000	NAO DET.	-100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	30,000	50,000	30,000	70,000	15,000	70,000	20,000	70,000	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	NAO DET.	15,000	NAO DET.	20,000	NAO DET.	50,000	NAO DET.	50,000	NAO DET.	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	150,000	+1000,000	150,000	+1000,000	150,000	+1000,000	500,000	+1000,000	700,000	+1000,000
CU-AA	-5,000	5,000	-5,000	10,000	-5,000	5,000	-5,000	10,000	-5,000	5,000
PE-AA	5,000	15,000	5,000	15,000	5,000	15,000	5,000	15,000	5,000	10,000
ZN-AA	5,000	20,000	10,000	30,000	10,000	20,000	15,000	25,000	10,000	25,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
CO-AA										
NI-AA										
BT-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## ARQUIVO GEPAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TF-AA AU-AA	FAI971 A JF0004	FAI971 B JF0004	FAI972 A JF0005	FAI972 B JF0005	FAI973 A JF0006	FAI973 B JF0006	FAI974 A JF0007	FAI974 B JF0007	FAI975 A JF0008	FAI975 B JF0008
	1400,000	4200,000	2500,000	6900,000	950,000	4800,000	1500,000	6100,000	1800,000	5900,000
	65,000	180,000	130,000	280,000	35,000	170,000	70,000	220,000	80,000	170,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEPAL DO PROJETO SANTANA

NUM. LAB.	FA1976 A	FA1976 B	FA1977 A	FA1977 B	FA1977AA	FA1977AB	FA1978 A	FA1978 B	FA1979 A	FA1979 B
NUM. CAMPO	JF0009	JF0009	JF0010	JF0010	JF0010	JF0010	JF0011	JF0011	JF0012	JF0012
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	C-III	D-III	C-III	D-III	C-III	D-III	C-III	D-III	C-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE -										
LONGITUDE -										
ABCISSA - X	0070	0070	0072	0072	0072	0072	0084	0084	0098	0098
ORDENADA - Y	0033	0033	0033	0033	0033	0033	0032	0032	0041	0041
UTM - LAT.	450000	450000	450000	450000	450000	450000	450000	450000	450000	450000
UTM - LONG.	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOLOGIA	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTIMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCOR.										
LARGURA FIO	10	10	10	10	10	10	15	15	10	10
PROFUND. RIO										
VELOC. CORR.	3	3	2	2	2	2	3	3	2	2
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA CFENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGLA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU AFRED.										
VOL. CRICIN.										
PFSC CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPO SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI976 A	FAI976 B	FAI977 A	FAI977 B	FAI977AA	FAI977AB	FAI978 A	FAI978 B	FAI979 A	FAI979 B
NUM. CAMPO	JF0009	JF0009	JF0010	JF0010	JF0010	JF0010	JF0011	JF0011	JF0012	JF0012
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EP													
PH													
METAL TOTAL													
ANALISE 1			NU	5	NU	5	NU	5	NU	5		NU	6
ANALISE 2			ND	1	ND	1	ND	1	ND	1		ND	1
ANALISE 3	NU	5	NU	5									
ANALISE 4	ND	1	ND	1									
CODIF. LIVRE	J012	J012	J012C	J012C	J012C	J012C	J012	J012	J012C	J012C		J012C	J012C

PARAMETROS ANALITICOS

FF-S %	0,700	3,000	0,700	3,000			0,700	2,000	0,500	2,000
MG-S %	0,070	0,500	0,070	0,500			0,050	0,300	0,030	0,300
CA-S %	0,200	1,000	0,150	0,700			0,200	0,500	0,150	0,500
TI-S %	0,500	1,000	0,200	1,000			0,700	+1,000	0,200	1,000
MN-S	300,000	1000,000	200,000	1000,000			500,000	1000,000	300,000	1000,000
AG-S	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.
AL-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	50,000	50,000	15,000	50,000			50,000	30,000	15,000	50,000
BA-S	1000,000	3000,000	1000,000	3000,000			700,000	2000,000	700,000	3000,000
BE-S	-1,000	-1,000	-1,000	-1,000			-1,000	-1,000	-1,000	-1,000
BT-S	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.
CO-S	5,000	7,000	5,000	5,000			5,000	5,000	5,000	5,000
CR-S	-10,000	50,000	-10,000	30,000			-10,000	15,000	-10,000	15,000
CU-S	15,000	20,000	10,000	15,000			7,000	7,000	7,000	7,000
LA-S	20,000	20,000	20,000	300,000			30,000	50,000	20,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	15,000	15,000	-10,000	20,000			30,000	20,000	10,000	20,000
NI-S	-5,000	30,000	-5,000	30,000			-5,000	15,000	-5,000	15,000
PR-S	NAO DET.	50,000	-10,000	20,000			-10,000	20,000	-10,000	20,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S	NAO DET.	INTERFER.	NAO DET.	INTERFER.			NAO DET.	INTERFER.	NAO DET.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			NAO DET.	NAO DET.	NAO DET.	NAO DET.
SP-S	NAO DET.	150,000	NAO DET.	150,000			NAO DET.	100,000	NAO DET.	100,000
V-S	30,000	70,000	30,000	70,000			30,000	70,000	20,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	NAO DET.	30,000	NAO DET.	50,000			NAO DET.	20,000	NAO DET.	20,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.			NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	500,000	+1000,000	150,000	+1000,000			150,000	+1000,000	1000,000	+1000,000
CU-AA	5,000	10,000	5,000	10,000	5,000	10,000	5,000	5,000	-5,000	5,000
PR-AA	10,000	15,000	5,000	20,000	5,000	20,000	10,000	20,000	5,000	15,000
ZN-AA	10,000	35,000	10,000	25,000	10,000	30,000	10,000	20,000	5,000	20,000
AG-AA	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRM

CADASTRO GEOQUIMICO

15.01.76

FLA. 39

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAI976 A JF0009	FAI976 B JF0009	FAI977 A JFCC10	FAI977 B JF0010	FAI977AA JF0010	FAI977AB JF0010	FAI978 A JF0C11	FAI978 B JFCC11	FAI979 A JFCC12	FAI979 B JF0012
	2500,000	8800,000	2200,000	7000,000	2200,000	7900,000	2000,000	4800,000	1700,000	5500,000
	120,000	250,000	95,000	260,000	95,000	240,000	90,000	190,000	70,000	180,000



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI980 A	FAI980 B	FAI981 A	FAI981 B	FAI982 A	FAI982 B	FAI983 A	FAI983 B	FAI984 A	FAI984 B
NUM. CAMPO	JF0013	JF0013	JF0014	JF0014	JF0015	JF0015	JF0016	JF0016	JF0017	JF0017
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PREFERENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA + X	0114	0114	0046	0046	0045	0045	0044	0044	0042	0042
ORDENADA - Y	0044	0044	0013	0013	0013	0013	0012	0012	0011	0011
UTM - LAT.	450000	450000	450000	450000	450000	450000	450000	450000	450000	450000
UTM - LONG.	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000	09200000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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.										
ID. CECLEC.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLT.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. APOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTIMP.										
TIPO ALTEP.										
TIPO MINEP.										
DEP. CCCC.										
LARGURA FIO	20	20	15	15	15	15	10	10	15	15
PROFUND. RIO										
VELOC. CORR.	3	3	3	3	3	3	3	3	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DESNAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR ACUA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SOLO										
TIPO SOLO										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI980 A	FAI980 B	FAI981 A	FAI981 B	FAI982 A	FAI982 B	FAI983 A	FAI983 B	FAI984 A	FAI984 B
NUM. CAMPO	JF0013	JF0013	JFCC14	JF0014	JF0015	JF0015	JF0016	JFCC16	JF0017	JF0017
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EH											
PH											
METAL TOTAL											
ANALISE 1			NU 7	NL 7							
ANALISE 2			ND 1	NC 1							
ANALISE 3	NU 7	NL 7			NU 8	NL 8					
ANALISE 4	ND 1	NC 1			ND 1	NC 1					
COEF. LIVRE	J012	J012	M011C	M011C	M011	M011	M011C	M011C	M011	M011	

PARAMETROS ANALITICOS

FE-S %	0,500	3,000	0,700	3,000	0,700	1,500	0,500	1,500	0,700	3,000
MG-S %	0,030	0,150	0,050	0,300	0,070	0,200	0,070	0,200	0,070	0,300
CA-S %	0,100	0,300	0,150	0,500	0,150	0,300	0,150	0,500	0,150	0,500
TI-S %	0,300	+1,000	0,500	+1,000	0,100	1,000	0,300	1,000	0,500	1,000
MN-S	200,000	1500,000	300,000	1000,000	150,000	700,000	200,000	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	10,000	100,000	10,000	70,000	100,000	70,000	15,000	70,000
BA-S	70,000	3000,000	700,000	2000,000	1000,000	2000,000	1000,000	1500,000	1000,000	2000,000
BF-S	-1,000	NAO DET.	-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.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CU-S	5,000	5,000	5,000	5,000	5,000	5,000	5,000	-5,000	5,000	5,000
CR-S	-10,000	20,000	-10,000	70,000	-10,000	15,000	-10,000	10,000	-10,000	20,000
CL-S	5,000	5,000	-5,000	10,000	20,000	5,000	7,000	5,000	15,000	7,000
LA-S	30,000	50,000	30,000	20,000	30,000	20,000	30,000	20,000	30,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	-10,000	30,000	-10,000	30,000	-10,000	15,000	-10,000	15,000	10,000	20,000
NI-S	-5,000	10,000	-5,000	20,000	-5,000	10,000	-5,000	10,000	-5,000	20,000
PE-S	NAO DET.	20,000	NAO DET.	20,000	-10,000	20,000	NAO DET.	15,000	-10,000	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.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
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.	-100,000	NAO DET.	100,000	NAO DET.	-100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	20,000	70,000	30,000	70,000	30,000	70,000	20,000	70,000	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	NAO DET.	30,000	NAO DET.	30,000	-10,000	15,000	NAO DET.	15,000	-10,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	500,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	700,000	+1000,000	150,000	+1000,000	700,000	+1000,000	200,000	+1000,000	700,000	+1000,000
CU-AA	-5,000	5,000	-5,000	5,000	5,000	5,000	-5,000	5,000	5,000	5,000
PF-AA	5,000	15,000	5,000	15,000	5,000	10,000	5,000	10,000	5,000	15,000
ZN-AA	5,000	15,000	10,000	25,000	10,000	15,000	5,000	20,000	10,000	25,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
HI-AA										
CO-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAI980 A JF0013	FAI980 B JF0013	FAI981 A JF0014	FAI981 B JF0014	FAI982 A JF0015	FAI982 B JF0015	FAI983 A JF0016	FAI983 B JF0016	FAI984 A JF0017	FAI984 B JF0017
	1800,000	3700,000	1800,000	5600,000	2100,000	3600,000	1100,000	4000,000	2100,000	5900,000
	65,000	150,000	75,000	180,000	70,000	110,000	55,000	170,000	70,000	160,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO CEPAL DO PROJETO SANTANA

NUM. LAB.	FAI985 A	FAI985 B	FAI986 A	FAI986 B	FAI987 A	FAI987 B	FAI988 A	FAI988 B	FAI989 A	FAI989 B
NUM. CAMPO	JF0018	JF0018	JF0019	JF0019	JF0020	JF0020	JF0021	JF0021	JF0022	JF0022
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PROCECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0042	0042	0043	0043	0044	0044	0073	0073	0074	0074
ORDENADA - Y	0008	0008	0006	0006	0004	0004	0018	0018	0018	0018
UTM - LAT.	450000	450000	450000	450000	450000	450000	458000	458000	458000	458000
UTM - LONG.	09200000	09200000	09200000	09200000	09200000	09200000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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.										
ID. CIRCULO	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREG.										
GRAU INTERR.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	15	15	10	10	15	15	10	10	15	15
PROFUND. RIO										
VELOC. CORR.	1	1	2	2	3	3	1	1	1	1
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGUA										
GRAU AFREC.										
VOL. CRIGIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
CCR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI985 A	FAI985 B	FAI986 A	FAI986 B	FAI987 A	FAI987 B	FAI988 A	FAI988 B	FAI989 A	FAI989 B
NUM. CAMPO	JF0018	JF0018	JF0019	JF0019	JF0020	JF0020	JF0021	JF0021	JF0022	JF0022
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EF												
PH												
METAL TOTAL												
ANALISE 1	NU	S	NU	S	NU	10	NU	10	NU	11	NU	11
ANALISE 2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
ANALISE 3					NU	10	NU	10				
ANALISE 4					ND	1	ND	1				
CODIF. LIVRE	M011C	M011C	M011	M011	M011C	M011C	J021	J021	J021C	J021C		

PARAMETROS ANALITICOS

FE-S %	0,500	2,000	0,700	3,000	0,300	2,000	0,700	1,500	0,700	3,000
MG-S %	0,070	0,300	0,070	0,700	0,050	0,500	0,070	0,200	0,050	0,300
CA-S %	0,100	0,500	0,150	0,700	0,100	0,700	0,300	0,700	0,150	1,000
TI-S %	0,300	+1,000	0,500	1,000	0,200	1,000	0,500	0,700	0,700	+1,000
MN-S	200,000	1000,000	200,000	1000,000	150,000	1000,000	300,000	1500,000	300,000	3000,000
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.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S	20,000	50,000	15,000	100,000	100,000	20,000	10,000	30,000	50,000	30,000
BA-S	700,000	3000,000	1000,000	3000,000	700,000	5000,000	1000,000	1500,000	700,000	3000,000
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.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CR-S	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
CU-S	-10,000	10,000	-10,000	30,000	-10,000	20,000	-10,000	20,000	-10,000	15,000
LA-S	7,000	5,000	20,000	10,000	-5,000	10,000	15,000	5,000	7,000	10,000
MO-S	20,000	20,000	30,000	20,000	30,000	20,000	30,000	20,000	20,000	20,000
NB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
NI-S	10,000	20,000	15,000	20,000	-10,000	20,000	10,000	10,000	15,000	20,000
NR-S	-5,000	10,000	-5,000	30,000	-5,000	20,000	5,000	10,000	-5,000	15,000
PE-S	-10,000	20,000	-10,000	30,000	-10,000	30,000	-10,000	15,000	NAO DET.	20,000
SP-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	-5,000	NAO DET.	INTERFER.
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.	100,000	NAO DET.	100,000	NAO DET.	150,000	NAO DET.	100,000	NAC DET.	100,000
V-S	20,000	70,000	30,000	70,000	30,000	70,000	30,000	50,000	30,000	70,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	-10,000	30,000	NAO DET.	20,000	NAO DET.	30,000	NAO DET.	10,000	NAC DET.	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	+1000,000	+1000,000	200,000	+1000,000	100,000	+1000,000	500,000	1000,000	100,000	+1000,000
CU-AA	5,000	5,000	5,000	10,000	5,000	10,000	5,000	5,000	5,000	5,000
PB-AA	5,000	10,000	5,000	15,000	5,000	10,000	5,000	10,000	5,000	10,000
ZN-AA	5,000	15,000	5,000	30,000	5,000	25,000	10,000	15,000	10,000	20,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAC DET.	INTERFER.	NAO DET.	INTERFER.	NAC DET.
CO-AA										
NI-AA										
BI-AA										
CI-AA										

CFRM CACASTRO GEOQUIMICO

15.01.76 FLA. 45

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FA1985 A JF0018	FA1985 B JF0018	FA1986 A JFCC19	FA1986 B JF0019	FA1987 A JF0020	FA1987 B JF0020	FA1988 A JF0021	FA1988 B JF0021	FA1989 A JF0022	FA1989 B JF0022
	1500,000	3000,000	1500,000	7300,000	1600,000	6300,000	3100,000	6200,000	3300,000	6900,000
	50,000	110,000	65,000	220,000	60,000	190,000	320,000	610,000	280,000	680,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI990 A	FAI990 B	FAI991 A	FAI991 B	FAI992 A	FAI992 B	FAI993 A	FAI993 B	FAI994 A	FAI994 B
NUM. CAMPO	JF0023	JF0023	JF0024	JF0024	JF0025	JF0025	JF0026	JF0026	JF0027	JF0027
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECECENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AC
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0075	0075	0076	0076	0078	0078	0077	0077	0076	0076
ORDENADA - Y	0018	0018	0017	0017	0018	0018	0024	0024	0027	0027
UTM - LAT.	458000	458000	458000	458000	458000	458000	458000	458000	458000	458000
UTM - LONG.	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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
FORMA AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.										
ID. CECLEG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCC.										
LARGURA RIO	15	15	15	15	15	15	10	10	15	15
PERFUN. RIO										
VELOC. CORR.	2	2	2	2	1	1	2	2	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DEENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.210

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FA1990 A	FA1990 B	FA1991 A	FA1991 B	FA1992 A	FA1992 B	FA1993 A	FA1993 B	FA1994 A	FA1994 B
NUM. CAMPO	JF0023	JF0023	JF0024	JF0024	JF0025	JF0025	JF0026	JF0026	JF0027	JF0027
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

FF														
PH														
METAL TOTAL														
ANALISE 1			NU	12	NU	12			NU	13	NU	13		
ANALISE 2			ND	1	ND	1			ND	1	ND	1		
ANALISE 3	NU	12	NU	12			NU	13	NU	13			NU	14
ANALISE 4	ND	1	ND	1			ND	1	ND	1			ND	1
CODIF. LIVRE	J021		J021		J021C		J021		J021C		J021C		J021	

PARAMETROS ANALITICOS

FE-S %	0,700	5,000	0,700	3,000	1,500	10,000	0,700	5,000	0,300	2,000
MG-S %	0,070	0,500	0,150	0,500	0,070	0,200	0,150	0,700	0,070	0,150
CA-S %	0,200	1,500	0,150	0,700	0,100	0,300	0,300	1,500	0,150	0,700
TI-S %	0,500	+1,000	0,150	1,000	+1,000	+1,000	0,150	1,000	0,070	+1,000
MN-S	300,000	1500,000	150,000	500,000	700,000	+5000,000	200,000	1500,000	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	150,000	15,000	100,000	15,000	70,000	10,000	50,000	10,000	50,000
BA-S	1000,000	2000,000	700,000	2000,000	1500,000	2000,000	700,000	3000,000	700,000	2000,000
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.	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	5,000	7,000	5,000	7,000	5,000	10,000	5,000	10,000	5,000	5,000
CR-S	-10,000	50,000	-10,000	30,000	-10,000	50,000	-10,000	50,000	-10,000	30,000
CU-S	7,000	20,000	10,000	20,000	10,000	20,000	20,000	100,000	7,000	20,000
LA-S	-30,000	20,000	20,000	20,000	20,000	100,000	30,000	20,000	-30,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	5,000	NAO DET.	NAO DET.
NB-S	10,000	30,000	-10,000	10,000	20,000	50,000	-10,000	20,000	-10,000	20,000
NI-S	5,000	30,000	5,000	20,000	5,000	15,000	5,000	30,000	-5,000	10,000
PP-S	NAO DET.	20,000	10,000	20,000	NAO DET.	30,000	10,000	70,000	-10,000	15,000
SP-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.	INTERFER.	NAO DET.	5,000	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
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.	100,000	NAO DET.	100,000	NAO DET.	-100,000	NAO DET.	150,000	NAO DET.	100,000
V-S	30,000	100,000	30,000	50,000	50,000	100,000	30,000	70,000	15,000	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	NAO DET.	20,000	NAO DET.	20,000	NAO DET.	200,000	NAO DET.	15,000	NAO DET.	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	-200,000	NAO DET.	-200,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZR-S	150,000	+1000,000	150,000	1000,000	700,000	+1000,000	100,000	+1000,000	100,000	+1000,000
CU-AA	5,000	10,000	5,000	10,000	-5,000	5,000	5,000	20,000	-5,000	-5,000
PE-AA	5,000	10,000	5,000	15,000	5,000	20,000	5,000	20,000	-5,000	5,000
ZN-AA	5,000	25,000	10,000	20,000	5,000	15,000	15,000	50,000	5,000	10,000
AG-AA	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
RI-AA										
CD-AA										



CPRM CACASTRO GEOQUIMICO

15.01.76 FLA. 48

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FA1990 A JF0023	FA1990 B JF0023	FA1991 A JF0024	FA1991 B JF0024	FA1992 A JF0025	FA1992 B JF0025	FA1993 A JF0026	FA1993 B JF0026	FA1994 A JF0027	FA1994 B JF0027
	1800,000	5800,000	2700,000	6300,000	2100,000	4700,000	2900,000	9800,000	1400,000	2900,000
	130,000	500,000	80,000	160,000	140,000	320,000	130,000	460,000	190,000	300,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI995 A	FAI995 B	FAI996 A	FAI996 B	FAI997 A	FAI997 B	FAI998 A	FAI998 B	FAI999 A	FAI999 B
NUM. CAMPO	JF0028	JF0028	JFC029	JF0029	JF0030	JF0030	JF0031	JF0031	JF0032	JF0032
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0075	0075	0078	0078	0084	0084	0084	0084	0094	0094
ORDENADA - Y	0031	0031	0036	0036	0039	0039	0047	0047	0049	0049
UTM - LAT.	458000	458000	458000	458000	458000	458000	458000	458000	458000	458000
UTM - LONG.	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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
POCHA REC.										
IC. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. QUCCO.										
LARGURA FIO	15	15	20	20	20	20	15	15	15	15
PROFUND. RIO										
VELOC. CORR.	2	2	2	2	3	3	2	2	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURE. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGLA										
GRAU AFREC.										
VOL. ORIGIN.										
PESO COCCO.										
GRANULOMET.										
TEXT. SECIM.										
CCR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAI995 A	FAI995 B	FAI996 A	FAI996 B	FAI997 A	FAI997 B	FAI998 A	FAI998 B	FAI999 A	FAI999 B
NUM. CAMPO	JF0028	JF0028	JF0029	JF0029	JF0030	JF0030	JF0031	JF0031	JF0032	JF0032
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH	PH	METAL TOTAL	ANALISE 1	ANALISE 2	ANALISE 3	ANALISE 4	CODIF. LIVRE	NU	NU	NU	NU	NU	NU	NU	NU	NU
			NU 14	ND 1		ND 1		14	14	15	15	16	16	16	16	16
			ND 1	ND 1		ND 1		1	1	1	1	1	1	1	1	1
								J022C	J022C	J022	J022	J022	J022	J022C	J022C	J022C

PARAMETROS ANALITICOS

FF-S %	0,500	2,000	0,500	2,000	0,300	2,000	1,000	2,000	0,500	5,000
MG-S %	0,050	0,200	0,070	0,100	0,050	0,200	0,050	0,200	0,030	0,200
CA-S %	0,100	0,500	0,150	0,300	0,100	0,500	0,200	0,300	-0,050	0,200
TI-S %	0,200	+1,000	0,200	+1,000	0,070	1,000	+1,000	1,000	0,500	+1,000
MN-S	150,000	1000,000	300,000	1000,000	300,000	1000,000	700,000	700,000	200,000	1500,000
AG-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-0,500	NAO DET.
AC-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	30,000	70,000	15,000	100,000	50,000	70,000	-10,000	50,000	-10,000	150,000
BA-S	700,000	1500,000	700,000	1500,000	500,000	1000,000	3000,000	1000,000	200,000	700,000
BE-S	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.
BT-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	-5,000	5,000	-5,000	-5,000	5,000	-5,000	-5,000	5,000
CR-S	-10,000	70,000	-10,000	20,000	-10,000	20,000	-10,000	20,000	-10,000	20,000
CU-S	-5,000	7,000	-5,000	5,000	-5,000	7,000	7,000	20,000	7,000	30,000
LA-S	30,000	70,000	30,000	20,000	30,000	20,000	20,000	20,000	20,000	70,000
MO-S	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.
NB-S	-10,000	20,000	15,000	10,000	-10,000	10,000	50,000	10,000	10,000	30,000
NI-S	-5,000	10,000	-5,000	5,000	-5,000	10,000	-5,000	10,000	-5,000	15,000
PE-S	NAO DET.	15,000	-10,000	15,000	NAO DET.	15,000	-10,000	15,000	NAO DET.	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	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	-5,000	NAO DET.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SP-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	15,000	50,000	20,000	30,000	15,000	30,000	30,000	30,000	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	NAO DET.	30,000	NAO DET.	15,000	NAO DET.	10,000	NAO DET.	150,000	NAO DET.	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	150,000	+1000,000	500,000	+1000,000	150,000	+1000,000	500,000	1000,000	100,000	+1000,000
CU-AA	-5,000	5,000	-5,000	-5,000	-5,000	5,000	-5,000	5,000	-5,000	5,000
PR-AA	5,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000
ZN-AA	5,000	10,000	5,000	5,000	5,000	10,000	5,000	10,000	5,000	15,000
AG-AA	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NIM. CAMPO TE-AA AL-AA	FA1995 A JFU028	FA1995 B JFU028	FA1996 A JF0029	FA1996 B JF0029	FA1997 A JF0030	FA1997 B JF0030	FA1998 A JF0031	FA1998 B JF0031	FA1999 A JF0032	FA1999 B JF0032
	1500,000	4000,000	1800,000	2900,000	1500,000	3400,000	2000,000	3400,000	1400,000	5400,000
	80,000	170,000	130,000	180,000	150,000	240,000	80,000	90,000	40,000	110,000

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ001 A	FAJ001 B	FAJCC2 A	FAJ002 B	FAJ003 A	FAJ003 B	FAJ003AA	FAJCC3AB	FAJCC4 A	FAJ004 B
NUM. CAMPO	JF0033	JF0033	JFC034	JF0034	JF0035	JF0035	JF0035	JFCC35	JF0036	JF003
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PFCEDENCIA	AD	AD	AD	AD	AD	AC	AC	AD	AD	AC
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0101	0101	0072	0072	0071	0071	0071	0071	0069	0069
ORDENADA - Y	0063	0063	0019	0019	0019	0019	0019	0019	0019	0019
UTM - LAT.	458000	458000	458000	458000	458000	458000	458000	458000	458000	458000
UTM - LONG.	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSTIAGE	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCER.										
LARGURA RIO	15	15	5	5	10	10	10	10	10	10
PROFUND. RIO										
VELOC. CORR.	3	3	3	3	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGLA										
PCS. CCLFTA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. CRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPO SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ001 A	FAJ001 B	FAJ002 A	FAJ002 B	FAJ003 A	FAJ003 B	FAJ003AA	FAJ003AB	FAJ004 A	FAJ004 B
NUM. CAMPO	JF0033	JF0033	JF0034	JF0034	JF0035	JF0035	JF0035	JF0035	JF0036	JF0036
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH	PH	METAL TOTAL	ANALISE 1	ANALISE 2	ANALISE 3	ANALISE 4	CODIF. LIVRE	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU

PARAMETROS ANALITICOS

FF-S %	0,700	5,000	0,700	3,000	0,300	5,000												0,500	5,000
MG-S %	0,070	0,500	0,050	0,300	0,050	0,500												0,050	0,200
CA-S %	0,070	0,200	0,150	1,000	0,100	1,000												0,150	0,700
TI-S %	0,150	+1,000	0,500	+1,000	0,100	+1,000												0,300	+1,000
MN-S	70,000	1000,000	700,000	3000,000	150,000	1000,000												300,000	2000,000
AG-S	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.
AU-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
B-S	10,000	150,000	10,000	70,000	70,000	100,000												30,000	200,000
BA-S	700,000	1500,000	700,000	3000,000	500,000	2000,000												700,000	3000,000
BE-S	-1,000	NAD DET.	-1,000	-1,000	-1,000	-1,000												-1,000	NAD DET.
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
CO-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
CO-S	-5,000	5,000	-5,000	7,000	-5,000	7,000												-5,000	5,000
CR-S	-10,000	30,000	-10,000	30,000	-10,000	70,000												-10,000	30,000
CU-S	-5,000	10,000	7,000	30,000	7,000	20,000												7,000	100,000
LA-S	30,000	20,000	30,000	20,000	30,000	20,000												30,000	20,000
MO-S	NAD DET.	NAD DET.	-5,000	NAD DET.	NAD DET.	-5,000												NAD DET.	-5,000
MB-S	-10,000	30,000	20,000	30,000	-10,000	20,000												-10,000	30,000
MT-S	-5,000	15,000	-5,000	20,000	-5,000	20,000												-5,000	10,000
PE-S	NAD DET.	20,000	-10,000	30,000	NAD DET.	20,000												-10,000	20,000
SB-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
SC-S	NAD DET.	INTERFER.	NAD DET.	INTERFER.	NAD DET.	INTERFER.												NAD DET.	INTERFER.
SN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
SR-S	NAD DET.	100,000	NAD DET.	100,000	NAD DET.	100,000												NAD DET.	100,000
V-S	20,000	50,000	20,000	50,000	15,000	50,000												20,000	70,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
Y-S	NAD DET.	15,000	NAD DET.	30,000	NAD DET.	150,000												NAD DET.	50,000
ZN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.												NAD DET.	NAD DET.
ZR-S	100,000	+1000,000	150,000	+1000,000	150,000	+1000,000												150,000	+1000,000
CU-AA	-5,000	5,000	-5,000	5,000	5,000	10,000												-5,000	5,000
PF-AA	5,000	10,000	5,000	10,000	5,000	10,000												5,000	10,000
ZN-AA	5,000	15,000	5,000	20,000	10,000	25,000												10,000	10,000
AG-AA	INTERFER.	NAD DET.	INTERFER.	NAD DET.	INTERFER.	NAD DET.												NAD DET.	NAD DET.
CO-AA																			
NI-AA																			
BI-AA																			
CC-AA																			

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ001 A JF0033	FAJ001 B JF0033	FAJ002 A JF0034	FAJ002 B JF0034	FAJ003 A JF0035	FAJ003 B JF0035	FAJ003AA JF0035	FAJ003AB JF0035	FAJ004 A JF0036	FAJ004 B JF0036
	2400,000	6400,000	2400,000	6900,000	2600,000	7200,000	2500,000	6500,000	2000,000	3300,000
	25,000	95,000	340,000	850,000	90,000	250,000	80,000	250,000	150,000	280,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ005 A	FAJ005 B	FAJ006 A	FAJ006 B	FAJ007 A	FAJ007 B	FAJ008 A	FAJ008 B	FAJ009 A	FAJ009 B
NUM. CAMPO	JF0037	JF0037	JF0038	JF0038	JF0039	JF0039	JF0040	JF0040	JF0041	JF0041
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0067	0067	0066	0066	0063	0063	0059	0059	0043	0043
ORDENADA - Y	0016	0016	0011	0011	0010	0010	0010	0010	0038	0038
UTM - LAT.	458000	458000	458000	458000	452000	458000	458000	458000	474000	474000
UTM - LONG.	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09188000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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 REC.										
ID. CECLEG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	10	10	10	10	15	15	15	15	20	20
PROFUND. RIO										
VFLUC. CORR.	3	3	3	3	3	3	2	2	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	2	2	2	2	2	2	2	2	2	2
TUPO. ACUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGUA										
GRAU AFREC.										
VOL. CRIGIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SEDIM.										
CCR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ005 A	FAJ005 B	FAJ006 A	FAJ006 B	FAJ007 A	FAJ007 B	FAJ008 A	FAJ008 B	FAJ009 A	FAJ009 B
NUM. CAMPO	JF0037	JF0037	JF0038	JF0038	JF0039	JF0039	JF0040	JF0040	JF0041	JF0041
AMB. BICTICO										

PARÂMETROS ANALITICOS DE CAMPO

EF													
PH													
METAL TOTAL													
ANALISE 1			NU	19	NU	19			NU	20	NU	20	
ANALISE 2			ND	1	ND	1			ND	1	ND	1	
ANALISE 3	NU	19	NU	19			NU	20	NU	20			NL
ANALISE 4	ND	1	ND	1			ND	1	ND	1			ND
COND.F. LIVRE	MO21		MO21		MO21C		MO21		MO21		MO21C		J031
													J031

PARÂMETROS ANALITICOS

FE-S %	0,300	3,000	0,700	7,000	0,300	5,000	0,700	7,000	0,700	3,000
MG-S %	0,030	0,100	0,070	0,300	0,050	0,500	0,050	0,500	0,070	0,300
CA-S %	0,150	0,500	0,150	1,000	0,150	1,000	0,150	1,000	0,070	0,100
TI-S %	0,200	+1,000	0,700	+1,000	0,070	+1,000	0,700	+1,000	0,500	+1,000
MN-S	150,000	1000,000	300,000	3000,000	300,000	2000,000	700,000	5000,000	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	15,000	150,000	20,000	150,000	15,000	200,000	15,000	150,000	-10,000	50,000
BA-S	700,000	2000,000	700,000	2000,000	500,000	2000,000	700,000	2000,000	700,000	3000,000
RE-S	-1,000	NAO DET.	-1,000	NAO DET.	-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.
CO-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	10,000	-5,000	7,000	5,000	10,000	5,000	5,000
CR-S	-10,000	20,000	-10,000	70,000	-10,000	50,000	-10,000	70,000	10,000	30,000
CU-S	7,000	20,000	-5,000	30,000	5,000	50,000	7,000	50,000	10,000	20,000
LA-S	20,000	30,000	20,000	30,000	30,000	50,000	20,000	30,000	30,000	20,000
MO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.
NR-S	-10,000	20,000	15,000	30,000	-10,000	20,000	10,000	50,000	10,000	20,000
NI-S	-5,000	5,000	-5,000	15,000	-5,000	15,000	5,000	30,000	5,000	10,000
PP-S	NAO DET.	15,000	NAO DET.	20,000	NAO DET.	30,000	-10,000	20,000	10,000	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.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SP-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	15,000	30,000	20,000	70,000	20,000	70,000	20,000	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	NAO DET.	30,000	NAO DET.	70,000	NAO DET.	20,000	10,000	100,000	NAO DET.	15,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
ZP-S	700,000	+1000,000	500,000	+1000,000	100,000	+1000,000	+1000,000	+1000,000	150,000	+1000,000
CU-AA	-5,000	-5,000	-5,000	5,000	-5,000	10,000	-5,000	5,000	-5,000	-5,000
PD-AA	5,000	5,000	5,000	15,000	5,000	10,000	5,000	15,000	5,000	5,000
ZN-AA	5,000	10,000	5,000	25,000	5,000	25,000	5,000	25,000	5,000	15,000
AG-AA	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRM CADASTRO GEOQUIMICO

15.01.76

FLA. 57

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEFAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ005 A JF0037	FAJ005 B JF0037	FAJ006 A JF0038	FAJ006 B JF0038	FAJ007 A JF0039	FAJ007 B JF0039	FAJ008 A JF0040	FAJ008 B JF0040	FAJ009 A JF0041	FAJ009 B JF0041
	1600,000	2800,000	2100,000	5700,000	1800,000	7000,000	1800,000	7800,000	2500,000	4000,000
	90,000	150,000	110,000	290,000	210,000	560,000	210,000	800,000	30,000	65,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ010 A	FAJ010 B	FAJC11 A	FAJ011 B	FAJ012 A	FAJ012 B	FAJ013 A	FAJC13 B	FAJC14 A	FAJ014 B
NUM. CAMPO	JF0042	JF0042	JF0043	JF0043	JF0044	JF0044	JF0045	JF0045	JF0046	JF0046
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PERFECENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
FSCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0042	0042	0041	0041	0041	0041	0040	0040	0038	0038
ORDENADA - Y	0039	0039	0040	0040	0042	0042	0044	0044	0052	0052
UTM - LAT.	474000	474000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMCST.	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 REC.										
ID. CECLCG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TCPOC.										
SIT. AMCST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMCST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCCC.										
LARGURA RIO	20	20	15	15	20	20	20	20	15	15
PERFUND. RIO										
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DFENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU APREC.										
VOL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPO SCLC										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO AMB. BICTICO	FAJ010 A JF0042	FAJ010 B JF0042	FAJ011 A JF0043	FAJ011 B JF0043	FAJ012 A JF0044	FAJ012 B JF0044	FAJ013 A JF0045	FAJ013 B JF0045	FAJ014 A JF0046	FAJ014 B JF0046
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PARAMETROS ANALITICOS DE CAMPO

FF PH METAL TOTAL	NU 21 NL 21	NU 22 ND 1	NU 22 ND 1	NU 22 ND 1	NU 22 ND 1	NU 23 ND 1	NU 23 ND 1	NU 23 ND 1	NU 23 ND 1
ANALISE 1	NU 21	NU 22	NU 22	NU 22	NU 22	NU 23	NU 23	NU 23	NU 23
ANALISE 2	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
ANALISE 3									
ANALISE 4									
CODIF. LIVRE	J031C	J031C	J031C	J031C	J031C	J031C	J031C	J031C	J031C

PARAMETROS ANALITICOS

FF-S	0,700	2,000	0,700	5,000	0,500	5,000	0,700	3,000	0,500	5,000
MG-S	0,070	0,300	0,030	0,500	0,050	0,300	0,050	0,300	0,030	0,500
CA-S	0,070	0,100	0,050	0,150	0,050	0,100	0,050	0,070	0,050	0,150
TI-S	0,150	1,000	0,500	+1,000	0,300	+1,000	0,700	+1,000	0,500	+1,000
MN-S	70,000	500,000	200,000	1500,000	150,000	1000,000	300,000	1000,000	200,000	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	50,000	15,000	50,000	15,000	70,000	NAO DET.	50,000	15,000	100,000
BA-S	700,000	2000,000	500,000	1000,000	500,000	1500,000	700,000	1500,000	500,000	2000,000
BF-S	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-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.
CR-S	-5,000	-5,000	-5,000	5,000	-5,000	5,000	5,000	5,000	-5,000	5,000
CU-S	-10,000	30,000	-10,000	50,000	-10,000	50,000	-10,000	50,000	-10,000	50,000
LA-S	7,000	50,000	10,000	30,000	7,000	15,000	7,000	100,000	7,000	50,000
MO-S	20,000	20,000	20,000	20,000	30,000	20,000	30,000	20,000	30,000	20,000
MG-S	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.	-5,000	-5,000	NAO DET.	NAO DET.	NAO DET.
NR-S	-10,000	15,000	15,000	30,000	-10,000	30,000	10,000	50,000	10,000	20,000
NI-S	-5,000	10,000	-5,000	20,000	-5,000	10,000	-5,000	10,000	-5,000	20,000
PH-S	10,000	30,000	-10,000	30,000	NAO DET.	20,000	-10,000	20,000	-10,000	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.	-5,000	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
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.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	30,000	50,000	30,000	70,000	20,000	50,000	30,000	50,000	20,000	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	NAO DET.	10,000	NAO DET.	20,000	NAO DET.	20,000	NAO DET.	150,000	NAO DET.	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	100,000	1000,000	150,000	+1000,000	100,000	+1000,000	150,000	+1000,000	100,000	+1000,000
CJ-AA	-5,000	-5,000	-5,000	5,000	-5,000	-5,000	-5,000	-5,000	-5,000	5,000
PE-AA	5,000	5,000	5,000	10,000	5,000	10,000	5,000	10,000	5,000	15,000
ZN-AA	5,000	10,000	5,000	20,000	5,000	10,000	5,000	15,000	5,000	30,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRM CACASTRO GEOQUIMICO

15.01.76

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S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TF-AA AU-AA	FAJ010 A JF0042	FAJ010 B JF0042	FAJC11 A JFCC43	FAJC11 B JF0043	FAJ012 A JF0044	FAJ012 B JF0044	FAJ013 A JF0045	FAJC13 B JF0045	FAJC14 A JF0046	FAJ014 E JF0046
	3200,000 40,000	4200,000 90,000	2200,000 30,000	7900,000 160,000	2500,000 40,000	5500,000 110,000	2100,000 35,000	4400,000 100,000	2600,000 50,000	7200,000 180,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GFAL DO PROJETO SANTANA

NUM. LAB.	FAJ015 A	FAJC15 B	FAJC16 A	FAJC16 B	FAJ017 A	FAJ017 B	FAJ018 A	FAJC18 B	FAJC19 A	FAJC19 B
NUM. CAMPO	JF0047	JF0047	JF0048	JF0048	JF0049	JF0049	JF0050	JF0050	JF0051	JF0051
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AC	AC	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0036	0036	0034	0034	0029	0029	0025	0025	0022	0022
ORDENADA - Y	0056	0056	0060	0060	0063	0063	0070	0070	0076	0076
UTM - LAT.	474000	474000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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
POCHA REG.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEP. COCCR.										
LARGURA FIO	10	10	20	20	20	20	5	5	10	10
PERFUND. RIO										
VELOC. CORR.	3	3	3	3	3	3	3	3	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	2	2	2	2	2	2	2	2	2	2
TUPE. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA										
GRAU AFREC.										
VOL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR. SEC./SL.										
HORIZ. SCLD										
TIPO SCLD										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO AMB. BIOTICO	FAJ015 A JF0047	FAJ015 B JF0047	FAJ016 A JF0048	FAJ016 B JF0048	FAJ017 A JF0049	FAJ017 B JF0049	FAJ018 A JF0050	FAJ018 B JF0050	FAJ019 A JF0051	FAJ019 B JF0051
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PARAMETROS ANALITICOS DE CAMPO

EH PH METAL TOTAL ANALISE 1 ANALISE 2 ANALISE 3 ANALISE 4 CODIF. LIVRE	NU 24 ND 1	NU 24 ND 1	NU 24 ND 1	NU 24 ND 1	NU 25 ND 1	NU 25 ND 1	NU 25 ND 1	NU 25 ND 1	NU 26 ND 1	NU 26 ND 1
	J031	J031	J032C	J032C	J032	J032	J032C	J032C	J032	J032

PARAMETROS ANALITICOS

FF-S %	0,700	2,000	0,700	1,000	0,700	2,000	0,700	2,000	1,500	3,000
MG-S %	0,030	0,300	0,030	0,300	0,030	0,200	0,150	0,500	0,500	1,000
CA-S %	0,050	0,150	0,050	0,150	0,050	0,150	0,700	2,000	0,700	2,000
TI-S %	0,150	1,000	0,200	0,700	0,300	+1,000	0,150	1,000	0,700	0,700
MN-S	150,000	1000,000	200,000	700,000	200,000	1000,000	500,000	1500,000	700,000	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	15,000	30,000	10,000	50,000	10,000	50,000	15,000	50,000	20,000	70,000
BA-S	500,000	1500,000	700,000	1500,000	700,000	1000,000	1500,000	3000,000	2000,000	5000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	-1,000	-1,000	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	5,000	7,000	5,000	5,000	5,000	5,000	5,000	7,000	7,000	10,000
CR-S	-10,000	20,000	-10,000	20,000	-10,000	20,000	10,000	70,000	20,000	100,000
CU-S	-5,000	7,000	-5,000	5,000	-5,000	20,000	7,000	15,000	10,000	30,000
LA-S	30,000	20,000	30,000	20,000	30,000	20,000	20,000	20,000	20,000	50,000
MA-S	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	-5,000	5,000	5,000
NB-S	-10,000	20,000	-10,000	10,000	10,000	20,000	-10,000	20,000	10,000	15,000
NI-S	-5,000	10,000	-5,000	10,000	-5,000	10,000	10,000	20,000	20,000	50,000
PH-S	-10,000	20,000	-10,000	20,000	-10,000	10,000	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	INTERFER.	NAO DET.	-5,000	NAO DET.	INTERFER.	NAO DET.	7,000	5,000	10,000
SN-S	NAO DET.	-10,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	20,000	70,000	30,000	50,000	30,000	50,000	30,000	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.	NAO DET.
Y-S	NAO DET.	30,000	NAO DET.	10,000	NAO DET.	50,000	NAO DET.	20,000	10,000	50,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	200,000
ZR-S	150,000	+1000,000	100,000	1000,000	150,000	+1000,000	100,000	1000,000	200,000	1000,000
CU-AA	-5,000	5,000	-5,000	5,000	-5,000	-5,000	5,000	-5,000	10,000	20,000
PE-AA	5,000	15,000	5,000	10,000	5,000	10,000	5,000	15,000	10,000	30,000
ZN-AA	5,000	20,000	5,000	20,000	5,000	10,000	15,000	20,000	30,000	85,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										

CPRM CACASTRO GEOQUIMICO

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S E A G

PROJETO - SANTANA

CENTRO DE COSTO - 1523.310

ARQUIVO GERAL DE PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ015 A JF0047	FAJ015 B JF0047	FAJ016 A JF0048	FAJ016 B JF0048	FAJ017 A JF0049	FAJ017 B JF0049	FAJ018 A JF0050	FAJ018 B JF0050	FAJ019 A JF0051	FAJ019 B JF0051
	1900,000	5800,000	2000,000	5700,000	2500,000	4500,000	3300,000	2600,000	5400,000	13000,000
	35,000	140,000	35,000	120,000	35,000	100,000	160,000	100,000	250,000	600,000



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ020 A	FAJ020 B	FAJC21 A	FAJ021 B	FAJ022 A	FAJC22 B	FAJ023 A	FAJC23 B	FAJC24 A	FAJ024 B
NUM. CAMPO	JF0052	JF0052	JFCC53	JF0053	JF0054	JF0054	JF0055	JFCC55	JFCC56	JF0056
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PRECISEZ	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	C-III	D-III	D-III	D-III	C-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0019	0019	0021	0021	0043	0043	0044	0044	0046	0046
ORDENADA - Y	0086	0086	0097	0097	0031	0031	0030	0030	0035	0035
UTM - LAT.	474000	474000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. GEOLÓG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOGENIA	A	A	A	A	A	A	A	A	A	A
TIPO VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. COEF.										
LARGURA FIO	15	15	20	20	15	15	10	10	10	10
PROFUND. FIO										
VELOC. CORR.	2	2	2	2	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR. AGUA										
GRAU APREC.										
VOL. ORIGIN.										
PESO COEF.										
GRANULOMET.										
TEXT. SECIM.										
COR. SEC./SL.										
HORIZ. SCLC										
TIPO SCLC										

S E A G

PROJETO - SANTANA

- CENTRO DE CUSTO - 1523.310

APCUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ020 A	FAJ020 B	FAJ021 A	FAJ021 B	FAJ022 A	FAJ022 B	FAJ023 A	FAJ023 B	FAJ024 A	FAJ024 B
NUM. CAMPO	JF0052	JF0052	JF0053	JF0053	JF0054	JF0054	JF0055	JF0055	JF0056	JF0056
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH	PH	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
		26	26	27	27	27	28	28	28	28	28	28
		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METAL TOTAL												
ANALISE 1												
ANALISE 2												
ANALISE 3												
ANALISE 4												
CODIF. LIVRE	J032C	J032C	J032	J032	M031C	M031C	M031	M031	M031C	M031C	M031C	M031C

PARAMETROS ANALITICOS

FE-S %	0,700	3,000	0,700	5,000	0,700	5,000	0,700	3,000	0,700	5,000
MG-S %	0,150	1,000	0,100	1,500	0,050	0,700	0,050	0,300	0,030	0,200
CA-S %	0,500	2,000	0,700	3,000	0,070	0,200	0,050	0,100	-0,050	0,150
TI-S %	0,700	0,700	0,300	1,000	0,700	1,000	0,700	+1,000	1,000	+1,000
MN-S	700,000	1000,000	300,000	1500,000	200,000	1000,000	300,000	1500,000	700,000	2000,000
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	15,000	50,000	15,000	70,000	10,000	70,000	15,000	70,000	20,000	50,000
BA-S	700,000	5000,000	1000,000	5000,000	700,000	2000,000	700,000	1500,000	300,000	1000,000
BE-S	-1,000	1,000	-1,000	-1,000	-1,000	-1,000	-1,000	NAD DET.	-1,000	NAD DET.
BT-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.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	5,000	7,000	5,000	10,000	5,000	5,000	5,000	5,000	5,000	7,000
CR-S	-10,000	70,000	-10,000	150,000	-10,000	70,000	10,000	20,000	-10,000	30,000
CL-S	5,000	30,000	-5,000	30,000	-5,000	7,000	-5,000	5,000	-5,000	7,000
LA-S	20,000	30,000	30,000	30,000	30,000	20,000	20,000	20,000	30,000	20,000
MO-S	NAD DET.	-5,000	NAD DET.	7,000	NAD DET.	-5,000	NAD DET.	NAD DET.	NAD DET.	-5,000
NE-S	15,000	15,000	-10,000	20,000	-10,000	20,000	10,000	30,000	30,000	50,000
NI-S	10,000	30,000	5,000	50,000	-5,000	20,000	-5,000	5,000	-5,000	10,000
PE-S	20,000	20,000	10,000	30,000	-10,000	20,000	-10,000	30,000	-10,000	20,000
SP-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	INTERFER.	NAD DET.	INTERFER.	NAD DET.	INTERFER.	NAD DET.	INTERFER.	NAD DET.	INTERFER.
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.	100,000	NAD DET.	100,000	NAD DET.	100,000	NAD DET.	100,000	NAD DET.	100,000
V-S	30,000	100,000	30,000	100,000	30,000	70,000	30,000	50,000	50,000	70,000
W-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
Y-S	NAD DET.	30,000	NAD DET.	50,000	NAD DET.	30,000	NAD DET.	20,000	NAD DET.	100,000
ZN-S	NAD DET.	200,000	NAD DET.	-200,000	NAD DET.	-200,000	NAD DET.	-200,000	NAD DET.	NAD DET.
ZR-S	150,000	+1000,000	150,000	+1000,000	500,000	+1000,000	200,000	+1000,000	700,000	+1000,000
CU-AA	5,000	20,000	5,000	15,000	-5,000	5,000	-5,000	-5,000	-5,000	5,000
PR-AA	10,000	25,000	5,000	20,000	5,000	10,000	5,000	10,000	5,000	15,000
ZN-AA	25,000	70,000	15,000	60,000	5,000	20,000	10,000	15,000	5,000	20,000
AG-AA	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-AA										
NI-AA										
BT-AA										
CC-AA										

CPRM CACASTRO GEOQUIMICO

15.01.76 FLA. 66

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ020 A JF0052	FAJC20 B JF0052	FAJC21 A JF0053	FAJC21 B JF0053	FAJ022 A JF0054	FAJ022 B JF0054	FAJC23 A JF0055	FAJC23 B JF0055	FAJC24 A JF0056	FAJ024 B JF0056
	5000,000	11000,000	2600,000	11000,000	1900,000	11000,000	2400,000	4800,000	2500,000	7700,000
	230,000	530,000	130,000	440,000	20,000	160,000	20,000	65,000	30,000	140,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ025 A	FAJ025 B	FAJC26 A	FAJC26 B	FAJ027 A	FAJ027 B	FAJ028 A	FAJC28 B	FAJC28AA	FAJ028AB
NUM. CAMPO	JF0057	JF0057	JFCC58	JF0058	JF0059	JF0059	JF0060	JFCC60	JF0060	JF0060
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AC	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	C-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0048	0048	0046	0046	0045	0045	0050	0050	0050	0050
ORDENADA - Y	0031	0031	0028	0028	0025	0025	0024	0024	0024	0024
UTM - LAT.	474000	474000	474000	474000	474000	474000	474000	474000	474000	474000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TPCOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROP. AMOST.										
FOPMA IGNEA										
SIT. ESTEUT.										
MATRIZ PPEC.										
GRAU INTENP.										
TIPC ALTER.										
TIPC MINER.										
DEP. COCOR.										
LARGURA RIO	5	5	10	10	10	10	5	5	5	5
FECFUND. RIO										
VELOC. COCOR.	2	2	2	2	2	2	2	2	2	2
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PIS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ABREC.										
VOL. CRICIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLC										
TIPC SCLC										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ025 A	FAJ025 B	FAJ026 A	FAJ026 B	FAJ027 A	FAJ027 B	FAJ028 A	FAJ028 B	FAJ028AA	FAJ028AB
NUM. CAMPO	JF0057	JF0057	JFCC58	JF0058	JF0059	JF0059	JF0060	JFCC60	JFCC60	JF0060
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EH																
PH																
METAL TOTAL																
ANALISE 1			NU	29	NU	29			NU	30	NU	30	NU	30	NU	30
ANALISE 2			ND	1	ND	1			ND	1	ND	1	ND	1	ND	1
ANALISE 3	NU	29	NU	29			NU	30	NU	30						
ANALISE 4	ND	1	ND	1			ND	1	ND	1						
COEF. LIVRE	MO31		MO31		MO31C		MO31		MO31		MO31C		MO31C		MO31C	

PARAMETROS ANALITICOS

FF-S %	0,300	3,000	0,700	1,500	0,500	5,000	0,300	3,000								
MG-S %	0,030	0,300	0,150	0,300	0,070	0,500	0,050	0,300								
CA-S %	-0,050	0,150	0,150	0,300	0,070	0,300	-0,050	0,200								
TI-S %	0,150	1,000	0,100	0,500	0,200	1,000	0,500	1,000								
MN-S	200,000	700,000	300,000	500,000	150,000	700,000	200,000	1500,000								
AG-S	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.								
AU-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
B-S	50,000	100,000	30,000	50,000	15,000	30,000	15,000	50,000								
BA-S	300,000	1500,000	700,000	1000,000	700,000	3000,000	700,000	2000,000								
RF-S	-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.								
CD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
CO-S	5,000	-5,000	7,000	-5,000	5,000	5,000	5,000	5,000								
CR-S	-10,000	30,000	10,000	20,000	10,000	50,000	-10,000	30,000								
CU-S	-5,000	5,000	-5,000	10,000	-5,000	7,000	-5,000	5,000								
LA-S	30,000	20,000	30,000	20,000	30,000	20,000	30,000	70,000								
MD-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000								
NB-S	-10,000	20,000	-10,000	10,000	-10,000	30,000	10,000	50,000								
NI-S	-5,000	10,000	-5,000	10,000	-5,000	20,000	-5,000	15,000								
PP-S	-10,000	30,000	NAO DET.	20,000	15,000	50,000	-10,000	30,000								
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
SC-S	NAO DET.	INTERFER.	NAO DET.	5,000	NAO DET.	INTERFER.	NAO DET.	INTERFER.								
SN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
SR-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000								
V-S	30,000	70,000	30,000	70,000	30,000	70,000	20,000	70,000								
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
Y-S	NAO DET.	30,000	NAO DET.	10,000	NAO DET.	20,000	NAO DET.	50,000								
ZN-S	NAO DET.	NAO DET.	NAO DET.	-200,000	NAO DET.	NAO DET.	NAO DET.	NAO DET.								
ZR-S	150,000	+1000,000	100,000	700,000	150,000	+1000,000	150,000	+1000,000								
CU-AA	-5,000	-5,000	-5,000	5,000	-5,000	5,000	-5,000	-5,000								
PE-AA	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000								
ZN-AA	5,000	10,000	5,000	15,000	5,000	15,000	5,000	10,000								
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.								
CO-AA																
NI-AA																
BI-AA																
CC-AA																

CPRM CACASTRO GEOQUIMICO

15.01.76

FLA. 69

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ025 A	FAJ025 B	FAJC26 A	FAJ026 B	FAJ027 A	FAJ027 B	FAJC28 A	FAJC28 B	FAJC28AA	FAJ028AB
NUM. CAMPO	JF0057	JF0057	JFCC58	JF0058	JF0059	JF0059	JF0060	JF0060	JF0060	JF0060
TE-AA										
AU-AA										
	2100,000	7100,000	1800,000	5900,000	2700,000	9200,000	2100,000	6700,000	2100,000	6700,000
	20,000	100,000	100,000	200,000	30,000	130,000	25,000	100,000	25,000	100,000

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ029 A	FAJC29 B	FAJC30 A	FAJC30 B	FAJ031 A	FAJ031 B	FAJ032 A	FAJC32 B	FAJC33 A	FAJ033 B
NUM. CAMPO	JF0061	JF0061	JF0062	JF0062	JF0063	JF0063	JF0064	JF0064	JF0065	JF0065
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PFCEDENCIA	AD	AD	AD	AD	AD	AC	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
FSCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0008	0008	0009	0009	0009	0009	0010	0010	0012	0012
ORDENADA - Y	0074	0074	0075	0075	0077	0077	0078	0078	0082	0082
UTM - LAT.	484000	484000	484000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTEMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. CCCCR.										
LARGURA FIO	10	10	15	15	5	5	5	5	5	5
PROFUND. RIO										
VELOC. CORR.	1	1	1	1	1	1	1	1	1	1
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGLA										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
COR ACUA										
GRAU ARREC.										
VOL. CRICIN.										
PESC CONC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPC SCLD										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ029 A	FAJC29 B	FAJC30 A	FAJC30 B	FAJ031 A	FAJ031 B	FAJ032 A	FAJC32 B	FAJC33 A	FAJ033 B
NUM. CAMPO	JF0061	JF0061	JF0062	JF0062	JF0063	JF0063	JF0064	JF0064	JF0065	JF0065
AMS. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EF										
PH										
METAL TOTAL										
ANALISE 1			NU 31	KU 31			NU 32	KU 32		
ANALISE 2			ND 1	ND 1			ND 1	ND 1		
ANALISE 3	NU 31	NU 31			NU 32	NU 32			NU 33	NU 33
ANALISE 4	ND 1	ND 1			ND 1	ND 1			ND 1	ND 1
CODIF. LIVRE	J041	J041	J041C	J041C	J041	J041	J041C	J041C	J041	J041

PARAMETROS ANALITICOS

FE-S %	2,000	7,000	1,500	5,000	1,500	7,000	1,000	7,000	3,000	7,000
MG-S %	0,500	1,500	0,500	1,500	0,300	1,500	0,200	1,000	0,500	1,500
CA-S %	1,500	3,000	1,500	3,000	1,000	3,000	1,000	3,000	1,500	3,000
TI-S %	0,500	1,000	0,500	1,000	0,700	+1,000	0,700	+1,000	0,700	1,000
MN-S	700,000	2000,000	700,000	1500,000	700,000	2000,000	700,000	2000,000	1000,000	1500,000
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	50,000	15,000	50,000	50,000	100,000	20,000	50,000	15,000	70,000
BA-S	3000,000	5000,000	2000,000	3000,000	3000,000	5000,000	3000,000	5000,000	1500,000	2000,000
BE-S	1,500	2,000	1,000	1,500	-1,000	1,000	-1,000	1,000	1,500	2,000
BI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CI-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
CO-S	7,000	15,000	7,000	10,000	7,000	10,000	5,000	10,000	10,000	10,000
CR-S	30,000	150,000	30,000	100,000	20,000	150,000	10,000	100,000	30,000	100,000
CU-S	20,000	50,000	7,000	30,000	7,000	50,000	-5,000	30,000	15,000	50,000
LA-S	30,000	70,000	20,000	50,000	20,000	70,000	20,000	30,000	20,000	50,000
MO-S	-5,000	7,000	NAD DET.	-5,000	-5,000	5,000	-5,000	5,000	5,000	5,000
NE-S	10,000	20,000	-10,000	20,000	10,000	30,000	10,000	30,000	15,000	20,000
NI-S	30,000	100,000	20,000	50,000	20,000	100,000	10,000	100,000	30,000	100,000
PI-S	30,000	50,000	15,000	30,000	30,000	30,000	20,000	50,000	30,000	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	7,000	20,000	7,000	INTERFER.	5,000	INTERFER.	-5,000	INTERFER.	10,000	20,000
SN-S	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.	NAD DET.
SR-S	100,000	200,000	-100,000	150,000	-100,000	200,000	-100,000	200,000	-100,000	200,000
V-S	70,000	200,000	50,000	150,000	70,000	200,000	30,000	150,000	70,000	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	10,000	70,000	10,000	50,000	10,000	70,000	-10,000	50,000	15,000	50,000
ZN-S	NAD DET.	200,000	NAD DET.	200,000	NAD DET.	200,000	NAD DET.	200,000	NAD DET.	200,000
ZR-S	150,000	1000,000	150,000	+1000,000	300,000	+1000,000	150,000	+1000,000	200,000	1000,000
CU-AA	15,000	30,000	10,000	25,000	10,000	25,000	10,000	20,000	15,000	30,000
PE-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZN-AA	35,000	100,000	60,000	120,000	35,000	80,000	30,000	70,000	45,000	100,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
RI-AA										
CC-AA										



CPRM CAASTRO GEOQUIMICO

15.01.76 FLA. 72

S E A G

PROJETO - SANTANA

CFNTRQ DF CUSTO - 1523.210

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TF-AA AU-AA	FAJ029 A JF0061	FAJ029 B JF0061	FAJ030 A JF0062	FAJ030 B JF0062	FAJ031 A JF0063	FAJ031 B JF0063	FAJ032 A JF0064	FAJ032 B JF0064	FAJ033 A JF0065	FAJ033 B JF0065
	7600,000	17000,000	7800,000	15000,000	5900,000	14000,000	5600,000	12000,000	8600,000	19000,000
	220,000	410,000	220,000	360,000	220,000	400,000	190,000	310,000	270,000	380,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ034 A	FAJ034 B	FAJC35 A	FAJC35 B	FAJ036 A	FAJC36 B	FAJ037 A	FAJC37 B	FAJC38 A	FAJ038 B
NUM. CAMPO	JF0066	JF0066	JF0067	JF0067	JF0068	JF0068	JF0069	JF0069	JF0070	JF0070
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PROCEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III
BASE CART.										
BASE CART.										
FSCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0018	0018	0021	0021	0024	0024	0031	0031	0037	0037
ORDENADA - Y	0089	0089	0092	0092	0094	0094	0099	0099	0102	0102
UTM - LAT.	484000	484000	484000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
TD. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TCEPG.										
SIT. AMOST.	A	A	A	A	A	A	A	A	A	A
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PRED.										
GRAU INTMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCCR.										
LARGURA RIO	10	10	10	10	15	15	10	10	10	10
PROFUND. RIO										
VELOC. CORR.	0	0	0	0	0	0	0	0	0	0
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU AFREC.										
VOL. CRICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ034 A	FAJ034 B	FAJ035 A	FAJ035 B	FAJ036 A	FAJ036 B	FAJ037 A	FAJ037 B	FAJ038 A	FAJ038 B
NUM. CAMPO	JF0066	JF0066	JFCC67	JF0067	JF0068	JF0068	JF0069	JF0069	JF0070	JF0070
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH	33		34		34		35		35	
PH	NU	ND	NU	ND	NU	ND	NU	ND	NU	ND
METAL TOTAL										
ANALISE 1	33		33		34		34		35	
ANALISE 2	1		1		1		1		1	
ANALISE 3										
ANALISE 4										
CODIF. LIVRE	J041C	J041C	J041	J041	J042C	J042C	J042	J042	J042C	J042C

PARAMETROS ANALITICOS

FF-S %	1,500	5,000	0,700	2,000	1,000	5,000	0,700	5,000	0,700	3,000
MG-S %	0,300	0,700	0,200	0,700	0,300	1,000	0,300	1,000	0,300	0,500
CA-S %	1,000	2,000	0,700	1,000	0,700	2,000	0,700	2,000	0,700	1,500
TI-S %	0,500	+1,000	0,150	1,000	0,300	1,000	0,500	1,000	0,500	0,700
MN-S	500,000	2000,000	300,000	700,000	700,000	1000,000	300,000	1500,000	300,000	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.	NAO DET.	NAO 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	15,000	30,000	15,000	50,000	15,000	50,000	10,000	70,000	10,000	20,000
BA-S	2000,000	5000,000	1500,000	3000,000	1000,000	3000,000	2000,000	5000,000	2000,000	3000,000
BE-S	-1,000	-1,000	3,000	-1,000	-1,000	1,000	-1,000	-1,000	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CD-S	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-S	7,000	10,000	7,000	7,000	7,000	10,000	7,000	10,000	5,000	10,000
CR-S	15,000	30,000	-10,000	30,000	-10,000	50,000	10,000	50,000	-10,000	50,000
CU-S	5,000	30,000	-5,000	15,000	5,000	20,000	7,000	30,000	30,000	20,000
LA-S	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	20,000
MC-S	-5,000	5,000	NAC DET.	NAC DET.	NAC DET.	-5,000	-5,000	-5,000	-5,000	-5,000
NE-S	10,000	50,000	-10,000	20,000	-10,000	20,000	10,000	30,000	10,000	20,000
NI-S	15,000	30,000	10,000	20,000	15,000	30,000	10,000	30,000	7,000	30,000
PH-S	20,000	70,000	10,000	20,000	20,000	30,000	15,000	70,000	20,000	30,000
SB-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
SC-S	-5,000	INTERFER.	NAO DET.	5,000	-5,000	10,000	NAO DET.	INTERFER.	NAO DET.	INTERFER.
SN-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SP-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	150,000	NAO DET.	100,000	NAC DET.	150,000
V-S	50,000	150,000	30,000	70,000	30,000	100,000	30,000	100,000	30,000	70,000
W-S	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S	NAO DET.	70,000	NAO DET.	15,000	10,000	20,000	NAO DET.	30,000	NAO DET.	30,000
ZN-S	NAC DET.	-200,000	NAO DET.	-200,000	NAC DET.	-200,000	NAO DET.	-200,000	NAO DET.	NAO DET.
ZR-S	300,000	+1000,000	150,000	1000,000	100,000	1000,000	700,000	+1000,000	150,000	+1000,000
CU-AA	5,000	15,000	5,000	10,000	5,000	15,000	5,000	15,000	5,000	15,000
PB-AA	INTERFER.	INTERFER.	10,000	15,000	10,000	20,000	10,000	25,000	10,000	25,000
ZN-AA	20,000	110,000	15,000	35,000	25,000	60,000	15,000	45,000	20,000	50,000
AG-AA	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRV CACASTRO GEOQUIMICO

15.01.76

FILA. 75

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEFAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ034 A JF0066	FAJ034 B JF0066	FAJ035 A JF0067	FAJ035 B JF0067	FAJ036 A JF0068	FAJ036 B JF0068	FAJ037 A JF0069	FAJ037 B JF0069	FAJ038 A JF0070	FAJ038 B JF0070
	4400,000	10000,000	3300,000	7700,000	4000,000	11000,000	2900,000	8800,000	4000,000	10000,000
	160,000	260,000	130,000	180,000	140,000	300,000	120,000	300,000	160,000	300,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEPAL DO PROJETO SANTANA

NUM. LAB.	FAJ039 A	FAJC39 B	FAJC40 A	FAJC40 B	FAJ041 A	FAJ041 B	FAJ042 A	FAJC42 B	FAJ043 A	FAJ043 B
NUM. CAMPO	JF0071	JF0071	JF0072	JF0072	JF0073	JF0073	JF0074	JF0074	JF0075	JF0075
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CUSTO	310	310	310	310	310	310	310	310	310	310
PRECISENCA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III	SB.24-Y-D-III
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0045	0045	0052	0052	0056	0056	0008	0008	0008	0008
ORDENADA - Y	0106	0106	0120	0120	0132	0132	0073	0073	0072	0072
UTM - LAT.	484000	484000	484000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S	S	S	S	S	S	S	S	S
TIFC AMOST.	B	B	B	B	B	B	B	B	B	B
FCNTE AMOST.	L	L	L	L	L	L	L	L	L	L
ROCHA REC.										
ID. GEOLG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. COLT.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIFC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TPCG.										
SIT. AMOST.	A	A	A	A	A	A	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIFC MINER.										
DEP. CCCCR.	10	10	10	10	25	25	15	15	2	2
LARGURA RIO										
PROFUND. RIO										
VELOC. CORR.	0	0	0	0	0	0	1	1	0	0
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										
POS. COLETA	C	C	C	C	C	C	C	C	C	C
CCR AGUA										
GRAU AFREC.										
VOL. CRIGIN.										
PESO ECNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIFC SCLD										

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.210

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ039 A	FAJC39 B	FAJC40 A	FAJC40 B	FAJ041 A	FAJ041 B	FAJ042 A	FAJC42 B	FAJC43 A	FAJ043 B
NUM. CAMPO	JF0071	JF0071	JFCC72	JF0072	JF0073	JF0073	JF0074	JFCC74	JF0075	JF0075
AMP. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

ANALISE 1	NU	36	NU	36	NU	37	NU	37	NU	37	NU	38	NU	38
ANALISE 2	NU	36	NU	36	NU	37	NU	37	NU	38	NU	38	NU	38
ANALISE 3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
ANALISE 4														
CODIF. LIVRE	J042	J042	J042C	J042C	J042	J042	M041C	M041C	M041	M041				

PARAMETROS ANALITICOS

FE-S %	1,500	5,000	0,700	1,500	0,700	3,000	1,500	7,000	1,500	5,000
MG-S %	0,300	0,500	0,150	0,300	0,150	0,700	0,300	1,500	0,300	1,000
CA-S %	0,700	1,000	0,700	1,000	0,700	1,000	1,500	3,000	1,000	3,000
TI-S %	0,700	+1,000	0,150	0,500	0,300	1,000	0,700	1,000	0,700	1,000
MN-S	700,000	1500,000	300,000	700,000	300,000	700,000	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	150,000	50,000	50,000	30,300	-10,000	70,000	100,000	70,000	15,000	50,000
BA-S	+5000,000	+5000,000	1500,000	2000,000	2000,000	2000,000	+5000,000	3000,000	3000,000	3000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	1,000	-1,000	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	5,000	5,000	5,000	10,000	7,000	15,000	5,000	10,000
CR-S	10,000	200,000	-10,000	70,000	-10,000	70,000	20,000	100,000	15,000	100,000
CU-S	20,000	20,000	10,000	15,000	15,000	20,000	7,000	50,000	15,000	30,000
LA-S	20,000	200,000	20,000	20,000	30,000	20,000	20,000	100,000	20,000	70,000
MO-S	-5,000	-5,000	-5,000	NAO DET.	-5,000	5,000	5,000	10,000	7,000	7,000
NE-S	15,000	30,000	-10,000	10,000	10,000	20,000	30,000	20,000	-10,000	20,000
NI-S	10,000	20,000	7,000	15,000	7,000	30,000	15,000	50,000	15,000	30,000
PB-S	30,000	50,000	15,000	20,000	10,000	30,000	20,000	70,000	20,000	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	-5,000	INTERFER.	NAO DET.	5,000	NAO DET.	10,000	5,000	20,000	-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	NAO DET.	100,000	NAO DET.	100,000	100,000	100,000	NAO DET.	300,000	100,000	200,000
V-S	50,000	100,000	30,000	50,000	30,000	70,000	30,000	100,000	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	NAO DET.	100,000	NAO DET.	10,000	NAO DET.	30,000	-10,000	50,000	10,000	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	-200,000	NAO DET.	NAO DET.	NAO DET.	200,000	NAO DET.	-200,000
ZR-S	150,000	+1000,000	150,000	700,000	150,000	1000,000	150,000	1000,000	+1000,000	1000,000
CU-AA	5,000	10,000	5,000	10,000	5,000	15,000	10,000	25,000	10,000	25,000
PE-AA	10,000	25,000	5,000	15,000	10,000	25,000	INTERFER.	INTERFER.	INTERFER.	INTERFER.
ZN-AA	20,000	35,000	10,000	30,000	15,000	60,000	35,000	95,000	40,000	85,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	NAO DET.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
RI-AA										
CC-AA										

CPRM CADASTRO GEOQUIMICO

15.01.76 FLA. 78

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GEPAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMFO TE-AA AU-AA	FAJC39 A JF0071	FAJC39 B JF0071	FAJC40 A JFC072	FAJC40 B JF0072	FAJ041 A JF0073	FAJ041 B JF0073	FAJC42 A JF0074	FAJC42 B JF0074	FAJC43 A JF0075	FAJ043 B JF0075
	3500,000 150,000	7600,000 280,000	2400,000 110,000	6400,000 220,000	3700,000 160,000	12000,000 360,000	7400,000 190,000	15000,000 370,000	8200,000 210,000	15000,000 330,000

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ044 A	FAJ044 B	FAJC45 A	FAJC45 B	FAJ046 A	FAJ046 B	FAJC47 A	FAJC47 B	FAJC48 A	FAJ048 B
NUM. CAMPO	JF0076	JF0076	JFCC77	JF0077	JF0078	JF0078	JF0079	JF0079	JF0080	JF0080
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III	D-III
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0008	0008	0007	0007	0006	0006	0005	0005	0004	0004
ORDENADA - Y	0070	0070	0067	0067	0063	0063	0060	0060	0056	0056
UTM - LAT.	484000	484000	484000	484000	484000	484000	484000	484000	484000	484000
UTM - LONG.	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000	09182000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLCG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MAT. CCLET.	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV	ALUV
PLUVIOSIDADE	A	A	A	A	A	A	A	A	A	A
TIPC VEGET.	A	A	A	A	A	A	A	A	A	A
SIT. TCPCG.										
SIT. AMOST.	A	A	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTIMP.										
TIPC ALTER.										
TIPC MINER.										
DEP. CCCCP.										
LARGURA FIO	5	5	3	3	6	6	5	5	2	2
PROFUND. FIO										
VELOC. CORR.	0	0	0	0	1	1	1	1	0	0
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
APFA CRENAG.	1	1	1	1	1	1	1	1	1	1
TURB. AGUA										
POS. CCLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VOL. ORICIN.										
PESO CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLC										
TIPC SCLC										



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ044 A	FAJ044 B	FAJ045 A	FAJ045 B	FAJ046 A	FAJ046 B	FAJ047 A	FAJ047 B	FAJ048 A	FAJ048 B
NUM. CAMPO	JF0076	JF0076	JF0077	JF0077	JF0078	JF0078	JF0079	JF0079	JF0080	JF0080
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
ANALISE 1	NU	38	NU	38	NU	39	NU	39	NU	40
ANALISE 2	ND	1	ND	1	ND	1	ND	1	ND	1
ANALISE 3			NU	39	NU	39			NU	40
ANALISE 4			ND	1	ND	1			ND	1
CODIF. LIVRE	MO41C	MO41C	MO41	MO41	MO41C	MO41C	MO41	MO41	MO41C	MO41C

PARAMETROS ANALITICOS

FF-S %	3,000	5,000	0,700	5,000	1,500	7,000	3,000	5,000	3,000	7,000
MG-S %	0,700	1,000	0,300	1,000	0,300	1,500	0,700	1,500	1,000	1,500
CA-S %	1,500	2,000	0,700	5,000	1,500	5,000	2,000	5,000	1,500	2,000
TI-S %	0,700	0,700	0,150	1,000	0,700	1,000	0,700	1,000	0,500	0,700
MN-S	700,000	700,000	300,000	700,000	700,000	1000,000	1000,000	1500,000	500,000	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	20,000	50,000	70,000	50,000	15,000	70,000	50,000	70,000	20,000	70,000
BA-S	2000,000	3000,000	700,000	2000,000	5000,000	3000,000	+5000,000	3000,000	2000,000	3000,000
BE-S	1,000	1,000	-1,000	1,000	-1,000	1,500	-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.	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	7,000	10,000	5,000	7,000	7,000	15,000	7,000	7,000	7,000	15,000
CR-S	70,000	100,000	15,000	100,000	20,000	150,000	30,000	100,000	70,000	150,000
CU-S	30,000	30,000	5,000	30,000	20,000	50,000	30,000	50,000	30,000	30,000
LA-S	50,000	70,000	20,000	50,000	20,000	100,000	20,000	70,000	50,000	100,000
MO-S	10,000	10,000	-5,000	-5,000	-5,000	10,000	5,000	-5,000	7,000	15,000
NR-S	15,000	10,000	-10,000	20,000	15,000	50,000	30,000	15,000	10,000	20,000
NI-S	30,000	50,000	10,000	30,000	15,000	70,000	20,000	30,000	30,000	70,000
PB-S	30,000	50,000	10,000	50,000	20,000	70,000	30,000	50,000	50,000	50,000
SB-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	15,000	-5,000	15,000	5,000	30,000	10,000	15,000	15,000	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	200,000	200,000	NAC DET.	300,000	-100,000	300,000	200,000	300,000	150,000	200,000
V-S	70,000	70,000	30,000	70,000	30,000	100,000	70,000	100,000	70,000	100,000
W-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
Y-S	30,000	30,000	NAC DET.	30,000	-10,000	50,000	20,000	30,000	30,000	50,000
ZN-S	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	-200,000	NAO DET.	200,000	NAO DET.	-200,000
ZR-S	300,000	700,000	150,000	700,000	150,000	700,000	700,000	700,000	150,000	500,000
CU-AA	20,000	20,000	5,000	15,000	10,000	25,000	20,000	35,000	25,000	30,000
PE-AA	INTERFER.	20,000	INTERFER.	30,000	INTERFER.	30,000	INTERFER.	35,000	INTERFER.	25,000
ZN-AA	55,000	60,000	20,000	55,000	30,000	110,000	60,000	130,000	75,000	90,000
AG-AA	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.	INTERFER.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRM

CADASTRO GEOQUIMICO

15.01.76

FLA. 81

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJC44 A JF0076	FAJ044 B JF0076	FAJC45 A JF0077	FAJ045 B JF0077	FAJ046 A JF0078	FAJ046 B JF0078	FAJC47 A JF0079	FAJC47 B JF0079	FAJC48 A JF0080	FAJ048 B JF0080
	12000,000	13000,000	5100,000	10000,000	5900,000	15000,000	9800,000	15000,000	19000,000	+20000,000
	320,000	330,000	130,000	280,000	180,000	480,000	330,000	590,000	300,000	310,000

ARQUIVO GFRAL DO PROJETO SANTANA

NUM. LAB.	FAJ049 A	FAJC49 B	FAJC50 A	FAJC50 B	FAJ051 A	FAJ051 B	FAJ052 A	FAJC52 B	FAJC53 A	FAJ053 B
NUM. CAMPO	JF0081	JF0081	JF0082	JF0082	JF0083	JF0083	JF0084	JF0084	JF0085	JF0085
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
DETERMINACAO	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0054	0054	0054	0054	0055	0055	0056	0056	0058	0058
ORDENADA - Y	0033	0033	0034	0034	0033	0033	0034	0034	0035	0035
UTM - LAT.	482000	482000	482000	482000	482000	482000	482000	482000	482000	482000
UTM - LONG.	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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 REC.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TPCOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PRCF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. COCCR.										
LARGURA PLO	5	5	5	5	10	10	5	5	5	5
PROFUND. PLO										
VFLDC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGLA	2	2	2	2	2	2	2	2	2	2
AREA DEFNAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARREC.										
VCL. FRIGIN.										
PESO CONC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SCLO										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ049 A	FAJ049 B	FAJ050 A	FAJ050 B	FAJ051 A	FAJ051 B	FAJ052 A	FAJ052 B	FAJ053 A	FAJ053 B
NUM. CAMPO	JF0081	JF0081	JF0082	JF0082	JF0083	JF0083	JF0084	JF0084	JF0085	JF0085
AMB. ETOTICC										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
ANALISE 1			NU 41	NU 41			NU 42	NU 42		
ANALISE 2			ND 1	ND 1			ND 1	ND 1		
ANALISE 3	NU 41	NU 41			NU 42	NU 42			NU 43	NU 43
ANALISE 4	ND 1	ND 1			ND 1	ND 1			ND 1	ND 1
COORDIF. LIVRE	J051	J051	J051C	J051C	J051	J051	J051C	J051C	J051	J051

PARAMETROS ANALITICOS

FE-S %	0,200	1,500	0,200	3,000	2,000	5,000	1,500	7,000	0,500	3,000
MG-S %	0,050	0,100	0,050	0,300	0,030	0,100	0,030	0,100	0,070	0,300
CA-S %	0,150	0,500	0,200	0,700	0,100	0,500	0,150	0,500	0,300	0,700
TI-S %	0,070	1,000	0,070	1,000	+1,000	+1,000	+1,000	+1,000	0,100	+1,000
MN-S	150,000	700,000	200,000	1000,000	1500,000	5000,000	1000,000	+5000,000	200,000	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	NAC 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.	NAC DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
B-S	NAO DET.	70,000	NAO DET.	15,000	30,000	70,000	30,000	70,000	NAO DET.	50,000
BA-S	700,000	3000,000	1000,000	3000,000	3000,000	+5000,000	3000,000	+5000,000	1000,000	3000,000
BE-S	-1,000	-1,000	-1,000	-1,000	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	-1,000
BI-S	NAO DET.	NAO DET.	NAC DET.	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAC DET.
CO-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
CO-S	5,000	5,000	5,000	5,000	7,000	5,000	5,000	5,000	5,000	5,000
CR-S	-10,000	15,000	-10,000	20,000	-10,000	70,000	-10,000	70,000	-10,000	30,000
CU-S	7,000	20,000	7,000	15,000	-5,000	5,000	7,000	7,000	5,000	7,000
LA-S	30,000	-20,000	30,000	20,000	30,000	100,000	20,000	20,000	20,000	30,000
MO-S	NAO DET.	NAO DET.	NAO DET.	-5,000	5,000	NAO DET.	-5,000	NAO DET.	NAO DET.	-5,000
NB-S	-10,000	20,000	-10,000	20,000	70,000	30,000	50,000	50,000	-10,000	50,000
NI-S	-5,000	10,000	-5,000	20,000	-5,000	-5,000	-5,000	5,000	-5,000	10,000
PB-S	-10,000	20,000	10,000	30,000	-10,000	30,000	10,000	20,000	10,000	30,000
SB-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAC DET.	NAO DET.
SC-S	NAO DET.	INTERFER.	NAO DET.	INTERFER.	-5,000	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
SN-S	NAC DET.	NAO DET.	NAC DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S	15,000	50,000	15,000	50,000	50,000	70,000	50,000	70,000	20,000	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	NAO DET.	10,000	NAO DET.	15,000	10,000	200,000	NAO DET.	100,000	NAO DET.	30,000
ZN-S	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.
ZR-S	150,000	+1000,000	150,000	+1000,000	+1000,000	+1000,000	500,000	+1000,000	150,000	+1000,000
CU-AA	-5,000	5,000	-5,000	5,000	-5,000	5,000	-5,000	5,000	-5,000	5,000
PB-AA	5,000	10,000	-5,000	10,000	5,000	15,000	5,000	15,000	5,000	10,000
ZN-AA	5,000	15,000	5,000	25,000	5,000	10,000	5,000	10,000	5,000	20,000
AG-AA	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.	NAC DET.
CO-AA										
NI-AA										
BT-AA										
CC-AA										

CPRM CACASTRO GEOQUIMICO

15.01.76 FLA. 84

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ049 A JF0081	FAJ049 B JF0081	FAJ050 A JF0082	FAJ050 B JF0082	FAJ051 A JF0083	FAJ051 B JF0083	FAJ052 A JF0084	FAJ052 B JF0084	FAJ053 A JF0085	FAJ053 B JF0085
	1600,000 85,000	3500,000 180,000	1700,000 80,000	6700,000 270,000	3200,000 95,000	4000,000 140,000	2600,000 90,000	4200,000 150,000	1500,000 80,000	5600,000 200,000

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ053AA	FAJ053AB	FAJ054 A	FAJ054 B	FAJ055 A	FAJ055 B	FAJ056 A	FAJ056 B	FAJ057 A	FAJ057 B
NUM. CAMPO	JF0085	JF0085	JF0086	JF0086	JF0087	JF0087	JF0088	JF0088	JF0089	JF0089
C. CUSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI
BASE CART.										
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABSCISSA - X	0058	0058	0062	0062	0062	0062	0060	0060	0065	0065
ORDENADA - Y	0035	0035	0035	0035	0032	0032	0029	0029	0021	0021
UTM - LAT.	482000	482000	482000	482000	482000	482000	482000	482000	482000	482000
UTM - LONG.	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

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.										
ID. CECLOG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	A	A	A	A	A	A	A	A	A	A
SIT. TOPOG.										
SIT. AMOST.	C	C	C	C	C	C	C	C	C	C
ALTITUDE										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PREC.										
GRAU INTEMP.										
TIPO ALTER.										
TIPO MINER.										
DEF. CCCER.										
LARGURA RIO	5	5	15	15	10	10	10	10	10	10
PROFUND. RIO										
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CRENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
POS. CLEFTA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ABREC.										
VCL. CRIST.										
PFSO CCNC.										
GRANULOMET.										
TEXT. SEDIM.										
COR SEC./SL.										
HORIZ. SCLO										
TIPO SELE										

S F A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ053AA	FAJC53AB	FAJC54 A	FAJC54 B	FAJ055 A	FAJ055 B	FAJ056 A	FAJC56 B	FAJC57 A	FAJ057 B
NUM. CAMPO	JF0085	JF0085	JFC086	JF0086	JF0087	JF0087	JF0088	JFC088	JF0089	JF0089
AMB. BICTICO										

PARAMETROS ANALITICOS DE CAMPO

EH	43				44				45	
PH	1				1				1	
METAL TOTAL	NU	ND	NU	ND	NU	ND	NU	ND	NU	ND
ANALISE 1										
ANALISE 2										
ANALISE 3	43		43		44		44		45	
ANALISE 4	1		1		1		1		1	
COCIF. LIVRE	J051		J051		J051		J052C		J052	

PARAMETROS ANALITICOS

FE-S %			0,700	3,000	0,700	7,000	0,700	5,000	0,300	2,000
MG-S %			0,050	0,100	0,070	0,100	0,050	0,070	0,050	0,100
CA-S %			0,150	0,500	0,150	0,500	0,150	0,500	0,100	0,500
TI-S %			1,000	+1,000	0,700	+1,000	0,700	+1,000	0,150	1,000
MN-S			700,000	1500,000	500,000	5000,000	300,000	3000,000	200,000	1000,000
AG-S			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.
AU-S			NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
B-S			15,000	70,000	20,000	100,000	15,000	100,000	NAO DET.	10,000
BA-S			3000,000	5000,000	2000,000	+5000,000	1500,000	+5000,000	1000,000	3000,000
BF-S			-1,000	-1,000	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.
BT-S			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.
CO-S			5,000	5,000	5,000	7,000	5,000	5,000	5,000	5,000
CR-S			-10,000	30,000	10,000	100,000	-10,000	20,000	-10,000	10,000
CU-S			7,000	5,000	-5,000	10,000	7,000	20,000	-5,000	7,000
LA-S			20,000	30,000	20,000	20,000	20,000	150,000	30,000	20,000
MO-S			-5,000	NAO DET.	-5,000	-5,000	5,000	NAO DET.	NAO DET.	-5,000
NH-S			20,000	30,000	20,000	70,000	20,000	50,000	-10,000	20,000
NI-S			-5,000	5,000	-5,000	5,000	-5,000	-5,000	-5,000	5,000
PP-S			-10,000	20,000	-10,000	30,000	10,000	30,000	10,000	20,000
SE-S			NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SC-S			10,000	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	-5,000
SN-S			NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
SR-S			NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000
V-S			30,000	50,000	30,000	70,000	30,000	70,000	15,000	50,000
W-S			NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
Y-S			30,000	150,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	15,000
ZN-S			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	150,000	+1000,000	150,000	1000,000
CU-AA	-5,000	5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
PE-AA	5,000	10,000	5,000	10,000	5,000	20,000	5,000	15,000	5,000	10,000
ZN-AA	5,000	20,000	5,000	10,000	5,000	10,000	5,000	5,000	5,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BT-AA										
CO-AA										

CPRM CACASTRO GEOQUIMICO

15.01.76

FLA. 87

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GFFAL DC PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ053AA JF0085	FAJ053AB JF0085	FAJC54 A JFCC86	FAJC54 B JF0086	FAJ055 A JF0087	FAJ055 B JF0087	FAJ056 A JF0088	FAJC56 B JF0088	FAJC57 A JF0089	FAJ057 B JF0089
	1400,000 80,000	5100,000 220,000	2300,000 80,000	3400,000 140,000	2000,000 80,000	3900,000 140,000	1700,000 70,000	3500,000 140,000	1500,000 80,000	3000,000 130,000





S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ058 A	FAJ058 B	FAJ059 A	FAJ059 B	FAJ060 A	FAJ060 B	FAJ061 A	FAJ061 B	FAJ062 A	FAJ062 B
NUM. CAMPO	JF0090	JF0090	JFC091	JF0091	JF0092	JF0092	JF0093	JF0093	JF0094	JF0094
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

EH										
PH										
METAL TOTAL										
ANALISE 1	NU	45	NU	45	NU	46	NU	46	NU	47
ANALISE 2	ND	1	ND	1	ND	1	ND	1	ND	1
ANALISE 3					NU	46	NU	46	NU	47
ANALISE 4					ND	1	ND	1	ND	1
CODIF. LIVRE	J052C	J052C	J052	J052	J052C	J052C	J052	J052	M051C	M051C

PARAMETROS ANALITICOS

FE-S %	0,300	1,500	0,700	5,000	0,700	7,000	0,700	7,000	0,300	1,500
NG-S %	0,050	0,100	0,050	0,150	0,070	0,150	0,030	0,300	0,020	0,300
CA-S %	0,150	0,500	0,150	0,500	0,150	0,700	0,150	0,700	0,200	0,700
TI-S %	0,500	1,000	0,300	+1,000	0,500	+1,000	0,500	+1,000	0,070	0,700
MN-S	300,000	700,000	300,000	1500,000	300,000	+5000,000	500,000	+5000,000	200,000	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.	10,000	NAO DET.	50,000	NAO DET.	100,000	10,000	50,000	50,000	30,000
BA-S	1500,000	5000,000	2000,000	+5000,000	1500,000	+5000,000	700,000	+5000,000	1000,000	3000,000
BE-S	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	NAO DET.	-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	5,000	7,000	5,000	10,000	5,000	7,000	5,000	5,000
CP-S	-10,000	10,000	-10,000	50,000	10,000	70,000	-10,000	30,000	-10,000	15,000
CU-S	7,000	5,000	30,000	20,000	50,000	20,000	-5,000	10,000	-5,000	5,000
LA-S	30,000	20,000	30,000	NAO DET.	20,000	30,000	30,000	50,000	30,000	20,000
MO-S	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	NAO DET.	NAO DET.	5,000
NB-S	10,000	30,000	10,000	70,000	10,000	30,000	20,000	70,000	-10,000	15,000
NI-S	-5,000	-5,000	-5,000	10,000	5,000	7,000	-5,000	10,000	-5,000	10,000
PR-S	-10,000	20,000	10,000	20,000	10,000	30,000	-10,000	20,000	-10,000	30,000
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.	-5,000	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	-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.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	100,000	NAO DET.	150,000
V-S	30,000	30,000	20,000	70,000	30,000	100,000	30,000	150,000	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	NAO DET.	10,000	NAO DET.	30,000	NAO DET.	700,000	NAO DET.	150,000	NAO DET.	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	100,000	+1000,000	150,000	+1000,000	150,000	+1000,000	150,000	+1000,000
CU-AA	-5,000	-5,000	-5,000	5,000	5,000	5,000	-5,000	-5,000	-5,000	5,000
PE-AA	5,000	5,000	5,000	10,000	5,000	20,000	5,000	10,000	5,000	5,000
ZN-AA	5,000	10,000	5,000	10,000	10,000	10,000	5,000	10,000	5,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	INTERFER.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CD-AA										

CPRM CADASTRO GEOQUIMICO

15.01.76

FLA. 90

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ058 A JF0090	FAJ058 B JF0090	FAJ059 A JFCC91	FAJ059 B JF0091	FAJ060 A JF0092	FAJ060 B JF0092	FAJ061 A JF0093	FAJ061 B JF0093	FAJ062 A JF0094	FAJ062 B JF0094
	1400,000 80,000	2900,000 140,000	1400,000 75,000	4400,000 180,000	2900,000 80,000	4600,000 160,000	1700,000 70,000	2500,000 120,000	1800,000 90,000	4400,000 190,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ063 A	FAJ063 B	FAJ064 A	FAJ064 B	FAJ065 A	FAJ065 B	FAJ066 A	FAJ066 B	FAJ067 A	FAJ067 B
NUM. CAMPO	JF0095	JF0095	JF0096	JF0096	JF0097	JF0097	JF0098	JF0098	JF0099	JF0099
C. CLSTO	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
S. CLSTO	310	310	310	310	310	310	310	310	310	310
PRECEDENCIA	AD	AD	AD	AD	AD	AD	AD	AD	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI	D-VI
ESCALA	0025	0025	0025	0025	0025	0025	0025	0025	0025	0025
DATA	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75	07/75
LATITUDE										
LONGITUDE										
ABCISSA - X	0052	0052	0051	0051	0048	0048	0045	0045	0043	0043
ORDENADA - Y	0034	0034	0035	0035	0037	0037	0037	0037	0038	0038
UTM - LAT.	482000	482000	482000	482000	482000	482000	482000	482000	482000	482000
UTM - LONG.	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000	09168000
MER. CENT.	39	39	39	39	39	39	39	39	39	39

PARÂMETROS 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 REC.										
ID. GEOLÓG.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
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.	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										
PROF. AMOST.										
FORMA IGNEA										
SIT. ESTRUT.										
MATRIZ PED.										
GRAU INTENS.										
TIPO ALTER.										
TIPO MINER.										
DEP. CCCC.										
LARGURA RIO	10	10	15	15	15	15	15	15	5	5
PROFUND. RIO										
VELOC. CORR.	3	3	3	3	3	3	3	3	3	3
NIVEL AGUA	2	2	2	2	2	2	2	2	2	2
AREA CFENAG.	2	2	2	2	2	2	2	2	2	2
TURB. AGUA										
PCS. COLETA	C	C	C	C	C	C	C	C	C	C
COR AGUA										
GRAU ARRED.										
VOL. CRIGIN.										
PESC CCNC.										
GRANULOMET.										
TEXT. SECIM.										
COR SEC./SL.										
HORIZ. SCLD										
TIPO SCLD										

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ063 A	FAJ063 B	FAJ064 A	FAJ064 B	FAJ065 A	FAJ065 B	FAJ066 A	FAJ066 B	FAJ067 A	FAJ067 B
NUM. CAMPO	JF0095	JF0095	JF0096	JF0096	JF0097	JF0097	JF0098	JF0098	JF0099	JF0099
AMB. BIOTICO										

PARAMETROS ANALITICOS DE CAMPO

FH  
PF

METAL TOTAL

ANALISE 1

ANALISE 2

ANALISE 3

ANALISE 4

COND. LIVRE

NU 48  
ND 1

NU 48  
ND 1

NU 49  
ND 1

NU 49  
ND 1

NU 50  
ND 1

NU 50  
ND 1

PARAMETROS ANALITICOS

	MOS1	MOS1	MOS1C	MOS1C	MOS1	MOS1	MOS1C	MOS1C	MOS1	MOS1
FE-S %	0,700	3,000	1,000	5,000	0,700	5,000	0,700	10,000	0,500	2,000
MG-S %	0,030	0,100	0,030	0,100	0,030	0,200	0,020	0,300	0,020	0,200
CA-S %	0,150	0,700	0,100	0,700	0,150	0,700	0,150	0,700	0,100	0,700
TI-S %	0,500	+1,000	0,700	+1,000	0,700	+1,000	0,700	+1,000	0,100	1,000
MN-S	300,000	1500,000	500,000	3000,000	700,000	2000,000	300,000	+5000,000	200,000	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	150,000	150,000	150,000	10,000	50,000	30,000	70,000	-10,000	50,000
BA-S	1000,000	3000,000	1000,000	5000,000	1500,000	+5000,000	700,000	+5000,000	700,000	+5000,000
BE-S	-1,000	NAO DET.	-1,000	NAO DET.	-1,000	-1,000	-1,000	NAO DET.	-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.
CC-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	5,000	7,000	5,000	5,000	5,000	15,000	5,000	-5,000
CO-S	-10,000	10,000	-10,000	20,000	-10,000	20,000	-10,000	30,000	-10,000	15,000
CR-S	-5,000	5,000	-5,000	5,000	-5,000	5,000	-5,000	15,000	-5,000	7,000
CU-S	30,000	20,000	30,000	20,000	30,000	20,000	30,000	20,000	30,000	200,000
LA-S	NAO DET.	NAO DET.	-5,000	NAO DET.	NAO DET.	-5,000	NAO DET.	-5,000	NAO DET.	5,000
MO-S	NAO DET.	NAO DET.	10,000	50,000	10,000	70,000	15,000	70,000	-10,000	30,000
NE-S	-10,000	50,000	-5,000	5,000	-5,000	10,000	-5,000	10,000	-5,000	7,000
NI-S	-5,000	5,000	-5,000	5,000	-5,000	10,000	-5,000	10,000	-5,000	7,000
PE-S	NAO DET.	20,000	NAO DET.	20,000	NAO DET.	30,000	NAO DET.	50,000	NAO DET.	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	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.	NAO DET.	INTERFER.
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.	150,000	NAO DET.	150,000	NAO DET.	200,000	NAO DET.	150,000	NAO DET.	150,000
V-S	30,000	50,000	30,000	70,000	30,000	70,000	30,000	100,000	15,000	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	50,000	NAO DET.	50,000	NAO DET.	70,000	NAO DET.	150,000	NAO DET.	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	150,000	+1000,000	150,000	+1000,000	500,000	+1000,000	+1000,000	+1000,000	500,000	+1000,000
CU-AA	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000	-5,000
PE-AA	5,000	5,000	5,000	10,000	5,000	10,000	5,000	10,000	-5,000	5,000
ZN-AA	5,000	5,000	5,000	5,000	5,000	10,000	5,000	10,000	5,000	10,000
AG-AA	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.	NAO DET.
CO-AA										
NI-AA										
BI-AA										
CC-AA										

CPRM CACASTRO GEOQUIMICO

15.01.76

FLA. 93

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. NUM. CAMPO TE-AA AU-AA	FAJ063 A JF0095	FAJ063 B JF0095	FAJ064 A JF0096	FAJ064 B JF0096	FAJ065 A JF0097	FAJ065 B JF0097	FAJ066 A JF0098	FAJ066 B JF0098	FAJ067 A JF0099	FAJ067 B JF0099
	1900,000 75,000	2400,000 140,000	2000,000 80,000	3300,000 140,000	2000,000 85,000	3700,000 140,000	1900,000 90,000	4500,000 190,000	1400,000 75,000	3100,000 150,000

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJ068 A	FAJ068 B
NUM. CAMPO	JF0100	JF0100
C. CUSTO	1523	1523
S. CUSTO	310	310
PRECEDENCIA	AD	AD
BASE CART.	SB.24-Y-	SB.24-Y-
BASE CART.	D-VI	D-VI
BASE CART.		
ESCALA	0025	0025
DATA	07/75	07/75
LATITUDE		
LONGITUDE		
ABSCISSA - X	0041	0041
ORDENADA - Y	0041	0041
UTM - LAT.	482000	482000
UTM - LONG.	C9168000	C9168000
MER. CENT.	39	39

## PARAMETROS DESCRITIVOS DE CAMPO

CLAS. AMOST.	S	S
TIPO AMOST.	B	B
FONTE AMOST.	L	L
ROCHA REC.		
IC. GEOLG.	MI	MI
MAT. COLET.	ALUV	ALUV
PLUVIOSIDADE	A	A
TIPO VEGET.	A	A
SIT. TOPOG.	A	A
SIT. AMOST.	C	C
ALTITUDE		
PROF. AMOST.		
FORMA IGNEA		
SIT. ESTRUT.		
MATRIZ PFEC.		
GRAU INTIMP.		
TIPO ALTER.		
TIPO MINER.		
DEP. OCCOR.		
LARGURA RIO	10	10
PROFUND. RIO		
VELOC. CORR.	3	3
NIVEL AGUA	2	2
AREA CRENAG.	2	2
TURB. AGUA		
POS. COLETA	C	C
COR AGUA		
GRAU AFREC.		
VCL. CRIGIN.		
PESC CCNC.		
GRANULOMET.		
TEXT. SEDIM.		
COR SEC./SL.		
HORIZ. SGLD		
TIPO SCLD		

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB. FAJ068 A FAJ068 B  
 NUM. CAMFC JF0100 JF0100  
 AMB. BIGTICO

PARAMETROS ANALITICOS DE CAMPO

FH  
 PH  
 METAL TOTAL  
 ANALISE 1 NU 50 NU 50  
 ANALISE 2 ND 1 ND 1  
 CODIF. LIVRE M051C M051C

PARAMETROS ANALITICOS

FE-S %	0,700	5,000
MG-S %	0,020	0,100
CA-S %	0,150	1,000
TI-S %	0,700	+1,000
MN-S	500,000	2000,000
AG-S	NÃO DET.	NÃO DET.
AS-S	NÃO DET.	NÃO DET.
AU-S	NÃO DET.	NÃO DET.
B-S	15,000	50,000
BA-S	1500,000	+5000,000
BF-S	1,500	NÃO DET.
BI-S	NÃO DET.	NÃO DET.
CD-S	NÃO DET.	NÃO DET.
CO-S	5,000	5,000
CR-S	-10,000	15,000
CU-S	-5,000	5,000
LA-S	30,000	20,000
MO-S	-5,000	-5,000
NB-S	20,000	70,000
NI-S	-5,000	5,000
PB-S	10,000	30,000
SE-S	NÃO DET.	NÃO DET.
SC-S	NÃO DET.	INTERFER.
SN-S	NÃO DET.	NÃO DET.
SR-S	NÃO DET.	150,000
V-S	30,000	70,000
W-S	NÃO DET.	NÃO DET.
Y-S	10,000	70,000
ZN-S	NÃO DET.	NÃO DET.
ZR-S	+1000,000	+1000,000
CU-AA	-5,000	-5,000
PD-AA	5,000	5,000
ZN-AA	5,000	5,000
AG-AA	NÃO DET.	NÃO DET.
CO-AA		
NI-AA		
HT-AA		
CC-AA		
TE-AA		
AU-AA		



CFRM CACASTRO GEOQUIMICO

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

15.01.76

FIA. 96

ARQUIVO GERAL DO PROJETO SANTANA

NUM. LAB.	FAJC68 A	FAJC68 B
NUM. CAMPO	JF0100	JF0100
	2600,000	3100,000
	100,000	130,000

S E A S PROJETO = SANTANA

CENTRO DE CUSTO = 1523:310

ARENITOS FACIES A

A M O S T R A S

VARIÁVEL	JF55548	JF0015	JF0056	JF0038	JF0229	JF0264	JA0087	JA0173	JA0189
LATITUDE	0:2603E 05	0:2657E 05	0:2644E 05	0:2643E 05	0:2573E 05	0:2559E 05	0:2561E 05	0:2757E 05	0:2750E 05
LONGITUD	0:1420E 06	0:1412E 06	0:1417E 06	0:1414E 06	0:1422E 06	0:1432E 06	0:1429E 06	0:1415E 06	0:1419E 06
UTM-ABC	0:4615E 06	0:4744E 06	0:4588E 06	0:4680E 06	0:4435E 06	0:4155E 06	0:4238E 06	0:4672E 06	0:4531E 06
UTM-ORD	0:9201E 07	0:9184E 07	0:9188E 07	0:9188E 07	0:9210E 07	0:9214E 07	0:9214E 07	0:9154E 07	0:9156E 07
M. C.	39:00	39:00	39:00	39:00	39:00	39:00	39:00	39:00	39:00
FE-S %	5:000	7:000	7:000	7:000	3:000	0:7000	3:000	15:00	10:00
MG-S %	0:7000	1:000	0:7000	0:7000	0:7000	0:2000	1:500	2:000	1:000
CA-S %	L 0:5000	0:1500	0:5000E-01	0:3000	0:3000	0:2000	20:00	1:000	0:7000
TI-S %	0:7000	0:7000	0:7000	0:7000	0:7000	0:1000E 00	0:1500	0:7000	1:000
MN-S	200.0	500.0	300.0	700.0	100.0	200.0	G 500.0	300.0	300.0
AG-S	V 0:5000	N 0:5000	V 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	V 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00
B-S	20:00	50:00	20:00	30:00	70:00	50:00	L 10:00	20:00	100:0
BA-S	2000:	1500:	1500:	3000:	2000:	5000:	700:0	3000:	3000:
BE-S	1:500	1:500	2:000	L 1:000	1:500	L 1:000	L 1:000	3:000	L 1:000
BI-S	N 10:00	N 10:00	V 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00
CO-S	N 20:00	N 20:00	N 20:00	N 20:00	N 20:00	N 20:00	N 20:00	N 20:00	N 20:00
CO-S	5:000	7:000	10:00	7:000	5:000	L 5:000	7:000	20:00	7:000
CR-S	150.0	70.00	70:00	70:00	100.0	100.0	300.0	150.0	200.0
CU-S	7:000	30.00	20:00	30:00	5:000	7:000	7:000	30:00	15:00
LA-S	50:00	50.00	70:00	70:00	20:00	30:00	100:0	50:00	30:00
MO-S	L 5:000	7:000	7:000	N 5:000	L 5:000	N 5:000	N 5:000	L 5:000	10:00
NS-S	10:00	10:00	15:00	10:00	10:00	L 10:00	L 10:00	15:00	20:00
NI-S	20:00	30:00	30:00	30:00	20:00	15:00	30:00	100:0	H 20:00
PR-S	30:00	70:00	30:00	30:00	30:00	300.0	30:00	100.0	70:00
SP-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10:00	H 20:00	H 15:00	H 10:00	15:00	5:000	15:00	20:00	H 20:00
SN-S	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00	N 10:00
SR-S	L 100.0	N 100.0	N 100.0	N 100.0	100.0	200.0	300.0	100.0	150.0
V-S	70:00	300:0	150:0	150:0	70:00	70:00	70:00	150:0	300:0
W-S	N 50:00	N 50:00	V 50:00	N 50:00	N 50:00	N 50:00	N 50:00	N 50:00	N 50:00
Y-S	50:00	70:00	100:0	30:00	20:00	L 10:00	50:00	20:00	20:00
ZN-S	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	N 200.0	300.0	L 200.0
ZR-S	150:0	G 1000.	G 1000.	G 1000.	300.0	100:0	150.0	200.0	G 1000.
CU-AA	5:000	15:00	10:00	10:00	L 5:000	5:000	15:00	15:00	5:000
PB-AA	20:00	35:00	20:00	15:00	15:00	90:00	H 30:00	35:00	20:00
ZN-AA	10:00	30:00	20:00	15:00	10:00	40:00	20:00	75:00	15:00
AG-AA	V 0:5000	V 0:5000	V 0:5000	N 0:5000	H 0:5000	N 0:5000	H 1:500	H 0:5000	H 0:5000
CO-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0
NI-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0
BI-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0
CD-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0
TE-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0
AU-AA	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0	B 0:0

ARENITOS FACIES A

A M O S T R A S

VARIÁVEL	JA0227	JA0252	JA0287	JF0444	JF0590
LATITUDE	0.2703E 05	0.2707E 05	0.2773E 05	0.2732E 05	0.2619E 05
LONGITUD	0.1438E 06	0.1444E 06	0.1451E 06	0.1467E 06	0.1451E 06
UTM-ABC	0.4874E 06	0.3774E 06	0.3560E 06	0.3075E 06	0.3249E 06
UTM-ORD	0.9170E 07	0.9169E 07	0.9148E 07	0.9161E 07	0.9196E 07
M. C.	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	3.000	3.000	3.000	1.500
MG-S %	0.2000	0.3000	0.1000E 00	1.000	0.1000E 00
CA-S %	1.500	0.1000E 00	0.5000E-01	7.000	0.1000E 00
TI-S %	G 1.000	G 1.000	G 1.000	1.000	1.000
MN-S	1500.	500.0	200.0	1000.	200.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	100.0	50.00	50.00
BA-S	700.0	3000.	500.0	700.0	700.0
BE-S	N 1.000	2.000	L 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	10.00	5.000	7.000	5.000
CR-S	300.0	70.00	100.0	100.0	70.00
CU-S	20.00	10.00	15.00	20.00	20.00
LA-S	30.00	70.00	50.00	150.0	100.0
MO-S	15.00	N 5.000	5.000	L 5.000	5.000
NB-S	30.00	20.00	30.00	15.00	20.00
NI-S	H 30.00	20.00	20.00	15.00	15.00
PB-S	100.0	20.00	30.00	20.00	20.00
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	H 10.00	H 10.00	20.00	10.00	10.00
SN-S	H 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	L 100.0	150.0	100.0	N 100.0	200.0
V-S	300.0	70.00	100.0	100.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	70.00	30.00	50.00	30.00
ZN-S	L 200.0	L 200.0	L 200.0	N 200.0	N 200.0
ZR-S	G 1000.	G 1000.	1000.	G 1000.	G 1000.
CU-AA	5.000	5.000	10.00	10.00	10.00
PB-AA	10.00	30.00	15.00	5.000	5.000
ZN-AA	10.00	10.00	5.000	20.00	10.00
AG-AA	H 0.5000	H 0.5000	H 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARENITOS FACIES B.

A M O S T R A S

VARIÁVEL	JF0159B	JF0253	JA0041	JM0026	JF0337	JF0366	JF0369	JF0378	JA0154B
LATITUDE	0.2650E 05	0.2568E 05	0.2564F 05	0.2702E 05	0.2734E 05	0.2711E 05	0.2708E 05	0.2720F 05	0.2768E 05
LONGITUD	0.1416E 06	0.1430F 06	0.1424E 06	0.1425F 06	0.1414E 06	0.1411F 06	0.1411E 06	0.1410E 06	0.1414E 06
UTM-ABC	0.4646E 06	0.4207E 06	0.4377F 06	0.4370F 06	0.4582E 06	0.4785E 06	0.4793E 06	0.4824F 06	0.4699E 06
UTM-ORD	0.9186E 07	0.9212E 07	0.9213E 07	0.9170E 07	0.9151F 07	0.9168E 07	0.9169F 07	0.9165E 07	0.9150E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	3.000	3.000	5.000	5.000	5.000	10.00	5.000	10.00
MG-S %	1.500	1.500	1.500	0.1500	2.000	2.000	1.500	3.000	2.000
CA-S %	3.000	10.00	3.000	0.1500	1.000	3.000	1.000	3.000	10.00
TI-S %	0.7000	0.5000	0.7000	0.7000	G 1.000	0.3000	0.3000	0.5000	G 1.000
MN-S	700.0	1500.0	700.0	100.0	1000.0	700.0	700.0	500.0	1500.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 50.00	N 30.00	N 70.00	N 15.00	N 10.00	N 20.00	N 50.00	N 50.00	N 100.0
BA-S	1500.0	1500.0	700.0	200.0	3000.0	5000.0	2000.0	3000.0	3000.0
BE-S	3.000	L 1.000	1.500	L 1.000	5.000	2.000	2.000	3.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CD-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
CE-S	N 70.00	N 50.00	N 70.00	N 50.00	N 150.0	N 20.00	N 100.0	N 70.00	N 150.0
CU-S	7.000	7.000	5.000	10.00	10.00	5.000	20.00	10.00	20.00
LA-S	20.00	30.00	50.00	30.00	50.00	20.00	30.00	30.00	30.00
MO-S	N 5.000	N 7.000	N 5.000	L 5.000	L 5.000	N 5.000	15.00	L 5.000	L 5.000
NB-S	N 15.00	L 10.00	20.00	20.00	30.00	15.00	10.00	10.00	20.00
NI-S	30.00	30.00	30.00	L 5.000	150.0	30.00	70.00	30.00	50.00
PB-S	30.00	50.00	30.00	200.0	50.00	50.00	30.00	30.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	H 10.00	7.000	H 10.00	N 30.00	20.00	10.00	N 20.00	10.00	H 15.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	300.0	L 100.0	200.0	150.0	100.0	100.0	150.0
V-S	70.00	50.00	70.00	70.00	100.0	70.00	100.0	100.0	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	N 50.00	N 30.00	100.0	200.0	100.0	20.00	50.00	15.00	70.00
ZN-S	N 200.0	N 200.0	N 200.0	200.0	200.0	200.0	200.0	200.0	200.0
ZR-S	G 1000.0	700.0	G 1000.0	1000.0	G 1000.0	1000.0	1000.0	700.0	1000.0
CI-AA	5.000	10.00	10.00	L 5.000	5.000	5.000	10.00	5.000	15.00
PB-AA	H 20.00	H 30.00	H 25.00	10.00	20.00	25.00	25.00	15.00	H 15.00
7N-AA	15.00	10.00	30.00	L 5.000	65.00	10.00	15.00	10.00	65.00
AG-AA	H 1.000	H 1.000	H 0.5000	N 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

ARENITOS FACIES B

A M O S T R A S

VARIÁVEL	JA0203B	JA0204	JA0266	JF0413A	JF0413I	JA0462A	JA0515A	JA0385A	JA0418D
LATITUDE	0.2736E 05	0.2737E 05	0.2729E 05	0.2758E 05	0.2758E 05	0.2887E 05	0.2592E 05	0.2736E 05	0.2783E 05
LONGITUD	0.1420E 06	0.1420E 06	0.1444E 06	0.1458E 06	0.1453E 06	0.1466E 06	0.1441E 06	0.1455E 06	0.1461E 06
UTM-ABC	0.4524E 06	0.4522E 06	0.3786E 06	0.3331E 06	0.3331E 06	0.3114E 06	0.3865E 06	0.3447E 06	0.3256E 06
UTM-ORD	0.9160E 07	0.9160E 07	0.9162E 07	0.9153E 07	0.9153E 07	0.9113E 07	0.9204E 07	0.9160E 07	0.9145E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	15.00	7.000	7.000	5.000	5.000	2.000	10.00	5.000
MG-S %	2.000	2.000	0.1500	1.500	2.000	2.000	1.500	0.7000	2.000
CA-S %	0.7000	0.7000	L 0.5000E-01	2.000	7.000	20.00	0.2000	1.000	2.000
TI-S %	G 1.000	G 1.000	G 1.000	0.7000	0.5000	0.5000	0.5000	0.7000	0.2000
MN-S	500.0	1500.	300.0	500.0	G 5000.	3000.	200.0	700.0	1000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	50.00	50.00	70.00	50.00	150.0	50.00	50.00	30.00
BA-S	5000.	3000.	300.0	G 5000.	3000.	3000.	3000.	2000.	1500.
BE-S	L 1.000	L 1.000	L 1.000	2.000	2.000	1.000	1.000	L 1.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	7.000	15.00	5.000	7.000	15.00	10.00	10.00	20.00	7.000
CR-S	150.0	200.0	100.0	100.0	100.0	100.0	70.00	100.0	50.00
CU-S	10.00	10.00	30.00	30.00	20.00	10.00	20.00	70.00	20.00
LA-S	70.00	200.0	50.00	50.00	100.0	50.00	20.00	50.00	70.00
MO-S	L 5.000	N 5.000	V 5.000	15.00	20.00	N 5.000	N 5.000	10.00	5.000
NB-S	20.00	30.00	30.00	20.00	20.00	L 10.00	15.00	20.00	10.00
NI-S	15.00	H 30.00	30.00	30.00	70.00	20.00	50.00	70.00	20.00
PB-S	30.00	70.00	30.00	50.00	100.0	15.00	50.00	150.0	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	H 15.00	H 50.00	H 50.00	7.000	7.000	15.00	10.00	15.00	10.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	150.0	100.0	100.0	150.0	200.0	N 100.0	200.0	100.0	100.0
V-S	70.00	300.0	70.00	70.00	70.00	50.00	50.00	200.0	50.00
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	300.0	70.00	30.00	50.00	30.00	50.00	30.00	30.00
ZN-S	L 200.0	L 200.0	L 200.0	L 200.0	200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	G 1000.	G 1000.	G 1000.	700.0	1000.	500.0	1000.	G 1000.	500.0
CU-AA	5.000	5.000	25.00	20.00	20.00	15.00	5.000	40.00	10.00
PB-AA	15.00	25.00	10.00	30.00	65.00	10.00	10.00	130.0	10.00
ZN-AA	15.00	10.00	20.00	20.00	110.0	30.00	10.00	40.00	20.00
AG-AA	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

ARENITOS FACIES R

A M O S T R A S

VARIÁVEL	JA0471A	JA0462B	JA0463I	JA0541C	JM0339C
LATITUDE	0.2799E 05	0.2887E 05	0.2878E 05	0.2678E 05	0.2759F 05
LONGITUD	0.1469E 06	0.1466E 06	0.1468F 06	0.1467E 06	0.1467E 06
UTM-ABC	0.3001E 06	0.3114E 06	0.3030F 06	0.3059E 06	0.3064E 06
UTM-ORD	0.9140E 07	0.9113E 07	0.9116F 07	0.9177E 07	0.9153E 07
M. C.	39.00	39.00	39.00	39.00	39.00
FF-S %	1.000	5.000	10.00	5.000	20.00
MG-S %	0.7000	2.000	3.000	1.000	0.7000
CA-S %	5.000	20.00	20.00	1.000	20.00
TI-S %	0.3000	0.3000	0.5000	0.5000	0.1500
MV-S	700.0	1500.	3000.	300.0	1500.
AG-S	V 0.5000	N 0.5000	H 1.000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00
R-S	10.00	150.0	200.0	50.00	10.00
RA-S	500.0	2000.	1000.	2000.	500.0
RF-S	L 1.000	1.000	1.000	1.000	1.500
RI-S	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	N 5.000	5.000	20.00	10.00	50.00
CR-S	50.00	100.0	150.0	70.00	20.00
CU-S	L 5.000	10.00	70.00	10.00	150.0
LA-S	20.00	30.00	50.00	50.00	50.00
MO-S	N 5.000	N 5.000	N 5.000	N 5.000	20.00
NB-S	10.00	10.00	10.00	15.00	10.00
NI-S	5.000	20.00	70.00	20.00	150.0
PB-S	10.00	10.00	30.00	20.00	500.0
SR-S	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	10.00	20.00	10.00	10.00
SN-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	100.0	200.0	N 100.0	300.0
V-S	20.00	50.00	100.0	100.0	50.00
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	50.00	50.00	30.00	50.00
ZN-S	N 200.0	N 200.0	L 200.0	N 200.0	200.0
ZR-S	100.0	200.0	150.0	500.0	50.00
CU-AA	5.000	15.00	35.00	10.00	90.00
PR-AA	5.000	5.000	10.00	L 5.000	180.0
ZN-AA	10.00	35.00	50.00	15.00	210.0
AO-AA	H 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

ARENITOS FACIES A E B

A M O S T R A S

VARIAVEL	JF0048	JF0015	JF0056	JF0038	JF0159B	JF0229	JF0253	JA0041	JF0264
LATITUDE	0.2603E 05	0.2657E 05	0.2644F 05	0.2643E 05	0.2650E 05	0.2573E 05	0.2568E 05	0.2564F 05	0.2559E 05
LONGITUD	0.1422E 06	0.1412E 06	0.1417E 06	0.1414F 06	0.1416E 06	0.1422E 06	0.1430E 06	0.1424E 06	0.1432E 06
UTM-ABC	0.4515E 06	0.4744E 06	0.4588E 06	0.4680E 06	0.4646E 06	0.4436E 06	0.4207E 06	0.4377E 06	0.4155E 06
UTM-ORD	0.9201E 07	0.9184E 07	0.9188F 07	0.9188E 07	0.9185E 07	0.9210F 07	0.9212E 07	0.9213F 07	0.9214E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	5.000	7.000	7.000	7.000	7.000	3.000	3.000	3.000	0.7000
MG-S %	0.7000	1.000	0.7000	0.7000	1.500	0.7000	1.500	1.500	0.2000
CA-S %	L 0.5000	0.1500	0.5000F-01	0.3000	3.000	0.3000	10.00	3.000	0.2000
TI-S %	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000	0.5000	0.7000	0.1000E 00
MN-S	200.0	500.0	200.0	700.0	700.0	100.0	1500.	700.0	200.0
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	50.00	20.00	30.00	50.00	70.00	30.00	70.00	50.00
BA-S	2000.	1500.	1500.	3000.	1500.	2000.	1500.	700.0	5000.
BF-S	1.500	1.500	2.000	L 1.000	3.000	1.500	L 1.000	1.500	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	7.000	10.00	7.000	5.000	5.000	5.000	5.000	L 5.000
CR-S	150.0	70.00	70.00	70.00	70.00	100.0	50.00	70.00	100.0
CU-S	7.000	30.00	20.00	30.00	7.000	5.000	7.000	5.000	7.000
LA-S	50.00	50.00	70.00	70.00	70.00	20.00	30.00	50.00	30.00
MO-S	L 5.000	7.000	7.000	N 5.000	N 5.000	L 5.000	7.000	N 5.000	N 5.000
NB-S	10.00	10.00	15.00	10.00	15.00	10.00	L 10.00	20.00	L 10.00
NI-S	20.00	30.00	30.00	30.00	30.00	20.00	30.00	30.00	15.00
PB-S	30.00	70.00	30.00	30.00	30.00	30.00	50.00	30.00	300.0
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10.00	H 20.00	H 15.00	H 10.00	H 10.00	15.00	7.000	H 10.00	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	L 100.0	N 100.0	N 100.0	N 100.0	200.0	100.0	200.0	300.0	200.0
V-S	70.00	300.0	150.0	150.0	70.00	70.00	50.00	70.00	70.00
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	70.00	100.0	30.00	50.00	20.00	30.00	100.0	L 10.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0
ZR-S	150.0	G 1000.	G 1000.	G 1000.	G 1000.	300.0	700.0	G 1000.	100.0
CU-AA	5.000	15.00	10.00	10.00	5.000	L 5.000	10.00	10.00	5.000
PB-AA	20.00	35.00	20.00	15.00	H 20.00	15.00	H 30.00	H 25.00	90.00
ZN-AA	10.00	30.00	20.00	15.00	15.00	10.00	10.00	30.00	40.00
AG-AA	V 0.5000	N 0.5000	V 0.5000	N 0.5000	H 1.000	H 0.5000	H 1.000	H 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

ARENITOS FACIES A E B

A M O S T R A S

VARIÁVEL	JA0087	JM0026	JF0337	JF0366	JF0359	JF0378	JA0154B	JA0173	JA0189
LATITUDE	0.2561E 05	0.2702E 05	0.2734E 05	0.2711E 05	0.2708E 05	0.2720E 05	0.2768E 05	0.2757E 05	0.2750E 05
LONGITUD	0.1429E 06	0.1425E 06	0.1414E 06	0.1411E 06	0.1411E 06	0.1410E 06	0.1414E 06	0.1415E 06	0.1419E 06
UTM-ABC	0.4238E 06	0.4370E 06	0.4682E 06	0.4786E 06	0.4793E 06	0.4824E 06	0.4699E 06	0.4672E 06	0.4531E 06
UTM-ORD	0.9214E 07	0.9170E 07	0.9161E 07	0.9168E 07	0.9169E 07	0.9165E 07	0.9150E 07	0.9154E 07	0.9156E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	3.000	5.000	5.000	5.000	10.00	5.000	10.00	15.00	10.00
MG-S %	1.500	0.1500	2.000	2.000	1.500	3.000	2.000	2.000	1.000
CA-S %	20.00	0.1500	1.000	3.000	1.000	3.000	10.00	1.000	0.7000
TI-S %	0.1500	0.7000	G 1.000	0.3000	0.3000	0.5000	G 1.000	0.7000	1.000
MN-S	G 5000.	100.0	1000.	700.0	700.0	500.0	1500.	300.0	300.0
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	15.00	10.00	20.00	50.00	50.00	100.0	20.00	100.0
BA-S	700.0	200.0	3000.	5000.	2000.	3000.	3000.	3000.	3000.
BE-S	L 1.000	L 1.000	5.000	2.000	2.000	3.000	1.000	3.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	7.000	5.000	50.00	20.00	10.00	10.00	20.00	20.00	7.000
CR-S	300.0	50.00	150.0	50.00	100.0	70.00	150.0	150.0	200.0
CU-S	7.000	10.00	10.00	5.000	20.00	10.00	20.00	30.00	15.00
LA-S	100.0	30.00	50.00	20.00	30.00	30.00	30.00	30.00	30.00
MO-S	N 5.000	L 5.000	L 5.000	N 5.000	15.00	L 5.000	L 5.000	L 5.000	10.00
NB-S	L 10.00	20.00	30.00	15.00	10.00	10.00	20.00	15.00	20.00
NI-S	30.00	L 5.000	150.0	30.00	70.00	30.00	50.00	100.0	H 20.00
PB-S	30.00	200.0	50.00	50.00	30.00	30.00	20.00	100.0	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	30.00	20.00	10.00	20.00	10.00	15.00	20.00	H 20.00
SN-S	N 10.00	V 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	300.0	L 100.0	200.0	150.0	100.0	100.0	150.0	100.0	150.0
V-S	70.00	70.00	100.0	70.00	100.0	100.0	70.00	150.0	300.0
W-S	N 50.00	V 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	200.0	100.0	20.00	50.00	15.00	70.00	20.00	20.00
ZN-S	N 200.0	200.0	200.0	L 200.0	200.0	L 200.0	L 200.0	300.0	L 200.0
ZR-S	150.0	1000.	G 1000.	1000.	1000.	700.0	1000.	200.0	G 1000.
CU-AA	15.00	L 5.000	5.000	5.000	10.00	5.000	15.00	15.00	5.000
PR-AA	H 30.00	10.00	20.00	25.00	25.00	15.00	H 15.00	35.00	20.00
ZN-AA	20.00	L 5.000	65.00	10.00	15.00	10.00	65.00	75.00	15.00
AG-AA	H 1.500	N 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.000	H 0.5000	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

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ARENITOS FAÇES A E B

A M O S T R A S

VARIÁVEL	JA0203B	JA0204	JA0227	JA0252	JA0255	JA0287	JF0413A	JF0413I	JA0462A
LATITUDE	0,2736E 05	0,2737E 05	0,2703E 05	0,2707E 05	0,2729E 05	0,2773E 05	0,2758E 05	0,2758E 05	0,2887E 05
LONGITUD	0,1420E 06	0,1420E 06	0,1408E 06	0,1444E 06	0,1444E 06	0,1451E 06	0,1450E 06	0,1453E 06	0,1456E 06
UTM-ABC	0,4524E 06	0,4522E 06	0,4874E 06	0,3774E 06	0,3785E 06	0,3567E 06	0,3331E 06	0,3331E 06	0,3114E 06
UTM-DRD	0,9160E 07	0,9160E 07	0,9170E 07	0,9159E 07	0,9162E 07	0,9148E 07	0,9153E 07	0,9153E 07	0,9113E 07
M. C.	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00
FE-S %	7,000	15,00	15,00	3,000	7,100	3,000	7,000	5,000	5,000
MG-S %	2,000	2,000	0,2000	0,3000	0,1500	0,1000E 00	1,500	2,000	2,000
CA-S %	0,7000	0,7000	1,500	0,1000E 00	0,5000E-01	0,5000E-01	2,000	7,000	20,00
TI-S %	G 1,000	G 1,000	G 1,000	G 1,000	G 1,000	G 1,000	0,7000	0,5000	0,5000
MN-S	500,0	1500,	1500,	500,0	300,0	200,0	500,0	G 5000,	3000,
AG-S	N 0,5000	N 0,5000	N 0,5000	N 0,5000	N 0,5000	N 0,5000	N 0,5000	N 0,5000	N 0,5000
AS-S	N 200,0	N 200,0	N 200,0	N 200,0	N 200,0	N 200,0	N 200,0	N 200,0	N 200,0
AU-S	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00
R-S	100,0	50,00	50,00	50,00	50,00	100,0	70,00	50,00	150,0
BA-S	5000,	3000,	700,0	3000,	300,0	500,0	G 5000,	3000,	3000,
BF-S	L 1,000	L 1,000	N 1,000	2,000	L 1,000	L 1,000	2,000	2,000	1,000
BI-S	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00
CO-S	N 20,00	N 20,00	N 20,00	N 20,00	N 20,00	N 20,00	N 20,00	N 20,00	N 20,00
CP-S	7,000	15,00	5,000	10,00	5,000	5,000	7,000	15,00	10,00
CR-S	150,0	200,0	300,0	70,00	100,0	100,0	100,0	100,0	100,0
CU-S	10,00	10,00	20,00	10,00	30,00	15,00	30,00	20,00	10,00
LA-S	70,00	200,0	30,00	70,00	50,00	50,00	50,00	100,0	50,00
MO-S	L 5,000	N 5,000	15,00	N 5,000	N 5,000	5,000	15,00	20,00	N 5,000
NB-S	20,00	30,00	30,00	20,00	30,00	30,00	20,00	20,00	L 10,00
NI-S	15,00	H 30,00	H 30,00	20,00	30,00	30,00	30,00	70,00	20,00
PB-S	30,00	70,00	100,0	20,00	30,00	30,00	50,00	100,0	15,00
SB-S	N 100,0	N 100,0	N 100,0	N 100,0	N 100,0	N 100,0	N 100,0	N 100,0	N 100,0
SP-S	N 15,00	H 50,00	H 10,00	H 10,00	H 50,00	N 20,00	7,000	7,000	15,00
SN-S	N 10,00	N 10,00	H 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00	N 10,00
SR-S	150,0	100,0	L 100,0	150,0	100,0	100,0	150,0	200,0	N 100,0
V-S	70,00	300,0	300,0	70,00	70,00	100,0	70,00	70,00	50,00
W-S	N 50,00	N 50,00	N 50,00	N 50,00	N 50,00	N 50,00	N 50,00	N 50,00	N 50,00
Y-S	50,00	300,0	20,00	70,00	70,00	30,00	30,00	50,00	30,00
ZN-S	L 200,0	L 200,0	L 200,0	L 200,0	L 200,0	L 200,0	L 200,0	200,0	N 200,0
ZR-S	G 1000,	G 1000,	G 1000,	G 1000,	G 1000,	G 1000,	700,0	1000,	500,0
CU-AA	5,000	5,000	5,000	5,000	25,00	10,00	20,00	20,00	15,00
PR-AA	15,00	25,00	10,00	30,00	10,00	15,00	30,00	65,00	10,00
ZN-AA	15,00	10,00	10,00	10,00	20,00	5,000	20,00	110,0	30,00
AG-AA	H 0,5000	H 0,5000	H 0,5000	H 0,5000	H 0,5000	H 0,5000	H 0,5000	H 1,000	N 0,5000
CO-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0
NI-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0
RI-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0
CD-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0
TE-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0
AU-AA	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0	B 0,0

ARENITOS FACIES A E B

A M O S T R A S

VARIÁVEL	JA0515A	JA0385A	JA0418D	JA0471A	JA0452B	JA0463L	JA0541C	JM0339C	JF0444
LATITUDE	0.2592E 05	0.2736E 05	0.2783E 05	0.2799E 05	0.2887E 05	0.2878E 05	0.2678E 05	0.2759E 05	0.2732E 05
LONGITUD	0.1441E 06	0.1455E 06	0.1461E 06	0.1467E 06	0.1455E 05	0.1458E 06	0.1467E 06	0.1467E 06	0.1457E 06
UTM-ABC	0.3355E 06	0.3447E 06	0.3256E 06	0.3071E 06	0.3114E 05	0.3039E 06	0.3059E 06	0.3064E 06	0.3075E 06
UTM-ORD	0.9204E 07	0.9160E 07	0.9145E 07	0.9140E 07	0.9113E 07	0.9116E 07	0.9177E 07	0.9153E 07	0.9161E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	2.000	10.00	5.000	1.000	5.000	10.00	5.000	20.00	3.000
MG-S %	1.500	0.7000	2.000	0.7000	2.000	3.000	1.000	0.7000	1.000
CA-S %	0.2000	1.000	2.000	5.000	20.00	20.00	1.000	20.00	7.000
TI-S %	0.5000	0.7000	0.2000	0.3000	0.3000	0.5000	0.5000	0.1500	1.000
MN-S	200.0	700.0	1000.	700.0	1500.	3000.	300.0	1500.	1000.
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	H 1.000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	30.00	10.00	150.0	200.0	50.00	10.00	50.00
BA-S	3000.	2000.	1500.	500.0	2000.	1000.	2000.	500.0	700.0
BE-S	1.000	L 1.000	2.000	L 1.000	1.000	1.000	1.000	1.500	L 1.000
BI-S	N 10.00	N 10.00	L 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	20.00	7.000	N 5.000	5.000	20.00	10.00	50.00	7.000
CR-S	70.00	100.0	50.00	50.00	100.0	150.0	70.00	20.00	100.0
CU-S	20.00	70.00	20.00	L 5.000	10.00	70.00	10.00	150.0	20.00
LA-S	20.00	50.00	70.00	20.00	30.00	50.00	50.00	50.00	150.0
MO-S	N 5.000	10.00	5.000	N 5.000	N 5.000	N 5.000	N 5.000	20.00	L 5.000
NB-S	15.00	20.00	10.00	10.00	10.00	10.00	15.00	10.00	15.00
NI-S	50.00	70.00	20.00	5.000	20.00	70.00	20.00	150.0	15.00
PR-S	50.00	150.0	20.00	10.00	10.00	30.00	20.00	500.0	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10.00	15.00	10.00	5.000	10.00	20.00	10.00	10.00	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	100.0	100.0	100.0	100.0	200.0	N 100.0	300.0	N 100.0
V-S	50.00	200.0	50.00	20.00	50.00	100.0	100.0	50.00	100.0
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	30.00	30.00	10.00	50.00	50.00	30.00	50.00	50.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	L 200.0	N 200.0	200.0	N 200.0
ZR-S	1000.	G 1000.	500.0	100.0	200.0	150.0	500.0	50.00	G 1000.
CU-AA	5.000	40.00	15.00	5.000	15.00	35.00	10.00	90.00	10.00
PB-AA	10.00	130.0	10.00	5.000	5.000	10.00	L 5.000	180.0	5.000
ZN-AA	10.00	40.00	20.00	10.00	35.00	50.00	15.00	210.0	20.00
AG-AA	V 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

## ARENITOS FACIES A E B

## A M O S T R A S

VARIAVEL	JF0590
LATITUDE	0.2619F 05
LONGITUD	0.1461E 06
UTM-ABC	0.3249F 06
UTM-OPD	0.9196E 07
M, C.	39.00
FF-S %	1.500
MG-S %	0.1000E 00
CA-S %	0.1000E 00
TI-S %	1.000
MN-S	200.0
AG-S	N 0.5000
AS-S	N 200.0
AU-S	N 10.00
B-S	50.00
BA-S	700.0
BE-S	L 1.000
BI-S	N 10.00
CD-S	N 20.00
CO-S	5.000
CR-S	70.00
CU-S	20.00
LA-S	100.0
MO-S	5.000
NR-S	20.00
NI-S	15.00
PR-S	20.00
SB-S	N 100.0
SC-S	10.00
SN-S	N 10.00
SR-S	200.0
V-S	50.00
W-S	N 50.00
Y-S	30.00
ZN-S	N 200.0
ZR-S	G 1000.
CU-AA	10.00
PR-AA	5.000
ZN-AA	10.00
AG-AA	N 0.5000
CO-AA	B 0.0
NI-AA	B 0.0
BI-AA	B 0.0
CD-AA	B 0.0
TE-AA	B 0.0
AU-AA	B 0.0

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JF0071C	JF0065	JF0026A	JF0213C	JA0099	JF0282A	JA0012B	JA0020	JA0047
LATITUDE	0.2612E 05	0.2651F 05	0.2660E 05	0.2681F 05	0.2553E 05	0.2573E 05	0.2561F 05	0.2581E 05	0.2569E 05
LONGITUD	0.1420F 06	0.1418E 06	0.1409F 06	0.1408F 06	0.1429F 06	0.1432E 06	0.1406F 06	0.1422E 06	0.1427E 06
UTM-ABC	0.4496E 06	0.4570E 06	0.4842E 06	0.4882E 06	0.4224E 06	0.4138E 06	0.4925E 06	0.4459E 06	0.4303E 06
UTM-ORD	0.9198E 07	0.9186F 07	0.9183E 07	0.9177E 07	0.9216E 07	0.9210F 07	0.9214F 07	0.9208E 07	0.9211E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	2.000	20.00	5.000	1.500	3.000	1.000	7.000	20.00	7.000
MG-S %	1.500	1.000	0.5000	1.500	1.500	1.500	0.5000	1.000	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.5000E-01	0.1000E-01	0.1500	0.1000E 00	0.5000E-01	0.1000E 00	0.1500	0.5000E-01
MN-S	1500.	G 5000.	2000.	3000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.
AG-S	N 0.5000	7.000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	2.000	3.000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	N 10.00	N 10.00	100.0	20.00	N 10.00	N 10.00	20.00	L 10.00
BA-S	700.0	300.0	150.0	700.0	200.0	70.00	1000.	G 5000.	3000.
BE-S	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	30.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	50.00	10.00	7.000	7.000	L 5.000	5.000	30.00	10.00
CR-S	L 10.00	N 10.00	30.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	10.00
CU-S	50.00	300.0	70.00	100.0	30.00	150.0	20.00	150.0	500.0
LA-S	L 20.00	N 20.00	N 20.00	L 20.00	L 20.00	N 20.00	L 20.00	L 20.00	N 20.00
MO-S	15.00	150.0	50.00	10.00	30.00	10.00	50.00	30.00	20.00
NB-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	L 10.00
NI-S	15.00	50.00	15.00	20.00	10.00	7.000	20.00	20.00	30.00
PB-S	30.00	500.0	500.0	30.00	200.0	70.00	70.00	300.0	700.0
SE-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	3000.	500.0	300.0	3000.	1000.	700.0	300.0	2000.	500.0
V-S	50.00	70.00	50.00	70.00	70.00	50.00	100.0	50.00	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	V 10.00	10.00	V 10.00	10.00	10.00	N 10.00	20.00	15.00	N 10.00
ZN-S	500.0	2000.	N 200.0	L 200.0	1500.	200.0	700.0	1000.	1000.
ZR-S	20.00	10.00	10.00	70.00	L 10.00	N 10.00	30.00	L 10.00	30.00
S102 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 R. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	0.7000	0.8000	0.7000	0.9000	1.000	1.400	1.600	1.300	0.9000
CA0-Q %	49.90	46.10	52.80	48.40	53.20	53.50	51.60	46.30	39.90
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
X20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
T102-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	0.7000E-01	0.1300	0.8000E-01	0.1200	0.2300	0.5000E-01	0.2500	0.1600	0.2800
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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CALÇAPIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JF0071C	JF0065	JF0026A	JF0213C	JA0098	JF0282A	JA0012B	JA0020	JA0047
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
YN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDGY	42.10	40.10	42.90	41.70	42.70	43.10	41.70	39.60	33.20
MAT.VCL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	1.700	7.800	2.500	1.500	2.000	1.000	3.800	9.700	3.700
R.INSOL.	5.100	4.700	0.7000	6.900	0.7000	1.000	0.9000	1.800	21.90
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	35.00	400.0	65.00	55.00	35.00	130.0	20.00	95.00	410.0
PB-AA	H 50.00	170.0	150.0	H 55.00	95.00	80.00	75.00	160.0	200.0
ZN-AA	270.0	G 1000.	10.00	120.0	930.0	170.0	500.0	650.0	490.0
AG-AA	H 3.500	H 4.000	H 3.500	H 3.500	H 3.500	H 4.000	H 3.500	H 3.000	H 3.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FI-INS	700.0	170.0	800.0	700.0	1400.	300.0	375.0	450.0	325.0



S E A G PROJETO = SANTANA

CENTRO DE CUSTO = 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JF0326B	JA0144A	JF0339	JM0006	JM0310	JM0011	JF0339A	JF0363	JF0377A
LATITUDE	0.2660E 05	0.2763F 05	0.2733E 05	0.2723E 05	0.2728E 05	0.2727E 05	0.2733F 05	0.2733E 05	0.2719E 05
LONGITUD	0.1409E 06	0.1414E 06	0.1412E 06	0.1409E 06	0.1412E 06	0.1410E 06	0.1412E 06	0.1410E 06	0.1410E 06
UTM-ABC	0.4842E 06	0.4702E 06	0.4758E 06	0.4838E 06	0.4827E 06	0.4820E 06	0.4758E 06	0.4814E 06	0.4826E 06
UTM-ORD	0.9183E 07	0.9152E 07	0.9161E 07	0.9164E 07	0.9153E 07	0.9163E 07	0.9161E 07	0.9161E 07	0.9165E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	20.00	2.000	20.00	2.000	5.000	2.000	0.7000	5.000	1.500
MG-S %	1.000	1.500	1.500	1.500	1.500	1.000	1.500	1.000	1.500
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.3000E-02	0.2000	0.1000E 00	0.3000E-01	0.1000E 00	0.7000E-01	0.7000E-01	0.7000E-01	0.7000E-01
MN-S	G 5000.	G 5000.	G 5000.	5000.	5000.	G 5000.	3000.	G 5000.	G 5000.
AG-S	V 0.5000	N 0.5000	5.000	N 0.5000	0.7000	N 0.5000	N 0.5000	N 0.5000	0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AH-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	10.00	100.0	L 10.00	50.00	N 10.00	150.0	10.00	L 10.00
BA-S	30.00	300.0	700.0	G 5000.	G 5000.	300.0	700.0	2000.	G 5000.
BE-S	N 1.000	L 1.000	L 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00
CE-S	5.000	7.000	20.00	10.00	50.00	15.00	N 5.000	10.00	7.000
CF-S	N 10.00	50.00	20.00	20.00	50.00	30.00	30.00	30.00	20.00
CG-S	70.00	50.00	700.0	30.00	50.00	150.0	50.00	100.0	30.00
CH-S	N 20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
CI-S	50.00	7.000	50.00	50.00	20.00	L 5.000	L 5.000	15.00	15.00
CJ-S	N 10.00	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	L 10.00	L 10.00	L 10.00
CK-S	7.000	15.00	30.00	20.00	30.00	15.00	10.00	30.00	20.00
CL-S	1000.	200.0	1000.	100.0	30.00	100.0	20.00	150.0	150.0
CM-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
CN-S	N 5.000	5.000	L 5.000	N 5.000	L 5.000	N 5.000	N 5.000	L 5.000	N 5.000
CO-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CP-S	500.0	700.0	1000.	700.0	2000.	300.0	2000.	500.0	1000.
CQ-S	50.00	100.0	100.0	100.0	70.00	100.0	50.00	50.00	150.0
CR-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
CS-S	10.00	10.00	10.00	L 10.00	10.00	20.00	10.00	10.00	10.00
CT-S	N 200.0	500.0	1500.	500.0	500.0	300.0	300.0	1000.	300.0
CU-S	100.0	100.0	20.00	L 10.00	100.0	50.00	50.00	30.00	30.00
CV-S	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CW-S	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CX-S	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CY-S	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	1.200	1.100	1.300	0.8000	1.200	1.900
CAO-Q %	B 0.0	B 0.0	B 0.0	51.10	49.50	51.10	50.30	50.60	48.30
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
T102-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	0.5000E-01	0.1000E 00	0.8000E-01	0.5000E-01	0.5000E-01	0.1000E 00
MNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

CALCARIOS LAMINADOS

A M O S T R A S

VARIABLE	JF0026R	JA0144A	JF0339	JM0006	JM0010	JM0011	JF0339A	JF0363	JF0377A
MND-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S402-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	B 0.0	B 0.0	B 0.0	41.40	41.10	41.50	42.40	41.30	40.90
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P203-Q %	B 0.0	B 0.0	B 0.0	1.200	2.900	1.900	1.100	3.400	1.900
R.INSCL.	B 0.0	B 0.0	B 0.0	3.300	5.800	2.700	4.300	3.100	5.500
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	35.00	45.00	270.0	25.00	35.00	110.0	35.00	95.00	35.00
PB-AA	320.0	95.00	170.0	70.00	50.00	85.00	65.00	80.00	75.00
7N-AA	35.00	190.0	760.0	280.0	280.0	280.0	180.0	550.0	250.0
AG-AA	H 3.000	H 3.500	H 3.500	H 4.000	H 3.500	H 4.000	H 4.000	H 3.500	H 3.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	L 0.1000E-01	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SF-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
E-INS	1700.	B 0.0	B 0.0	150.0	500.0	120.0	700.0	275.0	800.0





S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0157	JA0168B	JA0182	JA0183	JA0331A	JF0389F	JF0390D	JA0267B	JA0331B
LATITUDE	0.2769E 05	0.2737E 05	0.2745E 05	0.2745E 05	0.2781E 05	0.2776E 05	0.2777E 05	0.2731E 05	0.2755E 05
LONGITUD	0.1414E 06	0.1414E 06	0.1419E 06	0.1419E 06	0.1455E 06	0.1448E 06	0.1449E 06	0.1443E 06	0.1443E 06
UTM-ABC	0.4588E 06	0.4700E 06	0.4526E 06	0.4533E 06	0.3402E 06	0.3646E 06	0.3634E 06	0.3793E 06	0.3802E 06
UTM-ORD	0.9150E 07	0.9160E 07	0.9157E 07	0.9157E 07	0.9146E 07	0.9148E 07	0.9147E 07	0.9161E 07	0.9154E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	20.00	10.00	5.000	3.000	3.000	7.000	7.000	3.000	0.7000
MG-S %	1.000	1.500	5.000	1.000	0.5000	2.000	2.000	1.000	0.3000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.5000	0.5000E-01	0.1000E 00	0.5000E-01	0.3000	0.3000	0.5000E-01	0.2000E-01
MN-S	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	5000.	1000.	G 5000.
AG-S	N 0.5000	N 0.5000	0.7000	2.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	20.00	70.00	L 10.00	N 10.00	100.0	200.0	L 10.00	N 10.00
BA-S	1000.	2000.	700.0	G 5000.	1000.	G 5000.	G 5000.	2000.	700.0
BE-S	N 1.000	2.000	N 1.000	N 1.000	1.000	L 1.000	L 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	100.0	30.00	10.00	100.0	5.000	15.00	10.00	5.000	L 5.000
CR-S	50.00	200.0	30.00	50.00	10.00	200.0	150.0	20.00	10.00
CU-S	200.0	50.00	100.0	200.0	10.00	70.00	70.00	70.00	7.000
LA-S	20.00	100.0	20.00	20.00	L 20.00	70.00	50.00	20.00	20.00
MO-S	200.0	15.00	70.00	20.00	15.00	20.00	15.00	300.0	L 5.000
NB-S	L 10.00	10.00	L 10.00	L 10.00	L 10.00	10.00	L 10.00	N 10.00	N 10.00
NI-S	50.00	100.0	30.00	30.00	10.00	100.0	70.00	30.00	5.000
PB-S	300.0	50.00	100.0	500.0	70.00	70.00	50.00	10.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	L 5.000	20.00	N 5.000	L 5.000	N 5.000	15.00	15.00	L 5.000	L 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	300.0	300.0	500.0	200.0	2000.	3000.	500.0	200.0
V-S	200.0	150.0	100.0	100.0	50.00	1500.	700.0	500.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	70.00	L 10.00	10.00	10.00	70.00	50.00	10.00	L 10.00
ZN-S	3000.	L 200.0	500.0	500.0	500.0	200.0	200.0	L 200.0	L 200.0
ZR-S	30.00	150.0	20.00	50.00	10.00	150.0	150.0	10.00	10.00
S102 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	0.6000	1.400	3.000	1.100	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAD-Q %	48.10	38.60	42.20	50.70	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
T102-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	0.4900	0.2300	0.8000E-01	0.5000E-01	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTAVA

CENTRO DE CUSTO - 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0157	JA0168B	JA0182	JA0183	JA0331A	JF03P9F	JF0390D	JA0267B	JA0331B
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	39.90	34.80	36.40	41.10	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	8.100	8.700	2.000	2.200	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOL.	2.700	15.60	15.80	4.000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	100.0	25.00	45.00	170.0	25.00	40.00	45.00	60.00	10.00
PR-AA	100.0	H 45.00	65.00	160.0	90.00	55.00	55.00	H 55.00	90.00
ZN-AA	G 1000.0	40.00	300.0	280.0	150.0	70.00	50.00	20.00	90.00
AG-AA	H 3.000	H 2.500	H 2.500	H 4.000	H 4.500	H 3.000	H 3.000	H 3.500	H 4.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MFT PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	500.0	450.0	225.0	150.0	B 0.0	B 0.0	B 0.0	225.0	80.00

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## CALCARICS LAMINADOS

## A M O S T R A S

VARIÁVEL	JA0157	JA0168B	JA0182	JA0183	JA0331A	JF0389F	JF0390D	JA0267B	JA0331B
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	S 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P DRG	B 0.0	B 0.0	B 0.0	R 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B C.0	B 0.0

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CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0431	JA0445	JA0464	JA0525B	JA0570	JA0353	JA0432A	JA0432B	JA0446
LATITUDE	0.2820F 05	0.2821F 05	0.2801F 05	0.2665F 05	0.2644F 05	0.2704F 05	0.2810E 05	0.2810E 05	0.2819F 05
LONGITUD	0.1463E 06	0.1465E 06	0.1468E 06	0.1455E 06	0.1463E 06	0.1457E 06	0.1461E 06	0.1461E 06	0.1465E 06
UTM-ABC	0.3191E 06	0.3125F 06	0.3050F 06	0.3116E 06	0.3177F 06	0.3373E 06	0.3267F 06	0.3267E 06	0.3129F 06
UTM-ORD	0.9134E 07	0.9133E 07	0.9140F 07	0.9182E 07	0.9188F 07	0.9151F 07	0.9137E 07	0.9137E 07	0.9134E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	1.500	2.000	5.000	1.500	2.000	5.000	1.500	0.5000
MG-S %	2.000	0.5000	1.000	1.500	1.000	1.000	1.000	1.000	0.3000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.2000F-01	0.1000F 00	0.1500	0.5000F-01	0.1000E 00	0.1000F 00	0.7000F-01	0.5000E-02
MN-S	G 5000.	5000.	1500.	5000.	5000.	3000.	5000.	5000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	L 10.00	10.00	20.00	L 10.00	10.00	20.00	10.00	N 10.00
BA-S	500.0	300.0	700.0	500.0	200.0	500.0	300.0	300.0	500.0
BE-S	L 1.000	L 1.000	L 1.000	1.000	L 1.000	N 1.000	L 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	7.000	10.00	10.00	7.000	10.00	15.00	5.000	N 5.000
CR-S	70.00	20.00	70.00	100.0	50.00	50.00	50.00	50.00	10.00
CU-S	70.00	50.00	20.00	70.00	20.00	70.00	100.0	50.00	50.00
LA-S	20.00	20.00	20.00	50.00	20.00	20.00	50.00	20.00	N 20.00
MO-S	7.000	5.000	L 5.000	L 5.000	7.000	70.00	30.00	5.000	5.000
NB-S	10.00	L 10.00	10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	20.00	10.00	20.00	50.00	15.00	50.00	20.00	15.00	5.000
PA-S	100.0	200.0	20.00	30.00	30.00	20.00	500.0	300.0	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	N 5.000	5.000	10.00	N 5.000	5.000	5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	200.0	700.0	500.0	200.0	200.0	200.0	200.0	100.0
V-S	50.00	30.00	50.00	50.00	100.0	200.0	150.0	100.0	20.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	15.00	L 10.00	10.00	30.00	10.00	20.00	20.00	15.00	L 10.00
ZN-S	300.0	N 200.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	N 200.0
ZR-S	50.00	10.00	100.0	100.0	20.00	50.00	100.0	20.00	150.0
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FeO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIAVEL	JA0431	JA0445	JA0464	JA0525B	JA0570	JA0363	JA0432A	JA0432B	JA0446
MND-Q %	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NR205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SND2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
L120-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FCG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	95.00	35.00	20.00	60.00	25.00	60.00	140.00	40.00	50.00
PB-AA	60.00	100.00	H 35.00	H 35.00	H 50.00	H 40.00	100.00	130.00	70.00
7N-AA	300.00	45.00	130.00	55.00	20.00	25.00	45.00	210.00	100.00
AG-AA	H 2.000	H 3.000	H 2.000	H 2.000	H 2.500	H 2.500	H 2.500	H 2.500	H 3.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEINS	300.00	90.00	600.00	500.00	350.00	300.00	350.00	275.00	500.00



S E A G PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIAVEL	JA0447	JA0463I	JA0485	JM0300B	JM0350	JA0483	JA0484	JA0486A	JA0487
LATITUDE	0.2913E 05	0.2878E 05	0.2820E 05	0.2793E 05	0.2639E 05	0.2821E 05	0.2820E 05	0.2819E 05	0.2818E 05
LONGITUD	0.1461E 06	0.1468E 06	0.1464E 06	0.1466E 06	0.1452E 05	0.1454E 06	0.1464E 06	0.1464E 06	0.1454E 06
UTM-ABC	0.3250E 06	0.3030E 06	0.3174E 06	0.3104E 06	0.3224E 06	0.3170E 06	0.3173E 06	0.3173E 06	0.3174E 06
UTM-ORD	0.9136E 07	0.9116E 07	0.9134E 07	0.9154E 07	0.9180E 07	0.9134E 07	0.9134E 07	0.9134E 07	0.9134E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	0.5000	0.7000	5.000	2.000	0.5000	0.2000	0.3000	10.00	3.000
MG-S %	0.3000	1.000	10.00	1.500	0.2000	0.3000	0.3000	1.500	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	20.00	7.000	G 20.00
TI-S %	0.1500E-01	0.5000E-01	0.5000E-01	0.1000E 00	0.1000E-01	0.7000E-01	0.3000E-01	0.7000	0.7000E-01
MN-S	G 5000.	5000.	G 5000.	G 5000.	100.0	G 5000.	5000.	1000.	G 5000.
AG-S	N 0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	10.00	10.00	20.00	L 10.00	N 10.00	N 10.00	200.0	70.00
BA-S	50.00	300.0	500.0	200.0	70.00	100.0	150.0	500.0	300.0
RE-S	N 1.000	L 1.000	L 1.000	1.000	N 1.000	1.000	L 1.000	5.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	L 20.00	L 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	N 5.000	7.000	10.00	7.000	N 5.000	L 5.000	N 5.000	50.00	50.00
CR-S	10.00	20.00	10.00	70.00	30.00	10.00	10.00	150.0	10.00
CU-S	7.000	50.00	30.00	70.00	5.000	10.00	20.00	100.0	20.00
LA-S	N 20.00	20.00	20.00	20.00	N 20.00	50.00	20.00	150.0	70.00
MO-S	5.000	N 5.000	N 5.000	20.00	N 5.000	5.000	L 5.000	H 5.000	10.00
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	30.00	L 10.00
NI-S	N 5.000	5.000	10.00	20.00	5.000	5.000	L 5.000	150.0	5.000
PB-S	50.00	300.0	30.00	20.00	10.00	30.00	100.0	30.00	70.00
SP-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	5.000	N 5.000	N 5.000	N 5.000	20.00	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	200.0	200.0	N 100.0	150.0	100.0	200.0	700.0
V-S	20.00	100.0	50.00	100.0	10.00	30.00	50.00	300.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	I 10.00	10.00	10.00	30.00	10.00	10.00	L 10.00	150.0	15.00
ZN-S	N 200.0	200.0	300.0	N 200.0	N 200.0	N 200.0	N 200.0	700.0	N 200.0
ZR-S	10.00	15.00	15.00	30.00	10.00	30.00	30.00	200.0	20.00
SI02 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1.200	1.100	44.80	3.200
SI02 I. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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CALCARIOS LAMINADOS

A M O S T R A S

VARIAVEL	JA0447	JA0463I	JA0485	JM0300B	JM0360	JA0483	JA0484	JA0486A	JA0487
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MV-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SND2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	41.70	42.10	14.80	41.40
MAT_VCL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	15.00	25.00	25.00	55.00	70.00	15.00	20.00	75.00	15.00
PR-AA	65.00	120.0	45.00	40.00	50.00	55.00	90.00	20.00	65.00
ZN-AA	45.00	270.0	570.0	140.0	10.00	80.00	95.00	480.0	150.0
AG-AA	H 3.500	H 3.000	H 2.000	H 2.500	H 3.000	H 4.000	H 3.500	H 1.000	H 3.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	50.00	300.0	700.0	600.0	130.0	60.00	70.00	1600.	900.0



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CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0519A	JA0572A	JF0447	JA0448	JA0450C	JA0455	JA0572B	JA0450A	JA0488
LATITUDE	0.2550E 05	0.2644E 05	0.2731F 05	0.2814E 05	0.2809F 05	0.2800F 05	0.2644E 05	0.2809E 05	0.2818E 05
LONGITUD	0.1455F 06	0.1464E 06	0.1467E 06	0.1451E 05	0.1461E 06	0.1468E 06	0.1464E 06	0.1461E 06	0.1454E 06
UTM-ABC	0.3115E 06	0.3167E 06	0.3067E 06	0.3253E 06	0.3262E 06	0.3052E 06	0.3167E 06	0.3262E 06	0.3175E 06
UTM-ORD	0.9186E 07	0.9188E 07	0.9161E 07	0.9136E 07	0.9137E 07	0.9140E 07	0.9188E 07	0.9137E 07	0.9135E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	3.000	1.500	2.000	2.000	1.000	0.5000	2.000	1.500
MG-S %	0.7000	1.000	1.000	3.000	0.5000	0.7000	0.5000	0.2000	0.7000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.1000E 00	0.1000E 00	0.1000E-01	0.5000E-01	0.5000E-01	0.2000E-01	0.1000E-01	0.5000E-01
MV-S	G 5000.	5000.	G 5000.	G 5000.	5000.	5000.	5000.	G 5000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	H 1.000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	L 10.00	L 10.00	L 10.00	10.00	10.00	N 10.00	L 10.00	N 10.00
BA-S	G 5000.	500.0	G 5000.	50.00	500.0	5000.	50.00	500.0	2000.
BE-S	1.500	1.000	2.000	L 1.000	L 1.000	L 1.000	N 1.000	N 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	30.00	5.000	7.000	5.000	5.000	10.00	N 5.000	5.000	15.00
CR-S	15.00	20.00	20.00	20.00	20.00	20.00	20.00	N 10.00	N 10.00
CU-S	30.00	20.00	30.00	10.00	10.00	50.00	5.000	5.000	30.00
LA-S	70.00	50.00	50.00	N 20.00	30.00	20.00	20.00	20.00	20.00
MO-S	10.00	L 5.000	5.000	N 5.000	10.00	15.00	N 5.000	5.000	15.00
NB-S	10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	N 10.00
NI-S	20.00	15.00	15.00	N 5.000	10.00	15.00	5.000	5.000	10.00
PB-S	150.0	50.00	200.0	150.0	150.0	100.0	10.00	70.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	300.0	300.0	300.0	200.0	100.0	100.0	300.0	200.0	700.0
V-S	100.0	70.00	100.0	20.00	50.00	50.00	50.00	50.00	50.00
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	L 10.00	10.00	L 10.00	20.00	10.00	10.00	10.00	10.00
ZN-S	N 200.0	N 200.0	N 200.0	200.0	N 200.0	500.0	N 200.0	N 200.0	N 200.0
ZR-S	30.00	30.00	20.00	10.00	20.00	20.00	50.00	L 10.00	20.00
SI02 T.%	4.300	4.900	13.90	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	1.200	0.5000	0.2000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	2.100	2.500	2.200	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	47.80	49.10	44.10	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	L 0.1000E 00	L 0.1000E 00	L 0.1000E 00	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	2.400	2.300	0.9000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	0.3000	0.2000	L 0.1000E 00	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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CALCARIOS LAMINADOS

A M O S T R A S

VARIAVEL	JA0519A	JA0572A	JF0447	JA0448	JA0450C	JA0466	JA0572B	JA0450A	JA0488
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	L 0.1000E-01	L 0.1000F-01	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG %	39.50	40.60	36.70	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSCL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	30.00	15.00	25.00	15.00	25.00	40.00	10.00	10.00	20.00
PB-AA	70.00	50.00	70.00	100.0	110.0	100.0	10.00	40.00	15.00
ZN-AA	230.0	65.00	140.0	130.0	15.00	500.0	20.00	40.00	60.00
AG-AA	H 3.000	H 3.000	H 3.500	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FI-INS	450.0	350.0	140.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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 CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0519B	JM0234	JM0343	JF0071D	JF0027	JF0045	JF0254	JF0272	JF0192
LATITUDE	0.2650E 05	0.2754F 05	0.2776F 05	0.2612F 05	0.2561F 05	0.2648E 05	0.2566E 05	0.2571E 05	0.2648F 05
LONGITUD	0.1465E 06	0.1460F 06	0.1465F 06	0.1427F 06	0.1409E 06	0.1415F 06	0.1430E 06	0.1431E 06	0.1407E 06
UTM-ABC	0.3115E 06	0.3293F 06	0.3139E 06	0.4496E 06	0.4842E 06	0.4674E 06	0.4208E 06	0.4153F 06	0.4921E 06
UTM-ORD	0.9186E 07	0.9154F 07	0.9147E 07	0.9192F 07	0.9183E 07	0.9187E 07	0.9212E 07	0.9210E 07	0.9187F 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	2.000	5.000	1.000	3.000	2.000	0.5000	1.000	5.000
MG-S %	1.500	0.7000	0.5000	1.500	1.500	1.000	1.000	1.500	1.500
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.3000E-01	0.5000E-01	0.5000E-01	0.2000E-01	0.3000E-01	0.5000E-01	0.1000E-01	0.1000E-01	0.1500
MN-S	G 5000.	1500.	5000.	5000.	G 5000.	G 5000.	5000.	5000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	L 10.00	L 10.00	10.00	10.00	20.00	N 10.00	N 10.00	20.00
BA-S	1500.	150.0	700.0	2000.	50.00	70.00	20.00	20.00	500.0
BE-S	L 1.000	L 1.000	N 1.000	N 1.000	N 1.000	L 1.000	N 1.000	N 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	10.00	10.00	20.00	15.00	5.000	5.000	5.000	700.0
CR-S	20.00	50.00	20.00	50.00	20.00	50.00	10.00	10.00	70.00
CU-S	70.00	30.00	100.0	50.00	50.00	100.0	20.00	150.0	70.00
LA-S	50.00	20.00	20.00	N 20.00	70.00	20.00	N 20.00	N 20.00	20.00
MO-S	20.00	70.00	70.00	30.00	30.00	10.00	15.00	10.00	50.00
NB-S	N 10.00	N 10.00	L 10.00	N 10.00	L 10.00	L 10.00	N 10.00	N 10.00	10.00
NI-S	50.00	15.00	15.00	15.00	15.00	15.00	15.00	5.000	70.00
PB-S	100.0	20.00	500.0	100.0	50.00	100.0	10.00	300.0	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	5.000	N 5.000	N 5.000	5.000	5.000	N 5.000	N 5.000	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	300.0	100.0	500.0	500.0	500.0	200.0	1000.	1000.
V-S	100.0	50.00	150.0	30.00	50.00	100.0	100.0	20.00	30.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	10.00	20.00	L 10.00	50.00	20.00	L 10.00	L 10.00	10.00
ZN-S	200.0	N 200.0	300.0	200.0	N 200.0	200.0	N 200.0	200.0	500.0
ZR-S	30.00	50.00	10.00	10.00	20.00	15.00	10.00	10.00	100.0
S102 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 R.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TIO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FM-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JAO519B	JM0234	JM0343	JF00710	JF0027	JF0045	JF0254	JF0272	JF0192
MNO-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
REQ-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VCL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	50.00	25.00	160.0	50.00	40.00	150.0	25.00	300.0	55.00
PR-AA	55.00	10.00	270.0	35.00	20.00	30.00	10.00	150.0	15.00
ZN-AA	590.0	15.00	630.0	660.0	90.00	280.0	20.00	310.0	550.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FR-INS	B 0.0	B 0.0	B 0.0	475.0	425.0	325.0	225.0	190.0	1100.0





CALCARTOS LAMINADOS

A M O S T R A S

VARIAVEL	JA0022	JA0023	JA0049	JA0069B	JA0030B	JA0083
LATITUDE	0.2579E 05	0.2579E 05	0.2567E 05	0.2562E 05	0.2567E 05	0.2564E 05
LONGITUD	0.1422E 06	0.1422E 06	0.1427E 06	0.1428E 06	0.1429E 06	0.1429E 06
UTM-ABC	0.4458E 06	0.4458E 06	0.4306E 06	0.4262E 06	0.4220E 06	0.4226E 06
UTM-ORD	0.9208E 07	0.9208E 07	0.9212E 07	0.9213E 07	0.9212E 07	0.9213E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	2.000	5.000	1.500	2.000	2.000	1.500
MG-S %	1.000	0.7000	0.7000	1.000	2.100	1.500
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.2000E-01	0.1500E-01	0.2000E-02	0.5000E-01	0.1000E 00	0.3000E-02
MN-S	G 5000.	3000.	5000.	G 5000.	2000.	5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	N 10.00	N 10.00	10.00	10.00	N 10.00
BA-S	70.00	100.0	70.00	70.00	1500.	50.00
BE-S	L 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	L 20.00	N 20.00
CO-S	10.00	5.000	5.000	5.000	10.00	5.000
CR-S	10.00	L 10.00	L 10.00	30.00	50.00	10.00
CU-S	20.00	100.0	20.00	20.00	50.00	70.00
LA-S	20.00	N 20.00	N 20.00	50.00	N 20.00	N 20.00
MO-S	15.00	20.00	20.00	20.00	30.00	5.000
NR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	15.00	10.00	10.00	10.00	15.00	5.000
PB-S	200.0	500.0	150.0	50.00	100.0	200.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	500.0	500.0	700.0	700.0
V-S	150.0	20.00	30.00	70.00	70.00	20.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	L 10.00	L 10.00	30.00	10.00	L 10.00
ZN-S	N 200.0	500.0	200.0	200.0	500.0	200.0
ZR-S	10.00	L 10.00	L 10.00	15.00	200.0	L 10.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2=C, %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS LAMINADOS

A M O S T R A S

VARIÁVEL	JA0022	JA0023	JA0049	JA0069B	JA0080B	JA0083
MND-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSCL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	30.00	150.0	35.00	25.00	45.00	150.0
PB-AA	110.0	380.0	70.00	25.00	35.00	160.0
ZN-AA	55.00	710.0	380.0	230.0	670.0	380.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ET-INS	425.0	1200.	130.0	275.0	375.0	3200.



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PROJETO - SANTANA

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CALCARENITCS E MARGAS

A M O S T R A S

VARIAVEL	JA0091	JF0005	JF0105	JA0048A	JA0353	JF0413F	JM0008D	JM0028	JF0369B
LATITUDE	0.2570E 05	0.2604E 05	0.2638F 05	0.2568E 05	0.2752F 05	0.2758E 05	0.2726E 05	0.2705E 05	0.2708F 05
LONGITUD	0.1430F 06	0.1420E 06	0.1420E 06	0.1427E 06	0.1457E 06	0.1453E 06	0.1410F 06	0.1434E 06	0.1411E 06
UTM-ABC	0.4208E 06	0.4514E 06	0.4515E 06	0.4304F 06	0.3372E 06	0.3331E 06	0.4820E 06	0.4075E 06	0.4793E 06
UTM-OPD	0.9211E 07	0.9200E 07	0.9190F 07	0.9211E 07	0.9152E 07	0.9153E 07	0.9162E 07	0.9169E 07	0.9169E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	10.00	2.000	2.000	1.300	10.00	0.3000	3.000	7.000
MG-S %	1.500	10.00	2.000	2.000	0.7000	2.000	1.000	1.000	1.500
CA-S %	20.00	G 20.00	20.00	G 20.00	G 20.00	G 20.00	20.00	20.00	15.00
TI-S %	0.2000	0.2000E-01	0.7000	0.7000	0.1500	0.7000	0.5000	0.1500	0.5000
MN-S	1500.	G 5000.	2000.	G 5000.	G 5000.	3000.	5000.	G 5000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	1.500	V 0.5000	2.000	3.000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	L 10.00	50.00	50.00	L 10.00	50.00	L 10.00	N 10.00	50.00
BA-S	500.0	3000.	3000.	1000.	5000.	G 5000.	700.0	1000.	G 5000.
BE-S	1.500	V 1.000	1.000	L 1.000	L 1.000	1.500	1.500	1.500	3.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	H 50.00	20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	5.000	5.000	5.000	5.000	20.00	5.000	20.00	30.00
CR-S	70.00	L 10.00	70.00	70.00	70.00	300.0	50.00	50.00	100.0
CU-S	100.0	30.00	7.000	15.00	20.00	500.0	5.000	150.0	30.00
LA-S	50.00	N 20.00	50.00	70.00	30.00	100.0	100.0	100.0	100.0
MO-S	30.00	15.00	N 5.000	7.000	50.00	300.0	N 5.000	15.00	N 5.000
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	20.00	15.00	10.00	15.00
NI-S	50.00	10.00	20.00	20.00	30.00	300.0	15.00	30.00	70.00
PB-S	70.00	50.00	50.00	50.00	70.00	150.0	30.00	1000.	150.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	N 5.000	7.000	7.000	L 5.000	20.00	7.000	5.000	15.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	H 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	300.0	500.0	200.0	300.0	300.0	500.0	700.0
V-S	100.0	70.00	30.00	50.00	200.0	2000.	50.00	200.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	N 10.00	50.00	100.0	30.00	100.0	100.0	30.00	150.0
ZN-S	L 200.0	L 200.0	N 200.0	N 200.0	L 200.0	500.0	N 200.0	1500.	500.0
ZR-S	30.00	V 10.00	200.0	700.0	50.00	300.0	300.0	20.00	500.0
CU-AA	60.00	20.00	5.000	10.00	40.00	220.0	5.000	120.0	35.00
PB-AA	H 40.00	H 50.00	H 20.00	H 30.00	60.00	50.00	H 30.00	220.0	55.00
ZN-AA	100.0	150.0	35.00	10.00	45.00	170.0	10.00	970.0	310.0
AG-AA	H 2.000	H 2.500	H 1.000	H 2.000	H 4.000	H 2.000	H 2.000	H 3.500	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET RES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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PROJETO - SANTANA

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CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JF0369C	JA0144B	JA0223A	JA0224	JF0395A	JF0401B	JF0413C	JF0391D	JA0265B
LATITUDE	0.2708E 05	0.2763E 05	0.2698E 05	0.2699E 05	0.2771F 05	0.2892E 05	0.2758E 05	0.2774E 05	0.2727E 05
LONGITUD	0.1411E 06	0.1414F 06	0.1408F 06	0.1408E 06	0.1445E 06	0.1456E 06	0.1458F 06	0.1447F 06	0.1443E 06
UTM-ABC	0.4793E 06	0.4702F 06	0.4876F 06	0.4877E 06	0.3707F 06	0.3415E 06	0.3331F 06	0.3693F 06	0.3797E 06
UTM-ORD	0.9159E 07	0.9152E 07	0.9172E 07	0.9171E 07	0.9149E 07	0.9112E 07	0.9153E 07	0.9148E 07	0.9163E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	3.000	3.000	7.000	10.00	3.000	2.000	5.000	7.000
MG-S %	1.500	1.000	1.000	1.500	2.000	1.000	1.000	2.000	0.5000
CA-S %	20.00	20.00	20.00	20.00	5.000	15.00	G 20.00	20.00	15.00
TI-S %	0.2000	0.2000	0.1000F 00	0.2000	0.7000	0.5000	0.7000E-01	0.5000	0.7000
4N-S	5000.	G 5000.	5000.	5000.	1000.	300.0	2000.	1000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	L 10.00	L 10.00	20.00	100.0	70.00	L 10.00	200.0	50.00
BA-S	300.0	500.0	200.0	300.0	5000.	500.0	1000.	G 5000.	3000.
BE-S	2.000	2.000	1.000	1.500	3.000	L 1.000	L 1.000	1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	7.000	7.000	30.00	10.00	70.00	7.000	L 5.000	30.00	20.00
CR-S	70.00	50.00	30.00	70.00	150.0	50.00	50.00	150.0	100.0
CU-S	50.00	30.00	150.0	50.00	500.0	20.00	20.00	100.0	20.00
LA-S	70.00	70.00	50.00	50.00	70.00	70.00	20.00	100.0	100.0
MO-S	N 5.000	L 5.000	15.00	N 5.000	20.00	L 5.000	15.00	5.000	L 5.000
NB-S	10.00	L 10.00	L 10.00	10.00	20.00	10.00	L 10.00	10.00	15.00
NI-S	30.00	20.00	20.00	30.00	300.0	50.00	20.00	150.0	150.0
PB-S	150.0	100.0	200.0	200.0	70.00	20.00	10.00	50.00	15.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10.00	7.000	L 5.000	10.00	50.00	10.00	5.000	15.00	20.00
SN-S	V 10.00	N 10.00	V 10.00	N 10.00	10.00	N 10.00	N 10.00	N 10.00	10.00
SR-S	500.0	300.0	200.0	700.0	700.0	500.0	1000.	2000.	300.0
V-S	150.0	70.00	100.0	100.0	500.0	100.0	50.00	700.0	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	15.00	20.00	20.00	100.0	30.00	15.00	70.00	200.0
ZN-S	200.0	300.0	300.0	300.0	700.0	N 200.0	L 200.0	L 200.0	L 200.0
ZR-S	70.00	100.0	20.00	70.00	150.0	100.0	30.00	50.00	700.0
CU-AA	45.00	45.00	190.0	40.00	190.0	20.00	25.00	70.00	15.00
PB-AA	60.00	70.00	110.0	85.00	45.00	H 25.00	H 55.00	H 45.00	H 30.00
ZN-AA	150.0	320.0	680.0	270.0	290.0	25.00	30.00	55.00	25.00
AG-AA	H 3.000	H 3.500	H 3.500	H 3.000	H 1.500	H 1.000	H 4.000	H 2.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	R 0.0	B 0.0	R 0.0	R 0.0	R 0.0	R 0.0	R 0.0
BI-AA	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
YE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET RES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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PROJETO - SANTANA

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CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0276E	JA0337B	JA0358	JA0359B	JA0364B	JA0384A	JA0384B	JA0398	JA0430
LATITUDF	0.2745F 05	0.2746F 05	0.2764E 05	0.2763F 05	0.2765F 05	0.2735E 05	0.2735E 05	0.2753E 05	0.2822E 05
LONGITUD	0.1442E 06	0.1442F 06	0.1460E 06	0.1458E 06	0.1457E 06	0.1455E 06	0.1455E 06	0.1457E 06	0.1463F 06
UTM-ABC	0.3343E 06	0.3345E 06	0.3293F 06	0.3338E 06	0.3375E 06	0.3445E 06	0.3445E 06	0.3367E 06	0.3179E 06
UTM-ORD	0.9157E 07	0.9157E 07	0.9151E 07	0.9151E 07	0.9151E 07	0.9160E 07	0.9160E 07	0.9154E 07	0.9133E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	5.000	1.000	1.000	0.7000	1.500	2.000	1.500	2.000
MG-S %	1.500	1.000	0.5000	0.7000	0.7000	1.000	1.000	1.000	10.00
CA-S %	5.000	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.7000	0.7000E-01	0.5000E-01	0.5000E-01	0.2000E-01	0.1000E 00	0.1000E 00	0.5000F-01	0.1000E 00
MN-S	700.0	G 5000.	G 5000.	G 5000.	5000.	G 5000.	5000.	5000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	200.0	10.00	L 10.00	L 10.00	L 10.00	10.00	10.00	L 10.00	10.00
BA-S	2000.	2000.	G 5000.	5000.	2000.	200.0	300.0	100.0	200.0
BE-S	3.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	N 1.000	L 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	50.00	N 20.00	20.00	20.00	50.00	N 20.00
CO-S	50.00	10.00	15.00	15.00	5.000	15.00	10.00	7.000	10.00
CR-S	200.0	20.00	20.00	70.00	10.00	50.00	70.00	50.00	50.00
CU-S	150.0	30.00	50.00	70.00	20.00	50.00	70.00	30.00	70.00
LA-S	150.0	70.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
MO-S	100.0	200.0	50.00	30.00	20.00	30.00	50.00	20.00	7.000
NB-S	15.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00	L 10.00	10.00
NI-S	300.0	70.00	20.00	20.00	5.000	50.00	50.00	20.00	15.00
PB-S	100.0	15.00	50.00	50.00	10.00	20.00	20.00	30.00	500.0
SB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	70.00	5.000	V 5.000	5.000	N 5.000	5.000	5.000	5.000	5.000
SN-S	10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	2000.	300.0	500.0	200.0	200.0	200.0	200.0	500.0	100.0
V-S	200.0	150.0	100.0	200.0	150.0	200.0	150.0	150.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	150.0	20.00	20.00	30.00	10.00	20.00	15.00	15.00	15.00
ZN-S	200.0	L 200.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	L 200.0
ZR-S	700.0	20.00	30.00	30.00	10.00	70.00	100.0	20.00	50.00
CU-AA	90.00	35.00	30.00	40.00	15.00	35.00	50.00	30.00	100.0
PB-AA	60.00	H 55.00	55.00	55.00	55.00	H 50.00	H 45.00	55.00	230.0
ZN-AA	160.0	30.00	140.0	70.00	15.00	65.00	30.00	110.0	180.0
AG-AA	H 1.000	H 3.500	H 3.000	H 3.000	H 3.000	H 2.500	H 2.500	H 2.500	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0463H	JA0519C	JA0526C	JA0544	JA0554	JA0463G	JA0364A	JA0376B	JA0386
LATITUDE	0.2878E 05	0.2650E 05	0.2664E 05	0.2666E 05	0.2645E 05	0.2878E 05	0.2765E 05	0.2737E 05	0.2736E 05
LONGITUDE	0.1468E 06	0.1465E 06	0.1465E 06	0.1468E 06	0.1465E 06	0.1468E 06	0.1457E 06	0.1455E 06	0.1455E 06
UTM-ABC	0.3030E 06	0.3115E 06	0.3116E 06	0.3042E 06	0.3142E 06	0.3030E 06	0.3375E 06	0.3440E 06	0.3450E 06
UTM-ORD	0.9116E 07	0.9186E 07	0.9182E 07	0.9181E 07	0.9188E 07	0.9116E 07	0.9151E 07	0.9159E 07	0.9160E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	1.500	1.500	2.000	1.000	0.5000	1.500	3.000	1.500	2.000
MG-S %	1.000	1.500	1.500	0.7000	1.000	1.000	2.000	1.000	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.5000E-01	0.2000	0.1000E 00	0.1500	0.1500E-01	0.5000E-01	0.1500	0.1500	0.1000E 00
MN-S	5000.	5000.	2000.	5000.	5000.	5000.	2000.	5000.	5000.
AG-S	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	10.00	20.00	50.00	L 10.00	10.00	20.00	10.00	L 10.00
BA-S	5000.	500.0	200.0	1000.	200.0	2000.	G 5000.	700.0	1000.
BE-S	N 1.000	L 1.000	L 1.000	L 1.000	N 1.000	L 1.000	L 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	L 20.00	V 20.00	N 20.00	N 20.00	N 20.00	20.00	N 20.00	L 20.00	L 20.00
CO-S	15.00	5.000	7.000	5.000	5.000	15.00	10.00	20.00	20.00
CR-S	50.00	100.0	70.00	150.0	20.00	50.00	70.00	70.00	70.00
CU-S	50.00	30.00	50.00	7.000	7.000	70.00	70.00	70.00	70.00
LA-S	20.00	20.00	20.00	20.00	L 20.00	20.00	30.00	20.00	20.00
MO-S	5.000	L 5.000	20.00	L 5.000	N 5.000	N 5.000	50.00	50.00	70.00
NR-S	L 10.00	10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	10.00	15.00	30.00	15.00	5.000	10.00	70.00	50.00	50.00
PB-S	700.0	200.0	30.00	20.00	200.0	1000.	50.00	50.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	5.000	5.000	5.000	N 5.000	N 5.000	10.00	5.000	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	200.0	150.0	300.0	200.0	200.0	200.0	200.0
V-S	50.00	20.00	70.00	30.00	20.00	100.0	500.0	200.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	20.00	15.00	20.00	10.00	10.00	30.00	20.00	10.00
ZN-S	300.0	N 200.0	N 200.0	N 200.0	N 200.0	500.0	N 200.0	N 200.0	N 200.0
ZR-S	15.00	500.0	100.0	150.0	10.00	20.00	100.0	70.00	30.00
CU-AA	50.00	25.00	35.00	5.000	10.00	60.00	60.00	65.00	80.00
PB-AA	250.0	110.0	H 40.00	H 25.00	130.0	250.0	H 35.00	H 45.00	H 45.00
ZN-AA	330.0	50.00	25.00	15.00	60.00	350.0	65.00	50.00	50.00
AG-AA	H 2.500	H 2.000	H 2.000	H 1.500	H 3.000	H 2.500	H 2.000	H 2.500	H 2.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET RES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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CALCARENITOS E MARGAS

A M O S T R A S

VARIABEL	JA0456A	JF0443	JF0586	JA0392	JA0457B	JA0527A	JA0404	JF0428	JF0429B
LATITUDE	0.2867E 05	0.2732E 05	0.2623E 05	0.2723E 05	0.2874E 05	0.2664E 05	0.2754E 05	0.2775E 05	0.2776E 05
LONGITUD	0.1460E 06	0.1467E 06	0.1461E 06	0.1456E 06	0.1458E 06	0.1455E 06	0.1457E 06	0.1448E 06	0.1448E 06
UTM-ABC	0.3283E 06	0.3075E 06	0.3238E 06	0.3393E 06	0.3352E 06	0.3115E 06	0.3376E 06	0.3666E 06	0.3657E 06
UTM-ORD	0.9119E 07	0.9161E 07	0.9194E 07	0.9164E 07	0.9117E 07	0.9182E 07	0.9154E 07	0.9148E 07	0.9148E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	2.000	1.500	2.000	2.000	2.000	3.000	3.000	3.000
MG-S %	2.000	1.500	1.000	1.000	1.000	1.000	1.500	7.000	10.00
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	20.00	20.00
TI-S %	0.1500	0.1000F 00	0.5000F-01	0.7000E-01	0.1000F 00	0.7000E-01	0.1000E 00	0.1500	0.1500
MY-S	G 5000.	G 5000.	2000.	5000.	5000.	5000.	3000.	5000.	5000.
AG-S	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	20.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00	50.00	50.00
BA-S	2000.	5000.	500.0	500.0	500.0	200.0	200.0	700.0	500.0
BE-S	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	N 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	10.00	5.000	7.000	5.000	10.00	15.00	15.00	7.000
CR-S	70.00	70.00	50.00	50.00	50.00	50.00	70.00	50.00	70.00
CU-S	30.00	70.00	30.00	70.00	10.00	50.00	100.0	100.0	20.00
LA-S	100.0	20.00	L 20.00	20.00	20.00	20.00	20.00	20.00	20.00
MO-S	H 5.000	30.00	10.00	50.00	5.000	50.00	700.0	7.000	10.00
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00
NI-S	50.00	30.00	20.00	20.00	15.00	20.00	70.00	20.00	20.00
PB-S	150.0	20.00	10.00	20.00	30.00	20.00	30.00	100.0	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10.00	10.00	N 5.000	5.000	5.000	5.000	5.000	5.000	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	200.0	200.0	300.0	300.0	300.0	500.0	200.0
V-S	50.00	150.0	50.00	150.0	20.00	100.0	500.0	150.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	150.0	30.00	10.00	20.00	20.00	10.00	20.00	20.00	20.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	N 200.0
ZR-S	150.0	100.0	70.00	20.00	30.00	20.00	50.00	30.00	50.00
CU-AA	20.00	40.00	25.00	60.00	15.00	40.00	130.0	85.00	15.00
PB-AA	65.00	H 40.00	H 45.00	15.00	20.00	15.00	10.00	50.00	10.00
ZN-AA	30.00	110.0	15.00	55.00	20.00	40.00	30.00	270.0	20.00
AG-AA	H 2.500	H 2.500	H 3.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AC-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET RES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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## CALCARENITOS E MARGAS

## A M O S T R A S

VARIÁVEL	JF0058	JF0026C	JF0046B
LATITUDE	0.2611E 05	0.2660F 05	0.2649F 05
LONGITUD	0.1420E 06	0.1409F 06	0.1415E 06
UTM-ABC	0.4499E 06	0.4842E 06	0.4674F 06
UTM-ORD	0.7198E 07	0.9193E 07	0.9187F 07
M. C.	39.00	39.00	39.00
FF-S %	2.000	5.000	5.000
MG-S %	2.000	2.000	1.500
CA-S %	G 20.00	G 20.00	1.500
TI-S %	0.1500	0.2000	1.000
MN-S	3000.	G 5000.	500.0
AG-S	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00
B-S	30.00	30.00	100.0
BA-S	200.0	500.0	700.0
BF-S	L 1.000	L 1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00
CO-S	10.00	10.00	20.00
CR-S	100.0	100.0	100.0
CU-S	50.00	30.00	50.00
LA-S	50.00	50.00	70.00
MO-S	N 5.000	N 5.000	N 5.000
NO-S	L 10.00	L 10.00	15.00
NI-S	20.00	50.00	50.00
PB-S	100.0	100.0	20.00
SB-S	N 100.0	N 100.0	N 100.0
SC-S	10.00	10.00	15.00
SN-S	N 10.00	N 10.00	N 10.00
SR-S	200.0	300.0	100.0
V-S	50.00	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00
Y-S	20.00	20.00	50.00
ZN-S	L 200.0	L 200.0	N 200.0
ZR-S	70.00	100.0	500.0
CU-AA	40.00	30.00	25.00
PB-AA	25.00	30.00	L 5.000
ZN-AA	220.0	190.0	40.00
AG-AA	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0

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## CALCARENITOS E MARGAS

## A M O S T R A S

VARIÁVEL	JF0068	JF0026C	JF0046B
CO-COL	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0
SF-COL	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0
F-INS	700.0	400.0	400.0
S-INS %	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0

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FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA

A M O S T R A S

VARIÁVEL	JA0092A	JA0059B	JA0078	JM0003B	JF0389J	JF0390H	JA0276C	JA0524A	JF0427
LATITUDE	0.2550E 05	0.2582E 05	0.2588E 05	0.2726E 05	0.2776E 05	0.2777E 05	0.2745E 05	0.2650E 05	0.2774E 05
LONGITUDE	0.1429E 06	0.1430E 06	0.1430E 06	0.1410E 06	0.1448E 06	0.1449E 06	0.1442E 06	0.1463E 06	0.1448E 06
UTM-ARC	0.4247E 06	0.4193E 06	0.4216E 06	0.4820E 06	0.3646E 06	0.3634E 06	0.3843E 06	0.3189E 06	0.3658E 06
UTM-DRD	0.9217E 07	0.9207E 07	0.9212E 07	0.7163E 07	0.9148E 07	0.9147E 07	0.9157E 07	0.9186E 07	0.9148E 07
H. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	3.000	7.000	3.000	7.000	10.00	2.000	5.000	5.000	3.000
MG-S %	1.500	1.500	1.500	1.500	2.000	3.000	1.500	1.500	10.00
CA-S %	20.00	20.00	20.00	20.00	10.00	G 20.00	20.00	20.00	15.00
TI-S %	0.1500	0.2000	0.2000	0.5000	0.5000	0.1500	0.5000	0.2000	0.1500
MN-S	1500.	1500.	2000.	G 5000.	1000.	G 5000.	1500.	1000.	5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	2.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-C	30.00	100.0	15.00	100.0	200.0	20.00	100.0	20.00	100.0
BA-S	500.0	700.0	1500.	700.0	700.0	5000.	500.0	2000.	2000.
BE-S	1.500	1.000	L 1.000	3.000	1.000	L 1.000	3.000	1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CU-S	7.000	10.00	7.000	100.0	20.00	5.000	20.00	20.00	20.00
CR-S	70.00	70.00	70.00	200.0	100.0	30.00	50.00	100.0	70.00
CA-S	30.00	30.00	30.00	700.0	100.0	20.00	100.0	100.0	100.0
LA-S	30.00	100.0	30.00	100.0	150.0	50.00	200.0	50.00	50.00
MO-S	30.00	150.0	15.00	150.0	100.0	200.0	150.0	I 5.000	10.00
NB-S	L 10.00	L 10.00	L 10.00	15.00	10.00	L 10.00	10.00	20.00	10.00
NI-S	30.00	30.00	30.00	H 500.0	150.0	20.00	200.0	50.00	50.00
PB-S	70.00	70.00	70.00	100.0	70.00	30.00	150.0	50.00	200.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	7.000	15.00	7.000	20.00	15.00	5.000	10.00	10.00	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	700.0	1500.	500.0	700.0	1000.	1500.	1500.	200.0	1000.
V-S	200.0	200.0	150.0	1500.	700.0	200.0	700.0	150.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	100.0	30.00	150.0	150.0	15.00	150.0	30.00	20.00
ZN-S	300.0	L 200.0	L 200.0	700.0	300.0	L 200.0	500.0	N 200.0	1000.
ZR-S	100.0	100.0	50.00	150.0	500.0	30.00	150.0	100.0	50.00
CU-AA	40.00	25.00	30.00	110.0	55.00	15.00	65.00	160.0	100.0
PB-AA	H 45.00	H 45.00	H 45.00	H 55.00	H 45.00	H 50.00	80.00	H 50.00	110.0
ZN-AA	250.0	100.0	120.0	340.0	250.0	140.0	430.0	50.00	1000.
AG-AA	H 2.000	H 1.500	H 2.500	H 2.500	H 1.500	H 2.500	H 2.000	H 2.000	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	1700.	375.0	1900.	1300.	900.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA

A M O S T R A S

VARIÁVEL	JF0394F	JF0425A	JF0425B	JF0426A	JF0426B	JF0429A	JF0072	JA0057C
LATITUDE	0.2752E 05	0.2775E 05	0.2775E 05	0.2775E 05	0.2775E 05	0.2776E 05	0.2613E 05	0.2569E 05
LONGITUDE	0.1446E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1421E 06	0.1430E 06
UTM-ABC	0.3725E 06	0.3667E 06	0.3667E 06	0.3655E 06	0.3655E 06	0.3657E 06	0.4493E 06	0.4207E 06
UTM-ORD	0.9152E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9158E 07	0.9211E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	5.000	3.000	5.000	5.000	3.000	2.000	5.000
MG-S %	7.000	2.000	5.000	2.000	7.000	2.000	1.500	2.000
CA-S %	20.00	10.00	10.00	10.00	10.00	10.00	G 20.00	20.00
TI-S %	0.2000	0.3000	0.1500	0.2000	0.2000	0.2000	0.1500	0.2000
MN-S	2000.	1000.	5000.	2000.	5000.	2000.	5000.	2000.
AG-S	V 0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	150.0	150.0	100.0	70.00	100.0	30.00	100.0
BA-S	G 5000.	500.0	2000.	300.0	G 5000.	700.0	200.0	500.0
BE-S	L 1.000	1.000	1.000	1.000	L 1.000	1.000	1.000	1.000
BI-S	N 10.00	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	15.00	10.00	15.00	15.00	10.00	10.00	10.00
CR-S	100.0	100.0	70.00	100.0	100.0	70.00	70.00	100.0
CU-S	70.00	70.00	100.0	100.0	70.00	70.00	30.00	50.00
LA-S	50.00	50.00	20.00	70.00	20.00	20.00	70.00	100.0
MO-S	10.00	20.00	5.000	100.0	5.000	50.00	30.00	30.00
NB-S	10.00	10.00	10.00	10.00	10.00	10.00	L 10.00	10.00
NI-S	70.00	50.00	20.00	70.00	50.00	50.00	20.00	50.00
PR-S	70.00	100.0	150.0	100.0	50.00	100.0	50.00	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	10.00	5.000	10.00	10.00	10.00	10.00	10.00
SN-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	V 10.00
SR-S	1000.	500.0	500.0	500.0	500.0	700.0	500.0	1000.
V-S	200.0	1000.	100.0	1000.	100.0	1000.	100.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	30.00	20.00	30.00	20.00	20.00	50.00	50.00
ZN-S	300.0	N 200.0	500.0	200.0	L 200.0	200.0	N 200.0	N 200.0
ZR-S	100.0	100.0	20.00	100.0	50.00	70.00	70.00	100.0
CU-AA	50.00	55.00	95.00	70.00	35.00	65.00	30.00	30.00
PR-AA	55.00	30.00	65.00	45.00	15.00	40.00	20.00	25.00
ZN-AA	400.0	120.0	760.0	200.0	100.0	280.0	150.0	110.0
AG-AA	H 1.500	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	1100.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	700.0	1800.
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



MARGA BETUMINOSA DA ZONA MINERALIZADA

A M O S T R A S

VARIÁVEL	JF0006B	JF0018	JF0188A	JF0195	JF0014C
LATITUDE	0.2604E 05	0.2658E 05	0.2653E 05	0.2615E 05	0.2661E 05
LONGITUDE	0.1420E 06	0.1409E 06	0.1406E 06	0.1405E 06	0.1412E 06
UTM-ABC	0.4512E 06	0.4842E 06	0.4933E 06	0.4953E 06	0.4751E 06
UTM-ORD	0.9200E 07	0.9184E 07	0.9185E 07	0.9197E 07	0.9183E 07
M. C.	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	15.00	5.000	7.000	5.000
MG-S %	1.000	0.7000	1.000	0.7000	1.000
CA-S %	20.00	20.00	G 20.00	G 20.00	20.00
TI-S %	0.7000E-01	0.1000E 00	0.1500	0.1000E 00	0.7000E-01
MN-S	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.
AG-S	N 0.5000	7.000	N 0.5000	3.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	10.00	20.00	10.00	20.00
BA-S	150.0	150.0	700.0	300.0	500.0
BE-S	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	L 20.00	70.00	30.00	20.00
CE-S	50.00	70.00	20.00	7.000	15.00
CF-S	30.00	50.00	50.00	50.00	50.00
CG-S	150.0	150.0	70.00	70.00	70.00
CH-S	20.00	70.00	20.00	50.00	50.00
CI-S	150.0	100.0	70.00	70.00	30.00
CJ-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
CK-S	30.00	300.0	50.00	30.00	70.00
CL-S	700.0	10000.	1500.	10000.	2000.
CM-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
CN-S	L 5.000	5.000	7.000	5.000	5.000
CO-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CP-S	500.0	500.0	700.0	700.0	500.0
CQ-S	500.0	1000.	700.0	1000.	300.0
CR-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
CS-S	50.00	150.0	30.00	50.00	30.00
CT-S	300.0	1500.	5000.	1500.	1500.
CU-S	30.00	30.00	150.0	30.00	50.00
CV-S	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	B 0.0	B 0.0	0.1300
ZN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	0.2900
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	65.00	110.0	70.00	45.00	60.00
PB-AA	200.0	G 1000.	580.0	G 1000.	G 1000.
ZN-AA	220.0	G 1000.	G 1000.	G 1000.	G 1000.
AG-AA	H 2.500	H 3.500	H 2.500	H 3.000	N 0.5000

CPRM

LISTAGEM DE MATRIZ PRESTA

26.05.76

FLA. 109

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## MARGA BETUMINOSA DA ZONA MINERALIZADA

## A M O S T R A S

VARIAVEL	JF0006B	JF0018	JF0189A	JF0195	JF0014C
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	450.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

BRECHA CALCARIA MINERALIZADA

A M O S T R A S

VARIÁVEL	JF0196	JF0197	JF0213A	JF0005A	JF0014A	JF0010B	JF0206B	JF0189B	JA0011
LATITUDE	0.2648E 05	0.2614E 05	0.2681E 05	0.2604E 05	0.2561E 05	0.2643F 05	0.2669E 05	0.2653F 05	0.2633E 05
LONGITUD	0.1406E 06	0.1405F 06	0.1408F 06	0.1420F 06	0.1412F 06	0.1417E 06	0.1406F 06	0.1405E 06	0.1406E 06
UTM-ABC	0.4927E 06	0.4975E 06	0.4882F 06	0.4512E 06	0.4751E 06	0.4599E 06	0.4938E 06	0.4933E 06	0.4924E 06
UTM-ORD	0.9187E 07	0.9197E 07	0.9177E 07	0.9200E 07	0.9193E 07	0.9188E 07	0.9190E 07	0.9185E 07	0.9192E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	3.000	5.000	7.000	15.00	7.000	1.000	7.000	2.000
MG-S %	1.000	1.000	1.000	2.000	10.00	5.000	1.000	2.000	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	1.500	G 20.00
TI-S %	0.7000E-01	0.1500	0.1000E 00	0.5000E-01	0.2000E-01	0.7000E-01	0.5000E-01	1.000	0.5000E-01
MY-S	G 5000.	5000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	500.0	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
E-C	10.00	30.00	L 10.00	10.00	10.00	10.00	L 10.00	100.0	L 10.00
BA-S	150.0	300.0	150.0	150.0	70.00	70.00	70.00	500.0	100.0
BE-S	L 1.000	1.500	V 1.000	L 1.000	L 1.000	L 1.000	L 1.000	2.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	50.00	N 20.00	20.00	N 20.00	20.00	L 20.00	N 20.00	N 20.00
CO-S	10.00	10.00	30.00	30.00	10.00	20.00	5.000	20.00	5.000
CR-S	30.00	50.00	30.00	10.00	L 10.00	20.00	20.00	100.0	20.00
CU-S	30.00	100.0	200.0	70.00	30.00	70.00	30.00	70.00	200.0
LA-S	30.00	50.00	20.00	50.00	30.00	50.00	20.00	100.0	20.00
MD-S	20.00	200.0	20.00	100.0	30.00	50.00	15.00	N 5.000	15.00
NB-S	L 10.00	L 10.00	N 10.00	L 10.00	L 10.00	L 10.00	L 10.00	15.00	N 10.00
NI-S	50.00	30.00	30.00	30.00	15.00	50.00	10.00	70.00	15.00
PB-S	200.0	5000.	500.0	G 0.2000E 05	700.0	1500.	1500.	30.00	200.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	7.000	7.000	V 5.000	N 5.000	N 5.000	5.000	N 5.000	20.00	N 5.000
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1000.	700.0	200.0	500.0	200.0	300.0	700.0	100.0	500.0
V-S	700.0	700.0	70.00	150.0	100.0	150.0	200.0	150.0	30.00
W-S	N 50.00	V 50.00	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	100.0	20.00	50.00	20.00	50.00	20.00	50.00	L 10.00
ZN-S	200.0	3000.	2000.	1500.	L 200.0	1000.	200.0	N 200.0	200.0
ZR-S	50.00	50.00	20.00	50.00	10.00	50.00	20.00	150.0	20.00
TA205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	3 0.0	7.110	B 0.0	0.1000F 00	0.4600	B 0.0	B 0.0
ZN-Q %	B 0.0	B 0.0	B 0.0	0.3300	B 0.0	0.1800	0.4000E-01	B 0.0	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	35.00	85.00	200.0	65.00	25.00	60.00	35.00	60.00	250.0
PE-AA	90.00	G 1000.	110.0	G 1000.	840.0	G 1000.	G 1000.	10.00	90.00
ZN-AA	310.0	G 1000.	G 1000.	G 1000.	220.0	G 1000.	320.0	55.00	410.0
AG-AA	2.000	H 2.500	H 3.500	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000



S E A G

PROJETO - SANTANA

CFNTRD DE CUSTO - 1523.310

FOLHELHO DO TOPO E DA BASE DA ZONA MINERALIZADA

A M O S T R A S

VARIÁVEL	JF0006C	JF0010A	JF0054	JF0206A	JF0014D	JF0371	JF0188C
LATITUDE	0.2604E 05	0.2643F 05	0.2644E 05	0.2669F 05	0.2551E 05	0.2717E 05	0.2653E 05
LONGITUDE	0.1420E 06	0.1417E 06	0.1417F 06	0.1406E 06	0.1412E 06	0.1410E 06	0.1406F 06
UTM-ABC	0.4512E 06	0.4599E 06	0.4597F 06	0.4938E 06	0.4751E 06	0.4830E 06	0.4933F 06
UTM-ORD	0.3230E 07	0.9188E 07	0.9188F 07	0.9180E 07	0.9183E 07	0.9166F 07	0.9185F 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	10.00	10.00	20.00	10.00	15.00	7.000
MG-S %	1.500	1.500	1.500	1.500	2.000	3.000	2.000
CA-S %	15.00	0.7000	1.000	1.500	0.7000	5.000	20.00
TI-S %	0.3000	0.7000	0.7000	0.7000	1.000	0.5000	0.5000
MN-S	G 5000.	500.0	700.0	1500.	300.0	3000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	3.000	0.5000	2.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	150.0	150.0	150.0	150.0	200.0	100.0
BA-S	300.0	700.0	700.0	700.0	700.0	1000.	500.0
BE-S	1.000	3.000	3.000	1.000	1.500	2.000	1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	7.000	30.00	30.00	50.00	50.00	200.0	30.00
CR-S	70.00	150.0	150.0	200.0	300.0	300.0	200.0
CU-S	30.00	150.0	150.0	200.0	150.0	300.0	70.00
LA-S	70.00	70.00	70.00	20.00	70.00	70.00	100.0
MO-S	5.000	V 5.000	L 5.000	15.00	L 5.000	200.0	L 5.000
MP-S	L 10.00	20.00	20.00	15.00	15.00	15.00	15.00
NI-S	30.00	150.0	150.0	50.00	200.0	200.0	70.00
PB-S	50.00	70.00	20.00	500.0	30.00	500.0	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	70.00	70.00	50.00	50.00	50.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	H 10.00	N 10.00
SR-S	500.0	150.0	100.0	500.0	100.0	300.0	200.0
V-S	70.00	500.0	500.0	500.0	200.0	300.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	50.00	70.00	20.00	100.0	50.00	70.00
ZN-S	N 200.0	N 200.0	L 200.0	1000.	N 200.0	2000.	N 200.0
ZR-S	30.00	150.0	500.0	150.0	500.0	150.0	200.0
CU-AA	30.00	65.00	55.00	110.0	65.00	130.0	45.00
PR-AA	H 35.00	40.00	25.00	160.0	20.00	150.0	30.00
ZN-AA	30.00	45.00	85.00	700.0	50.00	940.0	65.00
AG-AA	H 1.500	H 0.5000	H 0.5000	H 1.500	H 0.5000	H 1.500	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	700.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





S E A C

PROJETO - SANTAVA

CENTRO DE CUSTO - 1523.310

FOLHELHO COM CONCRECOES DE ICTIOLITOS

A M O S T R A S

VARIÁVEL	JF0211B	JA0089	JM0003	JM0004	JM0003	JF0335	JF038CA	JA0168A	JA0176C
LATITUDE	0.2532E 05	0.2551E 05	0.2723F 05	0.2723F 05	0.2723E 05	0.2730F 05	0.2722E 05	0.2737F 05	0.2756E 05
LONGITUD	0.1408E 06	0.1428E 06	0.1409F 06	0.1409E 06	0.1410E 06	0.1414F 06	0.1410E 06	0.1414E 06	0.1415E 06
UTM-ABC	0.4882E 06	0.4251E 06	0.4835F 06	0.4837E 06	0.4820E 06	0.4684F 06	0.4820F 06	0.4700F 06	0.4665E 06
UTM-ORD	0.9176E 07	0.9217E 07	0.9164F 07	0.9164E 07	0.9164E 07	0.9162E 07	0.9164E 07	0.9160F 07	0.9154E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	7.000	15.00	15.00	15.00	15.00	20.00	15.00	15.00
MG-S %	1.500	1.500	2.000	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	2.000	7.000	1.500	10.00	5.000	2.000	2.000	G 20.00	1.000
TI-S %	0.7000	0.7000	G 1.000	0.7000	1.000	1.000	1.000	0.7000	G 1.000
MN-S	700.0	700.0	700.0	700.0	700.0	1500.	700.0	5000.	1000.
AG-S	N 0.5000	N 0.5000	V 0.5000	1.500	1.000	0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	30.00	50.00	70.00	70.00	100.0	70.00	50.00	15.00	70.00
BA-S	1500.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	5000.	1000.
BE-S	3.000	2.000	3.000	3.000	3.000	3.000	2.000	1.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	15.00	30.00	20.00	30.00	50.00	50.00	20.00	50.00
CR-S	150.0	150.0	500.0	300.0	300.0	500.0	500.0	150.0	300.0
CU-S	100.0	70.00	200.0	100.0	500.0	200.0	200.0	50.00	150.0
LA-S	150.0	150.0	150.0	100.0	150.0	200.0	150.0	100.0	100.0
MO-S	70.00	50.00	20.00	300.0	300.0	300.0	300.0	15.00	N 5.000
NB-S	15.00	L 10.00	30.00	20.00	30.00	30.00	30.00	L 10.00	30.00
NI-S	100.0	100.0	H 200.0	H 300.0	H 300.0	H 200.0	H 200.0	50.00	200.0
PB-S	50.00	50.00	70.00	100.0	70.00	70.00	100.0	50.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	30.00	20.00	30.00	30.00	30.00	50.00	50.00	15.00	50.00
SN-S	H 10.00	N 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 15.00	N 10.00	H 10.00
SR-S	300.0	300.0	200.0	500.0	200.0	700.0	700.0	300.0	100.0
V-S	100.0	200.0	500.0	1000.	1000.	700.0	500.0	100.0	300.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	100.0	100.0	70.00	100.0	70.00	70.00	100.0	70.00
ZN-S	200.0	L 200.0	500.0	300.0	200.0	500.0	200.0	L 200.0	300.0
ZR-S	200.0	200.0	300.0	200.0	300.0	200.0	300.0	150.0	500.0
CU-AA	50.00	40.00	100.0	120.0	150.0	120.0	100.0	25.00	45.00
PR-AA	30.00	H 25.00	30.00	35.00	35.00	50.00	40.00	H 45.00	25.00
ZN-AA	110.0	80.00	110.0	110.0	90.00	100.0	95.00	35.00	75.00
AG-AA	H 0.5000	H 0.5000	H 1.000	H 1.500	H 1.000	H 1.000	H 1.000	H 2.500	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHO COM CONCRECOES DE ICTIOLITOS

A M O S T R A S

VARIAVEL	JA0223B	JA0267A	JA0359A	JA0451	JA0541A	JA0542A	JA0376A	JA0541B	JA0541D
LATITUDE	0.2698F 05	0.2731F 05	0.2763F 05	0.2810E 05	0.2678F 05	0.2678E 05	0.2737E 05	0.2678E 05	0.2678F 05
LONGITUD	0.1478E 06	0.1443E 06	0.1458E 06	0.1460E 06	0.1467E 06	0.1466E 06	0.1455E 06	0.1467E 06	0.1457E 06
UTM-ABC	0.4876F 06	0.3793E 06	0.3338F 06	0.3281F 06	0.3059F 06	0.3089F 06	0.3440F 06	0.3059E 06	0.3059F 06
UTM-ORD	0.9172E 07	0.9161E 07	0.9151E 07	0.9137E 07	0.9177E 07	0.9177E 07	0.9159E 07	0.9177E 07	0.9177E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	20.00	20.00	7.000	10.00	5.000	10.00	3.000	5.000	7.000
MG-S %	5.000	1.500	1.500	2.000	1.500	1.500	1.500	1.500	1.500
CA-S %	2.000	2.000	2.000	2.000	0.7000	1.000	G 20.00	1.000	1.000
TI-S %	1.000	0.7000	0.5000	0.3000	1.000	0.5000	0.2000	1.000	1.000
MN-S	2000.	700.0	700.0	500.0	200.0	500.0	2000.	500.0	500.0
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	150.0	100.0	50.00	50.00	50.00	50.00	20.00	50.00	50.00
BA-S	3000.	G 5000.	G 5000.	2000.	700.0	700.0	300.0	700.0	5000.
BF-S	3.000	3.000	1.000	1.000	1.000	2.000	L 1.000	1.500	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	100.0	20.00	20.00	10.00	20.00	20.00	10.00	15.00	15.00
CR-S	300.0	300.0	150.0	150.0	150.0	200.0	100.0	150.0	150.0
CU-S	150.0	200.0	500.0	100.0	70.00	150.0	70.00	50.00	50.00
LA-S	70.00	50.00	70.00	50.00	70.00	100.0	20.00	70.00	70.00
MO-S	7.000	300.0	500.0	30.00	N 5.000	5.000	70.00	N 5.000	5.000
NB-S	20.00	20.00	15.00	15.00	30.00	20.00	L 10.00	20.00	20.00
NI-S	200.0	150.0	150.0	70.00	70.00	70.00	70.00	50.00	50.00
PB-S	70.00	50.00	50.00	50.00	30.00	30.00	20.00	30.00	20.00
SR-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	30.00	30.00	15.00	15.00	20.00	20.00	10.00	15.00	15.00
SN-S	H 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	2000.	300.0	500.0	100.0	200.0	200.0	N 100.0	100.0
V-S	300.0	500.0	1000.	200.0	100.0	200.0	500.0	100.0	100.0
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	30.00	30.00	20.00	50.00	30.00	20.00	30.00	30.00
ZN-S	L 200.0	L 200.0	200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	700.0	150.0	200.0	100.0	500.0	150.0	100.0	300.0	700.0
CU-AA	55.00	130.0	260.0	70.00	35.00	85.00	65.00	35.00	25.00
PB-AA	30.00	35.00	35.00	20.00	15.00	15.00	15.00	15.00	10.00
ZN-AA	80.00	50.00	140.0	50.00	45.00	55.00	40.00	50.00	30.00
AG-AA	H 1.000	H 1.000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHO COM CONCRECOES DE ICTIOLITOS

A M O S T R A S

VARIABEL	JA0542C	JA0573A	JA0542B	JM0299B	JF0440	JF0452
LATITUDE	0.2678E 05	0.2644E 05	0.2678E 05	0.2754E 05	0.2734E 05	0.2732E 05
LONGITUD	0.1466E 06	0.1464E 06	0.1466E 06	0.1466E 06	0.1467E 06	0.1467E 06
UTM-ABC	0.3089E 06	0.3167E 06	0.3089E 06	0.3102E 06	0.3032E 06	0.3080E 06
UTM-ORD	0.9177E 07	0.9188E 07	0.9177E 07	0.9154E 07	0.9160E 07	0.9161E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	7.000	10.00	10.00	7.000	10.00
MG-S %	1.500	1.500	1.500	1.500	1.500	1.500
CA-S %	1.500	2.000	1.000	2.000	5.000	1.000
TI-S %	0.3000	0.5000	0.3000	0.7000	0.5000	0.5000
MN-S	200.0	200.0	150.0	200.0	500.0	200.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	70.00	50.00	50.00	50.00	50.00
BA-S	300.0	700.0	1000.0	700.0	G 500.0	500.0
BE-S	1.000	2.000	1.500	1.000	2.000	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	20.00	20.00	10.00	150.0	20.00
CR-S	150.0	100.0	100.0	200.0	100.0	150.0
CU-S	100.0	100.0	70.00	70.00	200.0	100.0
LA-S	50.00	70.00	50.00	70.00	100.0	100.0
MO-S	10.00	5.000	N 5.000	5.000	900.0	N 5.000
NB-S	15.00	20.00	20.00	20.00	15.00	20.00
NI-S	50.00	50.00	70.00	50.00	700.0	50.00
PB-S	50.00	50.00	30.00	30.00	50.00	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	20.00	20.00	15.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	N 100.0	200.0	200.0	N 100.0
V-S	150.0	150.0	200.0	150.0	1000.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	30.00	20.00	50.00	70.00	20.00
ZN-S	N 200.0	N 200.0	L 200.0	N 200.0	700.0	L 200.0
ZR-S	100.0	150.0	150.0	150.0	200.0	150.0
CU-AA	65.00	75.00	55.00	30.00	270.0	70.00
PB-AA	20.00	15.00	15.00	5.000	35.00	15.00
ZN-AA	55.00	30.00	45.00	25.00	540.0	50.00
AG-AA	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHOS E SILTITOS

A M O S T R A S

VARIAVEL	JF0004A	JF0064	JF0205	JF0205B	JF0046A	JF0029B	JF0118	JF0159D	JF0212
LATITUDE	0.2603E 05	0.2649E 05	0.2670E 05	0.2770E 05	0.2549E 05	0.2649E 05	0.2608E 05	0.2650E 05	0.2682E 05
LONGITUD	0.1420E 06	0.1418E 06	0.1406E 06	0.1406E 06	0.1415E 06	0.1416E 06	0.1419E 06	0.1416E 06	0.1408E 06
UTM-ABC	0.4515E 06	0.4570E 06	0.4939E 06	0.4939E 06	0.4674E 06	0.4644E 06	0.4547E 06	0.4646E 06	0.4882E 06
UTM-ORD	0.9201E 07	0.9187E 07	0.9180E 07	0.9180E 07	0.9187E 07	0.9187E 07	0.9199E 07	0.9186E 07	0.9177E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	5.000	7.000	5.000	7.000	10.00	10.00	10.00	1.500
MG-S %	1.500	1.000	1.500	1.500	1.500	1.500	1.500	1.500	1.000
CA-S %	0.7000	0.7000	5.000	0.7000	1.500	1.000	0.7000	15.00	15.00
TI-S %	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000	0.5000	0.2000
MN-S	500.0	300.0	500.0	1000.0	1000.0	700.0	700.0	3000.0	5000.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	1.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	150.0	100.0	100.0	150.0	150.0	150.0	150.0	150.0	15.00
BA-S	700.0	700.0	700.0	1000.0	700.0	700.0	1000.0	500.0	1000.0
BE-S	3.000	1.000	1.000	1.500	3.000	3.000	3.000	1.500	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	15.00	15.00	20.00	20.00	30.00	30.00	70.00	5.000
CR-S	100.0	100.0	150.0	70.00	100.0	100.0	150.0	150.0	70.00
CU-S	10.00	70.00	100.0	200.0	70.00	100.0	100.0	150.0	7.000
LA-S	50.00	30.00	70.00	30.00	50.00	70.00	70.00	150.0	30.00
MO-S	N 5.000	L 5.000	L 5.000	N 5.000	I 5.000	N 5.000	N 5.000	15.00	10.00
NB-S	20.00	20.00	20.00	15.00	20.00	20.00	20.00	10.00	L 10.00
NI-S	50.00	50.00	70.00	50.00	50.00	100.0	100.0	150.0	30.00
PB-S	15.00	10.00	15.00	15.00	20.00	30.00	30.00	70.00	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	H 15.00	15.00	15.00	20.00	20.00	50.00	30.00	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	N 100.0	150.0	L 100.0	150.0	200.0	150.0	500.0	200.0
V-S	150.0	70.00	100.0	150.0	150.0	200.0	500.0	300.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	50.00	50.00	50.00	70.00	70.00	50.00	100.0	50.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	500.0	G 1000.0	500.0	500.0	300.0	200.0	200.0	150.0	300.0
CU-AA	10.00	55.00	55.00	260.0	55.00	60.00	60.00	110.0	15.00
PB-AA	15.00	15.00	4 20.00	15.00	25.00	20.00	25.00	60.00	H 30.00
ZN-AA	40.00	70.00	35.00	45.00	50.00	55.00	50.00	75.00	25.00
AG-AA	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.500	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	H 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JF02138	JF0223	JA0066	JA00108	JA0012	JA0028	JA0048R	JA0050	JA0057A
LATITUDE	0.2681E 05	0.2690E 05	0.2561F 05	0.2634E 05	0.2633E 05	0.2564F 05	0.2568E 05	0.2567F 05	0.2569E 05
LONGITUDE	0.1408F 06	0.1407E 06	0.1428F 06	0.1407E 05	0.1436E 06	0.1425E 06	0.1427E 06	0.1427F 06	0.1430E 06
UTM-ABC	0.4882E 06	0.4919F 06	0.4264F 06	0.4922F 06	0.4925F 06	0.4343E 06	0.4304E 06	0.4304F 06	0.4207E 06
UTM-ORD	0.9177E 07	0.9174E 07	0.9214F 07	0.9191E 07	0.9192F 07	0.9213E 07	0.9211E 07	0.9212E 07	0.9211E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	7.000	1.500	5.000	10.00	7.000	7.000	15.00	7.000
MG-S %	2.000	1.000	0.5000	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	5.000	0.7000	0.7000	20.00	1.500	0.7000	5.000	0.7000	5.000
TI-S %	0.7000	0.7000	0.5000	0.1500	0.7000	0.7000	0.7000	0.7000	0.7000
MN-S	700.0	1000.	150.0	1000.	500.0	1500.	500.0	500.0	1000.
AG-S	V 0.5000	N 0.5000	0.7000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	100.0	200.0	150.0	150.0	70.00	200.0	150.0	50.00
BA-S	1500.	1000.	1500.	3000.	700.0	3000.	3000.	1000.	3000.
BF-S	1.500	1.500	1.500	1.000	2.000	2.000	3.000	1.500	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	50.00	7.000	10.00	50.00	20.00	10.00	30.00	20.00
CR-S	150.0	150.0	150.0	70.00	300.0	150.0	200.0	300.0	300.0
CU-S	30.00	70.00	20.00	30.00	150.0	30.00	30.00	150.0	50.00
LA-S	30.00	50.00	70.00	50.00	70.00	150.0	150.0	70.00	70.00
MO-S	L 5.000	5.000	N 5.000	N 5.000	10.00	N 5.000	N 5.000	N 5.000	10.00
NR-S	10.00	15.00	L 10.00	L 10.00	10.00	15.00	10.00	10.00	10.00
NI-S	100.0	150.0	20.00	30.00	150.0	100.0	50.00	150.0	150.0
PB-S	30.00	30.00	70.00	70.00	30.00	30.00	30.00	20.00	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	20.00	15.00	15.00	50.00	15.00	20.00	30.00	20.00
SN-S	H 10.00	N 10.00	V 10.00	N 10.00	N 10.00	H 10.00	H 10.00	N 10.00	H 10.00
SR-S	200.0	L 100.0	L 100.0	300.0	150.0	100.0	100.0	200.0	300.0
V-S	100.0	150.0	700.0	70.00	300.0	70.00	100.0	150.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	100.0	20.00	30.00	100.0	150.0	150.0	100.0	100.0
ZN-S	300.0	N 200.0	L 200.0	300.0	N 200.0	200.0	N 200.0	L 200.0	L 200.0
ZR-S	150.0	500.0	150.0	50.00	150.0	700.0	500.0	200.0	300.0
CU-AA	25.00	35.00	5.000	20.00	80.00	20.00	25.00	40.00	25.00
PB-AA	H 20.00	20.00	20.00	H 40.00	25.00	20.00	H 20.00	15.00	H 25.00
ZN-AA	200.0	55.00	25.00	140.0	45.00	120.0	60.00	55.00	60.00
AG-AA	H 0.5000	N 0.5000	N 0.5000	H 1.500	H 1.500	H 1.000	H 1.000	H 0.5000	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





FOLHELHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JA0069A	JM0002	JM0008C	JM0011B	JM0028B	JF0369A	JF0377	JA0142A	JA0142B
LATITUDE	0.2552E 05	0.2722F 05	0.2726F 05	0.2727F 05	0.2705F 05	0.2708E 05	0.2719F 05	0.2762E 05	0.2762F 05
LONGITUD	0.1428E 06	0.1409F 06	0.1410F 06	0.1410E 06	0.1434F 06	0.1411E 06	0.1410F 06	0.1414F 06	0.1414E 06
UTM-ABC	0.4262E 06	0.4834F 06	0.4820F 06	0.4820E 06	0.4775F 06	0.4793E 06	0.4826F 06	0.4709F 06	0.4709E 06
UTM-ORD	0.9213E 07	0.9164F 07	0.9163F 07	0.9163E 07	0.9159F 07	0.9169E 07	0.9165E 07	0.9152E 07	0.9152E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	10.00	20.00	15.00	10.00	15.00	15.00	15.00	15.00
MG-S %	2.000	2.000	2.000	5.000	5.000	2.000	2.000	3.000	3.000
CA-S %	3.000	7.000	2.000	2.000	20.00	2.000	1.500	7.000	7.000
TI-S %	0.7000	1.000	1.000	G 1.000	0.7000	1.000	G 1.000	1.000	1.000
MN-S	1000.	1000.	1500.	1000.	1500.	2000.	700.0	2000.	1500.
AG-S	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
P-S	150.0	50.00	150.0	150.0	100.0	200.0	200.0	150.0	200.0
BA-S	1000.	5000.	700.0	3000.	G 5000.	3000.	3000.	5000.	3000.
BF-S	3.000	2.000	3.000	2.000	2.000	3.000	1.500	2.000	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	30.00	30.00	100.0	20.00	50.00	50.00	30.00	50.00
CR-S	200.0	300.0	300.0	300.0	300.0	300.0	500.0	300.0	200.0
CU-S	150.0	30.00	200.0	50.00	70.00	150.0	100.0	150.0	150.0
LA-S	100.0	100.0	50.00	50.00	30.00	70.00	50.00	50.00	50.00
MO-S	7.000	L 5.000	7.000	5.000	L 5.000	N 5.000	7.000	L 5.000	L 5.000
NR-S	10.00	20.00	30.00	30.00	15.00	30.00	30.00	30.00	30.00
NI-S	150.0	150.0	150.0	200.0	150.0	300.0	200.0	200.0	150.0
PR-S	70.00	50.00	50.00	30.00	50.00	30.00	30.00	50.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	50.00	30.00	30.00	30.00	20.00	50.00	30.00	50.00	30.00
SN-S	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00
SR-S	300.0	200.0	200.0	500.0	500.0	150.0	150.0	150.0	100.0
V-S	200.0	150.0	200.0	200.0	150.0	300.0	200.0	200.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	100.0	50.00	70.00	50.00	70.00	100.0	100.0	70.00
ZN-S	L 200.0	200.0	300.0	1500.	1500.	300.0	200.0	200.0	200.0
ZR-S	150.0	300.0	200.0	300.0	300.0	300.0	1000.	500.0	300.0
CU-AA	50.00	30.00	55.00	25.00	35.00	55.00	40.00	60.00	70.00
PB-AA	H 30.00	H 30.00	25.00	25.00	H 30.00	20.00	15.00	25.00	20.00
ZN-AA	45.00	75.00	130.0	500.0	510.0	65.00	70.00	75.00	60.00
AG-AA	H 1.000	H 1.500	H 1.000	H 1.000	H 1.500	H 1.000	H 1.000	H 1.500	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	R 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	R 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	R 0.0	B 0.0	B 0.0
S-INS %	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS

A M O S T R A S

VARIAVEL	JA0150	JA0154A	JA0161	JA0170	JA0172	JA0174	JA0187	JA0200	JA0203
LATITUDE	0.2764E 05	0.2768F 05	0.2169F 05	0.2737E 05	0.2757F 05	0.2756F 05	0.2750E 05	0.2743E 05	0.2736E 05
LONGITUD	0.1413F 06	0.1414F 06	0.1413F 06	0.1414E 05	0.1415E 06	0.1415E 06	0.1419E 06	0.1419F 06	0.1420E 06
UTM-ABC	0.4738E 06	0.4699E 06	0.4712E 05	0.4704E 06	0.4674E 06	0.4669F 06	0.4527F 06	0.4554F 06	0.4524E 06
UTM-ORD	0.9151E 07	0.9150E 07	0.9334E 07	0.9169E 07	0.9154F 07	0.9154E 07	0.9156E 07	0.9158E 07	0.9160E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	15.00	15.00	15.00	10.00	15.00	15.00	10.00	15.00
MG-S %	3.000	3.000	3.000	2.000	1.500	2.000	5.000	2.000	2.000
CA-S %	2.000	1.500	G 20.00	2.000	0.7000	2.000	3.000	5.000	1.000
TI-S %	G 1.000	1.000	1.000	G 1.000	G 1.000	1.000	1.000	1.000	G 1.000
MN-S	2000.	5000.	5000.	700.0	300.0	3000.	G 5000.	1000.	1000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	200.0	100.0	70.00	100.0	50.00	100.0	100.0	100.0
BA-S	G 5000.	3000.	G 5000.	5000.	G 5000.	G 5000.	3000.	G 5000.	G 5000.
BF-S	2.000	3.000	1.500	1.500	2.000	3.000	1.500	3.000	2.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	V 20.00	N 20.00	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00
CO-S	30.00	100.0	30.00	30.00	20.00	100.0	50.00	20.00	70.00
CR-S	300.0	500.0	300.0	200.0	300.0	300.0	700.0	300.0	200.0
CU-S	70.00	200.0	70.00	50.00	50.00	100.0	100.0	15.00	150.0
LA-S	50.00	70.00	100.0	100.0	100.0	100.0	20.00	70.00	50.00
MO-S	V 5.000	L 5.000	N 5.000	10.00	L 5.000	5.000	7.000	N 5.000	N 5.000
NA-S	20.00	20.00	10.00	20.00	30.00	30.00	20.00	30.00	30.00
NI-S	150.0	200.0	100.0	100.0	150.0	200.0	300.0	100.0	150.0
NS-S	30.00	50.00	100.0	70.00	30.00	70.00	50.00	50.00	70.00
OB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
OC-S	H 30.00	50.00	20.00	H 30.00	H 50.00	50.00	30.00	H 30.00	H 20.00
ON-S	H 10.00	H 10.00	V 10.00	N 10.00	H 10.00	H 10.00	H 10.00	N 10.00	N 10.00
OR-S	100.0	150.0	500.0	300.0	150.0	150.0	300.0	300.0	150.0
OS-S	150.0	500.0	200.0	200.0	200.0	300.0	300.0	100.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	100.0	100.0	70.00	100.0	70.00	30.00	100.0	50.00
ZN-S	L 200.0	200.0	500.0	200.0	200.0	L 200.0	200.0	L 200.0	200.0
ZR-S	G 1000.	200.0	500.0	G 1000.	G 1000.	500.0	500.0	G 1000.	G 1000.
CU-AA	30.00	65.00	40.00	20.00	15.00	45.00	35.00	5.000	35.00
PB-AA	20.00	25.00	H 45.00	30.00	20.00	25.00	30.00	15.00	35.00
ZN-AA	70.00	50.00	180.0	65.00	45.00	60.00	95.00	35.00	55.00
AG-AA	H 1.000	H 1.000	H 1.500	H 0.5000	H 0.5000	H 0.5000	H 1.000	H 0.5000	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## FOLHELHOS E SILTITOS

VARIÁVEL	A M O S T R A S								
	JA0150	JA0154A	JA0161	JA0170	JA0172	JA0174	JA0187	JA0200	JA0203
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JA0265A	JA0275B	JA0276B	JA0276D	JA0289	JA0275A	JA0337A	JF0389B	JF0392A
LATITUDE	0.2727E 05	0.2742E 05	0.2745E 05	0.2745E 05	0.2763E 05	0.2742E 05	0.2772E 05	0.2776E 05	0.2755E 05
LONGITUD	0.1443E 06	0.1442E 06	0.1442E 06	0.1442E 06	0.1451E 06	0.1442E 06	0.1455E 06	0.1448E 06	0.1447E 06
UTM-ABC	0.3797E 06	0.3848E 06	0.3843E 06	0.3843E 06	0.3871E 06	0.3848E 06	0.3445E 06	0.3646E 06	0.3696E 06
UTM-ORD	0.9163E 07	0.9158E 07	0.9157E 07	0.9157E 07	0.9152E 07	0.9153E 07	0.9145E 07	0.9148E 07	0.9154E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	7.000	3.000	5.000	10.00	15.00	10.00	7.000	15.00
MG-S %	2.000	2.000	5.000	10.00	1.500	2.000	1.500	2.000	2.000
CA-S %	1.000	G 20.00	G 20.00	G 20.00	1.000	0.5000	3.000	3.000	5.000
TI-S %	0.7000	0.5000	0.2000	0.2000	G 1.000	1.000	0.5000	1.000	0.7000
MN-S	1000.	2000.	3000.	G 5000.	3000.	2000.	2000.	2000.	2000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-c	100.0	70.00	50.00	50.00	50.00	100.0	100.0	100.0	100.0
BA-S	3000.	1500.	G 5000.	G 5000.	2000.	2000.	5000.	5000.	G 5000.
BE-S	3.000	1.000	L 1.000	L 1.000	3.000	7.000	2.000	1.500	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	30.00	15.00	10.00	10.00	100.0	70.00	20.00	15.00	20.00
CR-S	200.0	150.0	100.0	100.0	200.0	300.0	150.0	150.0	200.0
CU-S	30.00	15.00	50.00	20.00	70.00	100.0	70.00	30.00	20.00
LA-S	70.00	70.00	50.00	50.00	70.00	100.0	30.00	70.00	50.00
MO-S	N 5.000	L 5.000	7.000	50.00	N 5.000	N 5.000	7.000	N 5.000	L 5.000
NB-S	20.00	L 10.00	L 10.00	L 10.00	50.00	20.00	15.00	20.00	20.00
NI-S	200.0	50.00	50.00	30.00	150.0	300.0	100.0	100.0	150.0
PR-S	30.00	20.00	50.00	30.00	50.00	30.00	100.0	300.0	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	30.00	15.00	7.000	7.000	30.00	30.00	20.00	30.00	20.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	150.0	1000.	2000.	1500.	150.0	150.0	150.0	200.0	100.0
V-S	200.0	100.0	500.0	50.00	150.0	200.0	150.0	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	70.00	15.00	20.00	100.0	200.0	50.00	50.00	50.00
ZN-S	300.0	L 200.0	200.0	N 200.0	L 200.0	200.0	500.0	300.0	L 200.0
ZR-S	200.0	200.0	100.0	70.00	700.0	200.0	500.0	700.0	300.0
CU-AA	25.00	15.00	70.00	20.00	45.00	60.00	60.00	25.00	25.00
PR-AA	25.00	H 30.00	50.00	50.00	35.00	35.00	60.00	130.0	25.00
ZN-AA	65.00	35.00	65.00	20.00	35.00	90.00	210.0	140.0	65.00
AG-AA	H 1.000	H 2.000	H 2.500	H 2.500	H 1.000	H 1.000	H 1.000	H 1.500	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A S

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHFLHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JF0374B	JF0413B	JF0413J	JF0414A	JF0393B	JF0289A	JF0389G	JF0390B	JF0390E
LATITUDF	0.2742E 05	0.2758E 05	0.2758E 05	0.2782E 05	0.2775E 05	0.2776E 05	0.2776E 05	0.2777E 05	0.2777E 05
LONGITJD	0.1446E 06	0.1458E 06	0.1458E 06	0.1457E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1449E 06	0.1449E 06
UTM-ABC	0.3725E 06	0.3331E 06	0.3331E 06	0.3385E 06	0.3657E 06	0.3646E 06	0.3646E 06	0.3634E 06	0.3634E 06
UTM-ORD	0.9158E 07	0.9153E 07	0.9153E 07	0.9145E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9147E 07	0.9147E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	7.000	7.000	15.00	15.00	15.00	15.00	5.000	7.000
MG-S %	2.000	2.000	1.500	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	20.00	G 20.00	G 20.00	5.000	3.000	10.00	5.000	3.000	20.00
TI-S %	1.000	0.7000	0.7000	1.000	1.000	1.000	1.000	1.000	0.7000
MN-S	5000.	5000.	3000.	1500.	2000.	2000.	2000.	1500.	1000.
AG-S	V 0.5000	0.7000	0.7000	0.5000	N 0.5000	V 0.5000	V 0.5000	0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	70.00	50.00	100.0	100.0	100.0	150.0	100.0	500.0
BA-S	5000.	G 5000.	G 5000.	5000.	5000.	2000.	2000.	G 5000.	1000.
BE-S	1.500	2.000	1.500	3.000	2.000	2.000	3.000	2.000	3.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	20.00	20.00	50.00	30.00	20.00	30.00	15.00	20.00
CR-S	200.0	150.0	150.0	300.0	300.0	200.0	200.0	150.0	200.0
CJ-S	20.00	50.00	70.00	30.00	30.00	30.00	200.0	70.00	200.0
LA-S	70.00	70.00	70.00	100.0	70.00	70.00	50.00	70.00	50.00
MO-S	N 5.000	L 5.000	N 5.000	N 5.000	N 5.000	N 5.000	20.00	N 5.000	7.000
NH-S	20.00	10.00	15.00	30.00	20.00	20.00	15.00	50.00	15.00
NI-S	100.0	150.0	100.0	200.0	200.0	200.0	200.0	70.00	150.0
PH-S	50.00	70.00	70.00	30.00	20.00	20.00	70.00	100.0	100.0
SB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	15.00	30.00	30.00	30.00	30.00	20.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	H 10.00	H 10.00	H 10.00	H 10.00	N 10.00	H 10.00
SR-S	300.0	300.0	500.0	200.0	200.0	200.0	700.0	200.0	500.0
V-S	150.0	200.0	150.0	300.0	200.0	200.0	500.0	100.0	300.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	70.00	70.00	70.00	50.00	70.00	50.00	70.00	30.00
ZN-S	L 200.0	300.0	L 200.0	L 200.0	L 200.0	L 200.0	500.0	200.0	300.0
ZR-S	1000.	200.0	300.0	300.0	300.0	200.0	200.0	500.0	150.0
CU-AA	15.00	40.00	35.00	25.00	25.00	25.00	110.0	55.00	60.00
PB-AA	40.00	H 45.00	H 40.00	30.00	25.00	25.00	50.00	60.00	60.00
ZN-AA	45.00	110.0	45.00	55.00	70.00	65.00	140.0	50.00	95.00
AG-AA	H 1.500	H 2.000	H 2.500	H 1.500	H 1.500	H 1.500	H 2.000	H 1.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	P 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	P 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

## FOLHELHOS E SILTIYOS

## A M O S T R A S

VARIABLE	JF0394B	JF0413B	JF0413J	JF0414A	JF0338B	JF0389A	JF0389G	JF0390B	JF0390F
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P CRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B C.0	B 0.0







FOLHELHOS E SIMITOS

A M O S T R A S

VARIÁVEL	JF0413H	JF0388A	JF0390A	JF0391B	JF0394A	JA0525A	JA0411A	JA0457A	JM0340
LATITUDE	0.2758E 05	0.2775E 05	0.2777E 05	0.2774E 05	0.2762E 05	0.2665E 05	0.2780E 05	0.2874E 05	0.2758E 05
LONGITUD	0.1458E 06	0.1448E 06	0.1449E 06	0.1447E 06	0.1445E 06	0.1465E 06	0.1460E 06	0.1458E 06	0.1467E 06
UTH-ABC	0.3331E 06	0.3657E 06	0.3634E 06	0.3693E 06	0.3725E 06	0.3116E 06	0.3280E 06	0.3362E 06	0.3063E 06
UTM-ORD	0.9153E 07	0.9148E 07	0.9147E 07	0.9149E 07	0.9152E 07	0.9182E 07	0.9146E 07	0.9117E 07	0.9153E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	10.00	7.000	10.00	7.000	7.000	3.000	10.00	10.00
MG-S %	1.500	1.500	1.500	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	1.500	1.500	1.500	3.000	1.000	2.000	5.000	2.000	1.500
TI-S %	0.5000	0.7000	0.5000	0.7000	1.000	0.5000	0.5000	0.7000	0.5000
MN-S	500.0	1000.	500.0	2000.	700.0	700.0	1000.	500.0	2000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	2.000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	50.00	20.00	100.0	100.0	50.00	70.00	100.0	50.00
BA-S	700.0	2000.	500.0	1500.	1000.	700.0	1500.	1000.	500.0
BE-S	3.000	2.000	1.000	2.000	2.000	2.000	L 1.000	2.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	50.00	7.000	30.00	50.00	50.00	15.00	15.00	50.00
CR-S	150.0	200.0	100.0	150.0	200.0	150.0	100.0	100.0	100.0
CU-S	50.00	50.00	30.00	30.00	150.0	150.0	50.00	70.00	100.0
LA-S	70.00	100.0	50.00	70.00	100.0	150.0	50.00	100.0	50.00
MO-S	L 5.000	5.000	N 5.000	N 5.000	L 5.000	N 5.000	5.000	L 5.000	N 5.000
NB-S	20.00	20.00	L 10.00	15.00	20.00	10.00	15.00	20.00	20.00
NI-S	50.00	200.0	50.00	150.0	200.0	70.00	50.00	70.00	70.00
PD-S	30.00	70.00	30.00	30.00	50.00	50.00	20.00	50.00	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	70.00	15.00	30.00	50.00	20.00	15.00	20.00	20.00
SY-S	N 10.00	L 10.00	N 10.00	L 10.00	10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	300.0	200.0	L 100.0	200.0	150.0	100.0	100.0	200.0	N 100.0
V-S	200.0	150.0	100.0	150.0	150.0	100.0	100.0	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	70.00	50.00	150.0	100.0	100.0	30.00	50.00	30.00
ZN-S	L 200.0	300.0	N 200.0	200.0	300.0	200.0	N 200.0	L 200.0	L 200.0
ZR-S	150.0	700.0	100.0	700.0	700.0	200.0	500.0	200.0	150.0
CU-AA	30.00	55.00	25.00	20.00	100.0	100.0	25.00	40.00	70.00
PB-AA	20.00	50.00	25.00	25.00	30.00	H 25.00	H 15.00	H 30.00	H 30.00
ZN-AA	35.00	150.0	75.00	70.00	70.00	110.0	35.00	50.00	55.00
AG-AA	H 0.5000	H 1.000	H 1.500	H 1.500	H 1.000	H 0.5000	H 0.5000	H 1.000	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	800.0	500.0	700.0	700.0	1300.	600.0	800.0	350.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S F A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JA0354D	JA0354E	JA0355A	JA0355D	JA0372A	JA0374B	JA0405	JA0456B	JA0456C
LATITUDE	0.2759E 05	0.2769F 05	0.2770F 05	0.2770F 05	0.2738F 05	0.2737E 05	0.2756F 05	0.2867F 05	0.2867F 05
LONGITUDE	0.1460E 06	0.1460E 06	0.1460F 06	0.1460E 06	0.1455F 06	0.1455E 06	0.1457E 06	0.1460E 06	0.1460E 06
UTM-ABC	0.3294E 06	0.3294F 06	0.3279F 06	0.3279F 06	0.3450E 06	0.3441F 06	0.3376E 06	0.3283F 06	0.3283F 06
UTM-ORD	0.9150E 07	0.9150E 07	0.9149E 07	0.9149E 07	0.9159E 07	0.9159E 07	0.9154E 07	0.9119E 07	0.9119E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	5.000	7.000	5.000	5.000	10.00	5.000	5.000	10.00	10.00
MG-S %	1.000	0.7000	1.500	1.000	1.500	1.500	2.000	2.000	2.000
CA-S %	5.000	2.000	7.000	3.000	0.3000	0.5000	1.500	1.000	1.000
TI-S %	1.000	1.000	0.5000	0.5000	1.000	0.5000	0.5000	1.000	1.000
MN-S	1000.	300.0	2000.	1000.	700.0	2000.	500.0	700.0	500.0
AG-S	V 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	70.00
BA-S	2000.	5000.	2000.	2000.	5000.	700.0	2000.	700.0	700.0
BE-S	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
BI-S	V 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CI-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	20.00	10.00	15.00	50.00	50.00	15.00	20.00	20.00
CR-S	100.0	100.0	100.0	100.0	150.0	150.0	100.0	200.0	150.0
CU-S	70.00	70.00	20.00	70.00	100.0	70.00	50.00	100.0	100.0
LA-S	50.00	50.00	50.00	50.00	100.0	70.00	70.00	100.0	100.0
MD-S	20.00	10.00	V 5.000	20.00	N 5.000	N 5.000	20.00	N 5.000	N 5.000
NR-S	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NI-S	70.00	70.00	50.00	50.00	100.0	70.00	50.00	70.00	70.00
PI-S	70.00	50.00	30.00	50.00	50.00	50.00	100.0	50.00	30.00
SB-S	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	15.00	15.00	15.00	20.00	20.00	10.00	20.00	20.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	150.0	200.0	N 100.0	N 100.0	100.0	N 100.0	N 100.0
V-S	200.0	200.0	100.0	200.0	150.0	150.0	100.0	200.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	50.00	30.00	30.00	100.0	50.00	30.00	50.00	50.00
ZN-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	200.0
ZR-S	500.0	G 1000.	300.0	300.0	200.0	150.0	500.0	300.0	300.0
CI-AA	45.00	25.00	15.00	40.00	50.00	45.00	20.00	55.00	55.00
PI-AA	15.00	20.00	5.000	15.00	20.00	20.00	45.00	10.00	10.00
ZN-AA	50.00	45.00	35.00	60.00	85.00	60.00	50.00	45.00	45.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHINHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JA0460A	JA0469A	JA0515B	JA0526A	JA0355C	JA0373A	JA0373B	JA0385B	JA0418A
LATITUDE	0.2889E 05	0.2799E 05	0.2592E 05	0.2664E 05	0.2779E 05	0.2737E 05	0.2737E 05	0.2736E 05	0.2783E 05
LONGITJD	0.1466E 06	0.1468E 06	0.1441E 06	0.1465E 06	0.1460E 06	0.1455E 06	0.1455E 06	0.1455E 06	0.1461E 06
UTM-ABC	0.3115E 06	0.3053E 06	0.3865E 06	0.3116E 06	0.3279E 06	0.3448E 06	0.3448E 06	0.3447E 06	0.3256E 06
UTM-ORD	0.7113E 07	0.9140E 07	0.9204E 07	0.9182E 07	0.9149E 07	0.9159E 07	0.9159E 07	0.9160E 07	0.9145E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	15.00	3.000	15.00	5.000	10.00	3.000	15.00	7.000
MG-S %	2.000	2.000	1.500	1.500	1.500	1.500	1.000	1.500	2.000
CA-S %	2.000	15.00	1.000	10.00	3.000	3.000	1.500	1.500	5.000
TI-S %	0.7000	0.5000	0.3000	0.3000	0.5000	0.3000	0.7000	0.3000	0.5000
MV-S	500.0	700.0	1500.	1500.	1000.	5000.	150.0	2000.	1000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-C	70.00	100.0	50.00	50.00	50.00	50.00	70.00	20.00	50.00
RA-S	3000.	G 5000.	G 5000.	700.0	700.0	700.0	1000.	5000.	1000.
BE-S	1.500	1.000	2.000	1.000	1.500	2.000	1.500	2.000	1.500
RI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	15.00	15.00	150.0	30.00	30.00	10.00	30.00	20.00
CR-S	200.0	100.0	70.00	100.0	100.0	100.0	150.0	50.00	100.0
CU-S	100.0	50.00	20.00	200.0	70.00	150.0	100.0	100.0	70.00
LA-S	50.00	50.00	20.00	100.0	50.00	100.0	100.0	50.00	70.00
MD-S	70.00	20.00	N 5.000	20.00	5.000	20.00	50.00	20.00	5.000
ND-S	15.00	15.00	15.00	10.00	20.00	10.00	20.00	20.00	20.00
NI-S	70.00	70.00	50.00	200.0	70.00	70.00	70.00	70.00	70.00
PB-S	100.0	30.00	50.00	30.00	30.00	30.00	150.0	500.0	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	10.00	20.00	15.00	20.00	15.00	15.00	15.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	200.0	N 100.0	200.0	200.0	1000.	N 100.0	100.0
V-S	200.0	100.0	50.00	100.0	150.0	150.0	1000.	150.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	50.00	50.00	50.00	30.00	50.00	50.00	50.00	50.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	150.0	200.0	500.0	150.0	150.0	150.0	300.0	1000.	500.0
CU-AA	50.00	20.00	10.00	130.0	45.00	130.0	100.0	60.00	40.00
PB-AA	30.00	10.00	15.00	15.00	10.00	20.00	70.00	340.0	20.00
ZN-AA	50.00	50.00	25.00	230.0	50.00	40.00	20.00	200.0	55.00
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HQ-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS

A M O S T R A S

VARIAVEL	JA0418B	JA0463J	JA0527B	JA0364C	JA0374A	JA0411B	JA0418C	JA0469B	JA0486B
LATITUDE	0.2783E 05	0.2878F 05	0.2664F 05	0.2755F 05	0.2737F 05	0.2780E 05	0.2783F 05	0.2799F 05	0.2819F 05
LONGITUD	0.1461E 06	0.1468F 06	0.1465F 06	0.1457E 06	0.1455E 06	0.1460E 06	0.1461E 06	0.1468F 06	0.1464E 06
UTM-ABC	0.3256E 06	0.3030E 06	0.3115F 06	0.3375E 06	0.3441F 06	0.3280F 06	0.3256F 06	0.3053F 06	0.3173E 06
UTM-ORD	0.9145E 07	0.9116E 07	0.9182F 07	0.9151F 07	0.9159E 07	0.9146E 07	0.9145F 07	0.9140E 07	0.9134E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	7.000	7.000	5.000	7.000	5.000	7.000	5.000	5.000
MG-S %	2.000	2.000	1.500	2.000	2.000	2.000	2.000	2.000	10.00
CA-S %	10.00	10.00	3.000	5.000	1.000	3.000	1.500	10.00	20.00
TI-S %	0.5000	0.5000	1.000	0.5000	0.5000	0.7000	0.7000	0.7000	0.1000E 00
MV-S	7000.	1000.	500.0	700.0	5000.	1000.	500.0	1000.	C 5000.
AG-S	V 0.5000	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	50.00	70.00	70.00	100.0	70.00	100.0	50.00
BA-S	700.0	G 5000.	1000.	5000.	700.0	1500.	1000.	1500.	200.0
BE-S	1.000	1.500	1.000	1.500	2.000	1.000	1.000	1.000	1.000
BI-S	N 10.00	L 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	50.00	20.00	20.00	200.0	20.00	20.00	30.00	10.00
CR-S	150.0	150.0	200.0	100.0	200.0	150.0	150.0	200.0	70.00
CU-S	20.00	200.0	100.0	70.00	100.0	70.00	50.00	50.00	70.00
LA-S	70.00	30.00	100.0	70.00	70.00	70.00	70.00	100.0	20.00
MO-S	N 5.000	L 5.000	20.00	10.00	N 5.000	7.000	L 5.000	L 5.000	5.000
NB-S	20.00	15.00	20.00	20.00	20.00	20.00	20.00	15.00	L 10.00
NI-S	50.00	70.00	70.00	50.00	100.0	70.00	70.00	70.00	20.00
PB-S	20.00	100.0	50.00	50.00	30.00	50.00	20.00	30.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	15.00	20.00	15.00	20.00	15.00	15.00	20.00	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	700.0	100.0	100.0	100.0	100.0	100.0	100.0	200.0
V-S	100.0	150.0	100.0	150.0	150.0	100.0	150.0	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	30.00	50.00	50.00	70.00	50.00	50.00	50.00	20.00
ZN-S	N 200.0	2000.	N 200.0	N 200.0	200.0	N 200.0	N 200.0	L 200.0	300.0
ZR-S	200.0	100.0	500.0	1000.	200.0	500.0	500.0	200.0	30.00
CU-AA	10.00	180.0	50.00	30.00	70.00	35.00	20.00	25.00	55.00
PB-AA	10.00	95.00	25.00	15.00	15.00	15.00	L 5.000	10.00	10.00
ZN-AA	40.00	G 1000.	60.00	55.00	100.0	55.00	45.00	50.00	310.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS

A M O S T R A S

VARIAVEL	JF0469	JM0300	JM0339A	JM0339B	JM0339D	JF0438	JF0441	JF0488	JF0489
LATITUDE	0.2726E 05	0.2753E 05	0.2759E 05	0.2759E 05	0.2759E 05	0.2734E 05	0.2734E 05	0.2750E 05	0.2749E 05
LONGITUD	0.1467E 06	0.1466E 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1468E 06	0.1468E 06
UTM-ARC	0.3073E 06	0.3104E 06	0.3064E 06	0.3064E 06	0.3064E 06	0.3078E 06	0.3078E 06	0.3033E 06	0.3035E 06
UTM-ORD	0.9163E 07	0.9154E 07	0.9153E 07	0.9153E 07	0.9153E 07	0.9160E 07	0.9160E 07	0.9155E 07	0.9155E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	10.00	7.000	7.000	7.000	10.00	10.00	7.000	5.000
MG-S %	2.000	2.000	1.500	1.500	1.500	2.000	2.000	1.500	0.5000E-01
CA-S %	1.500	1.000	15.00	10.00	1.500	1.000	2.000	0.5000	L 0.5000F-01
TI-S %	1.000	0.5000	0.3000	0.2000	0.5000	0.5000	0.3000	1.000	1.000
MN-S	1500.	500.0	5000.	5000.	1000.	2000.	700.0	1000.	200.0
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	V 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	20.00	20.00	20.00	50.00	50.00	50.00	50.00
BA-S	1000.	500.0	1000.	700.0	200.0	500.0	500.0	700.0	300.0
BE-S	1.500	1.000	1.000	1.500	1.500	2.000	1.500	1.000	L 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CD-S	50.00	20.00	30.00	20.00	30.00	100.0	20.00	30.00	5.000
CR-S	150.0	100.0	150.0	100.0	200.0	100.0	100.0	70.00	70.00
CU-S	100.0	70.00	70.00	70.00	70.00	100.0	200.0	70.00	20.00
LA-S	100.0	50.00	100.0	100.0	70.00	50.00	100.0	100.0	100.0
MO-S	N 5.000	N 5.000	L 5.000	L 5.000	N 5.000	N 5.000	50.00	N 5.000	L 5.000
NA-S	30.00	20.00	10.00	10.00	15.00	20.00	15.00	20.00	20.00
NI-S	70.00	70.00	70.00	70.00	70.00	100.0	100.0	70.00	15.00
PB-S	100.0	30.00	30.00	50.00	50.00	50.00	30.00	50.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	20.00	15.00	15.00	20.00	20.00	20.00	15.00	15.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	N 100.0	200.0	200.0	N 100.0	100.0	N 100.0	N 100.0	100.0
V-S	100.0	150.0	150.0	150.0	150.0	200.0	200.0	100.0	100.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	30.00	70.00	50.00	30.00	30.00	50.00	30.00	30.00
ZN-S	L 200.0	N 200.0	L 200.0	L 200.0	L 200.0	L 200.0	500.0	N 200.0	N 200.0
ZR-S	300.0	150.0	100.0	100.0	100.0	150.0	100.0	300.0	1000.
CIJ-AA	45.00	45.00	50.00	55.00	40.00	55.00	120.0	40.00	10.00
PB-AA	25.00	10.00	20.00	25.00	15.00	15.00	15.00	25.00	5.000
ZN-AA	55.00	30.00	140.0	140.0	100.0	65.00	280.0	55.00	10.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	R 0.0
TE-AA	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	R 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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PROJETO - SANTANA

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FOLHELHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JF0524	JF0071A	JF0159C	JA0059A
LATITUDE	0.2744E 05	0.2612E 05	0.2650E 05	0.2582E 05
LONGITUD	0.1456E 06	0.1420E 06	0.1416E 06	0.1430E 06
UTM-ABC	0.3096E 06	0.4496E 06	0.4646E 06	0.4193E 06
UTM-ORD	0.9157E 07	0.9198E 07	0.9186E 07	0.9207E 07
M. C.	39.00	39.00	39.00	39.00
FE-S %	7.000	5.000	7.000	10.00
MG-S %	1.500	1.500	1.500	3.000
CA-S %	1.000	5.000	2.000	1.500
TI-S %	0.5000	0.5000	0.5000	0.7000
MN-S	700.0	700.0	700.0	200.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	20.00	100.0	50.00
BA-S	700.0	700.0	700.0	700.0
BE-S	1.500	1.500	1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	30.00	15.00	30.00
CR-S	100.0	50.00	100.0	200.0
CU-S	70.00	30.00	100.0	100.0
LA-S	100.0	50.00	50.00	100.0
MO-S	N 5.000	5.000	L 5.000	N 5.000
NB-S	15.00	15.00	15.00	20.00
NI-S	50.00	70.00	50.00	70.00
PB-S	50.00	100.0	100.0	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	5.000	10.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	100.0	100.0
V-S	200.0	50.00	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	50.00	30.00	50.00
ZN-S	L 200.0	N 200.0	N 200.0	N 200.0
ZR-S	100.0	500.0	300.0	200.0
CU-AA	45.00	15.00	85.00	50.00
PE-AA	15.00	45.00	45.00	15.00
ZN-AA	45.00	15.00	30.00	75.00
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	R 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	R 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0
TF-AA	B 0.0	R 0.0	R 0.0	R 0.0
AU-AA	B 0.0	R 0.0	R 0.0	R 0.0
TI-COL %	B 0.0	R 0.0	R 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	900.0	700.0	500.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0

FOLHFLHOS E SILTITOS

A M O S T R A S

VARIÁVEL	JF0524	JF0071A	JF0159C	JA0059A
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0
AU-P CRG	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0

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CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0091	JF0071C	JF0065	JF0026A	JF0213C	JA0098	JF0282A	JA0012B	JA0020
LATITUDE	0.2570E 05	0.2612E 05	0.2651E 05	0.2663E 05	0.2681E 05	0.2553F 05	0.2573F 05	0.2561F 05	0.2581E 05
LONGITUD	0.1430E 06	0.1420E 06	0.1418E 06	0.1403E 06	0.1408E 06	0.1429F 06	0.1432E 06	0.1406E 06	0.1422E 06
UTM-ABC	0.4209E 06	0.4496E 06	0.4570E 06	0.4842E 06	0.4882E 06	0.4224E 06	0.4138E 06	0.4925E 06	0.4459E 06
UTM-GRD	0.9211E 07	0.9198E 07	0.9186E 07	0.9193F 07	0.9177F 07	0.9216E 07	0.9210E 07	0.9214E 07	0.9208E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	2.000	20.00	5.000	1.500	3.000	1.000	7.000	20.00
MG-S %	1.500	1.500	1.000	0.5000	1.500	1.500	1.500	0.5000	1.000
CA-S %	20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.2000	0.1000E 00	0.5000E-01	0.1000E-01	0.1500	0.1000E 00	0.5000E-01	0.1000E 00	0.1500
MN-S	1500.	1500.	G 5000.	2000.	3000.	G 5000.	G 5000.	G 5000.	G 5000.
AG-S	N 0.5000	N 0.5000	7.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	2.000
AS-S	N 200.0	V 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	100.0	N 10.00	N 10.00	100.0	20.00	N 10.00	N 10.00	N 10.00
BA-S	500.0	700.0	300.0	150.0	700.0	200.0	70.00	1000.	G 5000.
BE-S	1.500	V 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	N 10.00	V 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00	30.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	5.000	50.00	10.00	7.000	7.000	L 5.000	5.000	30.00
CR-S	70.00	L 10.00	V 10.00	30.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CU-S	100.0	50.00	300.0	70.00	100.0	30.00	150.0	20.00	150.0
EA-S	50.00	L 20.00	N 20.00	N 20.00	L 20.00	L 20.00	N 20.00	L 20.00	L 20.00
MD-S	30.00	15.00	150.0	50.00	10.00	30.00	10.00	50.00	30.00
NB-S	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00
NI-S	50.00	15.00	50.00	15.00	20.00	10.00	7.000	20.00	20.00
PH-S	70.00	30.00	500.0	500.0	30.00	200.0	70.00	70.00	300.0
SP-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0
SC-S	15.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	3000.	500.0	300.0	3000.	1000.	700.0	300.0	2000.
V-S	100.0	50.00	70.00	50.00	70.00	70.00	50.00	100.0	50.00
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	V 50.00	N 50.00
Y-S	30.00	N 10.00	10.00	N 10.00	10.00	10.00	N 10.00	20.00	15.00
ZN-S	L 200.0	500.0	2000.	N 200.0	L 200.0	1500.	200.0	700.0	1000.
ZR-S	30.00	20.00	10.00	10.00	70.00	L 10.00	N 10.00	30.00	L 10.00
SI02 T.%	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 R%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	B 0.0	0.7000	0.8000	0.7000	0.7000	1.000	1.400	1.000	1.300
CA0-Q %	B 0.0	49.70	45.10	52.80	48.40	53.20	53.50	51.60	46.30
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	0.7000E-01	0.1300	0.8000E-01	0.1200	0.2300	0.5000E-01	0.2500	0.1600
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0091	JF0071C	JF0065	JF0026A	JF0213C	JA0098	JF0282A	JA0012B	JA0020
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB275-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
YN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG %	B 0.0	42.10	40.10	42.90	41.70	42.70	43.10	41.70	39.60
MAT.VCL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-C %	B 0.0	1.700	7.800	2.500	1.500	2.000	1.000	3.800	9.700
R.INSOL.	B 0.0	5.100	4.700	0.7000	6.900	0.7000	1.000	0.9000	1.800
VB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	50.00	35.00	400.0	65.00	55.00	35.00	130.0	20.00	95.00
PB-AA	H 40.00	H 60.00	170.0	160.0	H 55.00	95.00	80.00	75.00	160.0
ZN-AA	100.0	270.0	G 1000.	10.00	120.0	930.0	170.0	500.0	650.0
AG-AA	H 2.000	H 3.500	H 4.000	H 3.500	H 3.500	H 3.500	H 4.000	H 3.500	H 3.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCV-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FIN INS	B 0.0	700.0	170.0	800.0	700.0	1400.	300.0	375.0	450.0





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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0047	JF0005	JF0026B	JF0105	JA0048A	JA0144A	JF0339	JM0006	JM0010
I ATITUDE	0.2569E 05	0.2604E 05	0.2660E 05	0.2638E 05	0.2568E 05	0.2763E 05	0.2733E 05	0.2723E 05	0.2728E 05
LONGITUD	0.1427E 06	0.1420E 06	0.1409E 06	0.1420E 06	0.1427E 06	0.1414E 06	0.1412E 06	0.1409E 06	0.1410E 06
UTM-ABC	0.4303E 06	0.4514E 06	0.4842E 06	0.4515E 06	0.4304E 06	0.4702E 06	0.4758E 06	0.4838E 06	0.4820E 06
UTM-ORD	0.9211E 07	0.9200E 07	0.9183E 07	0.9190E 07	0.9211E 07	0.9152E 07	0.9161E 07	0.9164E 07	0.9163E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	10.00	20.00	2.000	2.000	2.000	20.00	2.000	5.000
MG-S %	1.000	10.00	1.000	2.000	2.000	1.500	1.500	1.500	1.500
CA-S %	G 20.00	G 20.00	G 20.00	20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.5000E-01	0.2000E-01	0.2000E-02	0.7000	0.7000	0.2000	0.1000E 00	0.3000E-01	0.1000E 00
MN-S	G 5000.	G 5000.	G 5000.	2000.	G 5000.	G 5000.	G 5000.	5000.	5000.
AG-S	3.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	5.000	N 0.5000	0.7000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	L 10.00	L 10.00	N 10.00	50.00	50.00	10.00	100.0	L 10.00	50.00
BA-S	3000.	3000.	30.00	3000.	1000.	300.0	700.0	G 5000.	G 5000.
BE-S	N 1.000	N 1.000	N 1.000	1.000	L 1.000	L 1.000	L 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CE-S	10.00	5.000	5.000	5.000	5.000	7.000	20.00	10.00	50.00
CR-S	10.00	10.00	N 10.00	70.00	70.00	50.00	20.00	20.00	50.00
CU-S	500.0	30.00	70.00	7.000	15.00	50.00	700.0	30.00	50.00
LA-S	N 20.00	N 20.00	N 20.00	50.00	70.00	20.00	20.00	20.00	20.00
MA-S	20.00	15.00	50.00	N 5.000	7.000	7.000	50.00	50.00	20.00
NB-S	L 10.00	L 10.00	N 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	N 10.00
NI-S	30.00	10.00	7.000	20.00	20.00	15.00	30.00	20.00	30.00
PB-S	700.0	50.00	1000.	50.00	50.00	200.0	1000.	100.0	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	7.000	7.000	5.000	L 5.000	N 5.000	L 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	500.0	300.0	500.0	700.0	1000.	700.0	2000.
V-S	100.0	70.00	50.00	30.00	50.00	100.0	100.0	100.0	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	N 10.00	N 10.00	10.00	50.00	100.0	10.00	10.00	L 10.00	10.00
ZN-S	1000.	L 200.0	N 200.0	N 200.0	N 200.0	500.0	1500.	500.0	500.0
ZR-S	30.00	N 10.00	100.0	200.0	200.0	100.0	20.00	L 10.00	100.0
S102 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	0.9000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1.200	1.100
CAO-Q %	39.90	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	51.10	48.50
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TIO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FF203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	0.2800	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	C:5000E-01	0:1000E 00
MNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0047	JF0005	JF0026R	JF0105	JA0048A	JA0144A	JF0339	JM0006	JM0010
MND-Q %	B 0.0	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR273-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
WD3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SM02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FCG%	33.20	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	41.40	41.10
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	3.700	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1.200	2.900
R.INSCL.	21.90	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	3.300	5.800
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	410.0	20.00	35.00	5.000	10.00	45.00	270.0	25.00	35.00
PB-AA	200.0	H 50.00	320.0	H 20.00	H 30.00	95.00	170.0	70.00	H 50.00
7N-AA	490.0	150.0	35.00	35.00	10.00	190.0	760.0	280.0	280.0
AG-AA	H 3.000	H 2.500	H 3.000	H 1.000	H 2.000	H 3.500	H 3.500	H 4.000	H 3.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	H 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	0.1000E-01	L 0.1000F-01	0.6000E-01	0.4000E-01	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	325.0	1700.	1700.	800.0	500.0	B 0.0	B 0.0	150.0	500.0

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CENTRO DE CUSTO - 1523.310

## CALCARIOS CALCARENITOS E MARGAS

## A M O S T R A S

VARIÁVEL	JA0047	JF0005	JF0026B	JF0105	JA0048A	JA0144A	JF0339	JM0006	JM0010
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JM0011	JF0339A	JF0363	JF0377A	JA0157	JA0168E	JA0182	JA0183	JA0353
LATITUDE	0.2727E 05	0.2733F 05	0.2733E 05	0.2719E 05	0.2769E 05	0.2737F 05	0.2745E 05	0.2745F 05	0.2762E 05
LGNGITUD	0.1410E 06	0.1412E 06	0.1410E 06	0.1410E 06	0.1414E 06	0.1414E 06	0.1419E 06	0.1419F 06	0.1457E 06
UTM-ABC	0.4320E 06	0.4758E 06	0.4814E 06	0.4826E 06	0.4588E 06	0.4700E 06	0.4526E 06	0.4533E 06	0.3372E 06
UTM-ORD	0.9153E 07	0.9161E 07	0.9161E 07	0.9155E 07	0.9150F 07	0.9160E 07	0.9157E 07	0.9157E 07	0.9152E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	2.000	0.7000	5.000	1.500	20.00	10.00	5.000	3.000	1.300
MG-S %	1.000	1.500	1.000	1.500	1.000	1.500	5.000	1.000	0.7000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.7000E-01	0.7000E-01	0.7000E-01	0.7000E-01	0.1000E 00	0.5000	0.5000E-01	0.1000E 00	0.1500
MN-S	G 5000.	3000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.7000	2.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	150.0	10.00	L 10.00	10.00	20.00	70.00	L 10.00	L 10.00
BA-S	300.0	700.0	2000.	G 5000.	1000.	2000.	700.0	G 5000.	5000.
BE-S	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	2.000	N 1.000	N 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	H 50.00
CO-S	15.00	N 5.000	10.00	7.000	100.0	30.00	10.00	100.0	5.000
CR-S	30.00	30.00	30.00	20.00	50.00	200.0	30.00	50.00	70.00
CU-S	150.0	50.00	100.0	30.00	200.0	50.00	100.0	200.0	20.00
LA-S	20.00	20.00	20.00	20.00	20.00	100.0	20.00	20.00	30.00
MO-S	L 5.000	L 5.000	15.00	15.00	200.0	15.00	70.00	20.00	50.00
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00	L 10.00	L 10.00	L 10.00
NI-S	15.00	10.00	30.00	20.00	50.00	100.0	30.00	30.00	30.00
PR-S	100.0	20.00	150.0	150.0	300.0	50.00	100.0	500.0	70.00
SR-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	L 5.000	N 5.000	L 5.000	20.00	N 5.000	L 5.000	L 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	300.0	2000.	500.0	1000.	500.0	300.0	300.0	500.0	200.0
V-S	100.0	50.00	50.00	150.0	200.0	150.0	100.0	100.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	10.00	10.00	10.00	20.00	70.00	L 10.00	10.00	30.00
ZN-S	700.0	300.0	1000.	300.0	3000.	L 200.0	500.0	500.0	L 200.0
ZR-S	50.00	50.00	30.00	30.00	30.00	150.0	20.00	50.00	50.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	1.300	0.8000	1.200	1.900	0.6000	1.400	3.000	1.100	B 0.0
CA0-Q %	51.10	50.30	50.60	48.30	48.10	39.60	42.20	50.70	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
T102-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-0%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	0.8000E-01	L 0.5000E-01	0.5000E-01	0.1000E 00	0.4900	0.2300	0.8000E-01	0.5000E-01	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JM0011	JF0339A	JF0363	JF0377A	JA0157	JA0168B	JA0182	JA0183	JA0353
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SD3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG %	41.50	42.40	41.30	40.90	39.90	34.80	36.40	41.10	B 0.0
MAT.VCL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	1.900	1.100	3.400	1.900	8.100	8.700	2.000	2.200	B 0.0
R.INSOL.	2.700	4.300	3.100	5.500	2.700	15.60	15.80	4.000	B 0.0
VB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	3 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	110.0	35.00	95.00	35.00	100.0	25.00	45.00	170.0	40.00
PB-AA	85.00	65.00	80.00	75.00	100.0	H 45.00	65.00	150.0	60.00
ZN-AA	280.0	180.0	550.0	250.0	G 1000.	40.00	300.0	280.0	45.00
AG-AA	H 4.000	H 4.000	H 3.500	H 3.500	H 3.000	H 2.500	H 2.500	H 4.000	H 4.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	120.0	700.0	275.0	800.0	500.0	450.0	225.0	150.0	B 0.0



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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## CALCARIOS CALCARENITOS E MARCAS

## A M O S T R A S

VARIABLE	JA0331A	JF0413F	JF0389F	JF0390D	JM0008D	JM0028	JF0369B	JF0369C	JA0144B
LATITUDE	0.2781E 05	0.2758E 05	0.2776E 05	0.2777E 05	0.2726E 05	0.2705F 05	0.2708E 05	0.2708F 05	0.2763F 05
LONGITUD	0.1456E 06	0.1458E 06	0.1448E 06	0.1449E 06	0.1410E 06	0.1434E 06	0.1411E 06	0.1411E 06	0.1414F 06
UTM-ABC	0.3402E 06	0.3331F 06	0.3646F 06	0.3634F 06	0.4820E 06	0.4075F 06	0.4793F 06	0.4793F 06	0.4702E 06
UTM-ORD	0.9146E 07	0.9153E 07	0.9148F 07	0.9147E 07	0.9163F 07	0.9169E 07	0.9169E 07	0.9169E 07	0.9152F 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	10.00	7.000	7.000	0.3000	3.000	7.000	5.000	3.000
MG-S %	0.5000	2.000	2.000	2.000	1.000	1.000	1.500	1.500	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	20.00	20.00	15.00	20.00	20.00
TI-S %	0.5000E-01	0.7000	0.3000	0.3000	0.5000	0.1500	0.5000	0.2000	0.2000
MN-S	G 5000.	3000.	G 5000.	5000.	5000.	G 5000.	G 5000.	5000.	G 5000.
AG-S	V 0.5000	1.500	N 0.5000	N 0.5000	N 0.5000	2.000	3.000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	N 10.00	50.00	100.0	200.0	L 10.00	N 10.00	50.00	20.00	L 10.00
BA-S	1000.	G 5000.	G 5000.	G 5000.	700.0	1000.	G 5000.	300.0	500.0
BE-S	1.000	1.500	L 1.000	L 1.000	1.500	1.500	3.000	2.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	20.00	15.00	10.00	5.000	20.00	30.00	7.000	7.000
CR-S	10.00	300.0	200.0	150.0	50.00	50.00	100.0	70.00	50.00
CU-S	10.00	500.0	70.00	70.00	5.000	150.0	30.00	50.00	30.00
LA-S	L 20.00	100.0	70.00	50.00	100.0	100.0	100.0	70.00	70.00
MD-S	15.00	300.0	20.00	15.00	N 5.000	15.00	N 5.000	N 5.000	L 5.000
NR-S	L 10.00	20.00	10.00	L 10.00	15.00	10.00	15.00	10.00	L 10.00
NI-S	10.00	300.0	100.0	70.00	15.00	30.00	70.00	30.00	20.00
PB-S	70.00	150.0	70.00	50.00	30.00	1000.	150.0	150.0	100.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	20.00	15.00	15.00	7.000	5.000	15.00	10.00	7.000
SN-S	N 10.00	H 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	300.0	2000.	3000.	300.0	500.0	700.0	500.0	300.0
V-S	50.00	2000.	1500.	700.0	50.00	200.0	150.0	150.0	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	100.0	70.00	50.00	100.0	30.00	150.0	20.00	15.00
ZN-S	500.0	500.0	200.0	200.0	N 200.0	1500.	500.0	200.0	300.0
ZR-S	10.00	300.0	150.0	150.0	300.0	20.00	500.0	70.00	100.0
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
Al2O3 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FeO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CaO-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
Na2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TiO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
Fe2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FeO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MnO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0331A	JF0413F	JF0389F	JF0390D	JM0008D	JM0028	JF0369B	JF0369C	JA0144B
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FGG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	25.00	220.0	40.00	45.00	5.000	120.0	35.00	45.00	45.00
PB-AA	90.00	50.00	55.00	55.00	H 30.00	220.0	55.00	60.00	70.00
ZN-AA	150.0	170.0	70.00	50.00	10.00	970.0	310.0	160.0	320.0
AG-AA	H 4.500	H 2.000	H 3.000	H 3.000	H 2.000	H 3.500	H 2.000	H 3.000	H 3.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	0.3000E-01	0.1300	0.8000E-01	0.3000E-01	0.2000E-01
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	150.0	500.0	600.0	600.0	250.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0331A	JF0413F	JF0389F	JF0390D	JM0008D	JM0028	JF0369B	JF0369C	JA0144B
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P DRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0223A	JA0224	JF0395A	JF0401B	JF0413C	JF0391D	JA0267B	JA0331B	JA0265B
LATITUDE	0.2698E 05	0.2699F 05	0.2771F 05	0.2892E 05	0.2758F 05	0.2774E 05	0.2731E 05	0.2755E 05	0.2727E 05
LONGITUD	0.1438E 06	0.1408E 06	0.1446E 06	0.1456E 06	0.1459E 06	0.1447E 06	0.1443E 06	0.1443F 06	0.1443F 06
UTM-ABC	0.4876E 06	0.4877E 06	0.3707F 06	0.3415E 06	0.3331F 06	0.3693E 06	0.3793F 06	0.3802F 06	0.3797E 06
UTM-OPD	0.9172E 07	0.9171E 07	0.9149E 07	0.9112E 07	0.9153F 07	0.9148E 07	0.9161F 07	0.9154F 07	0.9163E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	7.000	10.00	3.000	2.000	5.000	3.000	0.7000	7.000
MG-S %	1.000	1.500	2.000	1.000	1.000	2.000	1.000	0.3000	0.5000
CA-S %	20.00	20.00	5.000	15.00	20.00	20.00	20.00	20.00	15.00
TI-S %	0.1000E 00	0.2000	0.7000	0.5000	0.7000E-01	0.5000	0.5000E-01	0.2000E-01	0.7000
MN-S	5000.	5000.	1000.	300.0	2000.	1000.	1000.	G 5000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
F-S	L 10.00	20.00	100.0	70.00	L 10.00	200.0	L 10.00	N 10.00	50.00
BA-S	200.0	300.0	5000.	500.0	1000.	G 5000.	2000.	700.0	3000.
BE-S	1.000	1.500	3.000	L 1.000	L 1.000	1.000	L 1.000	L 1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	30.00	10.00	70.00	7.000	L 5.000	30.00	5.000	L 5.000	20.00
CR-S	30.00	70.00	150.0	50.00	50.00	150.0	20.00	10.00	100.0
CU-S	150.0	50.00	500.0	20.00	20.00	100.0	70.00	7.000	20.00
LA-S	50.00	50.00	70.00	70.00	20.00	100.0	20.00	20.00	100.0
MD-S	15.00	N 5.000	20.00	L 5.000	15.00	5.000	300.0	L 5.000	L 5.000
NB-S	L 10.00	10.00	20.00	10.00	L 10.00	10.00	N 10.00	N 10.00	15.00
NI-S	20.00	30.00	300.0	50.00	20.00	150.0	30.00	5.000	150.0
PB-S	200.0	200.0	70.00	20.00	10.00	50.00	10.00	70.00	15.00
SE-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	L 5.000	10.00	50.00	10.00	5.000	15.00	L 5.000	L 5.000	20.00
SN-S	N 10.00	N 10.00	10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	10.00
SR-S	200.0	700.0	700.0	500.0	1000.	2000.	500.0	200.0	300.0
V-S	100.0	100.0	500.0	100.0	50.00	700.0	500.0	50.00	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	20.00	100.0	30.00	15.00	70.00	10.00	L 10.00	200.0
ZN-S	300.0	300.0	700.0	N 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0
ZR-S	20.00	70.00	150.0	100.0	30.00	50.00	10.00	10.00	700.0
S102 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
A1203 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
A1203 B. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAD-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
T102-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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 CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0223A	JA0224	JF0395A	JF0401B	JF0413C	JF0391D	JA0267B	JA0331B	JA0265B
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
VB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
WO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
YN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNQ2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT_VCL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSGL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
VH+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	190.0	40.00	190.0	20.00	25.00	70.00	60.00	10.00	15.00
PB-AA	110.0	85.00	45.00	H 25.00	H 55.00	H 45.00	H 55.00	90.00	H 30.00
ZN-AA	680.0	270.0	290.0	25.00	30.00	55.00	20.00	90.00	25.00
AG-AA	H 3.500	H 3.000	H 1.500	H 1.000	H 4.000	H 2.000	H 3.500	H 4.500	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	0.3000E-01	0.3000E-01	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	225.0	700.0	2750.	425.0	400.0	1500.	225.0	80.00	250.0



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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JA0276E	JA0337B	JA0358	JA0359B	JA0354B	JA0384A	JA0384B	JA039B	JA0430
LATITUDE	0.2745E 05	0.2746E 05	0.2764E 05	0.2763E 05	0.2765E 05	0.2735E 05	0.2735E 05	0.2753E 05	0.2822E 05
LONGITUD	0.1442E 06	0.1442E 06	0.1460E 06	0.1458E 06	0.1457E 06	0.1455E 06	0.1455E 06	0.1457E 06	0.1463E 06
UTM-ABC	0.3843E 06	0.3845E 06	0.3293E 06	0.3338E 06	0.3375E 06	0.3445E 06	0.3445E 06	0.3367E 06	0.3179E 06
UTM-ORD	0.9157E 07	0.9157E 07	0.9151E 07	0.9151E 07	0.9151E 07	0.9160E 07	0.9160E 07	0.9154E 07	0.9133E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	15.00	5.000	1.000	1.000	0.7000	1.500	2.000	1.500	2.000
MG-S %	1.500	1.000	0.5000	0.7000	0.7000	1.000	1.000	1.000	10.00
CA-S %	5.000	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.7000	0.7000E-01	0.5000E-01	0.5000E-01	0.2000E-01	0.1000E 00	0.1000E 00	0.5000E-01	0.1000E 00
UV-S	700.0	G 5000.	G 5000.	G 5000.	5000.	G 5000.	5000.	5000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	200.0	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
BA-S	2000.	2000.	G 5000.	5000.	200.0	200.0	300.0	100.0	200.0
BE-S	3.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	N 1.000	L 1.000
HI-S	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	V 20.00	N 20.00	N 20.00	50.00	N 20.00	20.00	20.00	50.00	N 20.00
CO-S	50.00	10.00	15.00	15.00	5.000	15.00	10.00	7.000	10.00
CR-S	200.0	20.00	20.00	70.00	10.00	50.00	70.00	50.00	50.00
CU-S	150.0	30.00	50.00	70.00	20.00	50.00	70.00	30.00	70.00
LA-S	150.0	70.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
MO-S	100.0	200.0	50.00	30.00	20.00	30.00	50.00	20.00	7.000
NB-S	15.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00	L 10.00	10.00
NI-S	300.0	70.00	20.00	20.00	5.000	50.00	50.00	20.00	15.00
PB-S	100.0	15.00	50.00	50.00	10.00	20.00	20.00	30.00	500.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	70.00	5.000	N 5.000	5.000	N 5.000	5.000	5.000	5.000	5.000
SN-S	10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	2000.	300.0	500.0	200.0	200.0	200.0	200.0	500.0	100.0
V-S	200.0	150.0	100.0	200.0	150.0	200.0	150.0	150.0	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	150.0	20.00	20.00	30.00	10.00	20.00	15.00	15.00	15.00
ZN-S	200.0	L 200.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	L 200.0
ZR-S	700.0	20.00	30.00	30.00	10.00	70.00	100.0	20.00	50.00
SIO2 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SIO2 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TIO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0276E	JA0337B	JA0358	JA0259B	JA0364B	JA0384A	JA0384B	JA0398	JA0430
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W73-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CR %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSGL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	90.00	35.00	30.00	40.00	15.00	35.00	50.00	30.00	100.0
PB-AA	60.00	H 55.00	55.00	55.00	55.00	H 50.00	H 45.00	55.00	230.0
ZN-AA	160.0	30.00	140.0	70.00	15.00	65.00	30.00	110.0	180.0
AG-AA	H 1.000	H 3.500	H 3.000	H 3.000	H 3.000	H 2.500	H 2.500	H 2.500	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS.	190.0	250.0	150.0	160.0	140.0	300.0	475.0	190.0	250.0





CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0431	JA0445	JA0463H	JA0464	JA0519C	JA0525B	JA0526C	JA0544	JA0554
LATITUDE	0.2820E 05	0.2821E 05	0.2878F 05	0.2801F 05	0.2550E 05	0.2665F 05	0.2664E 05	0.2666F 05	0.2645E 05
LONGITUD	0.1463E 06	0.1465E 06	0.1468E 06	0.1468E 06	0.1455E 06	0.1465E 06	0.1465E 06	0.1468E 06	0.1465E 06
UTM-ABC	0.3131E 06	0.3125F 06	0.3030F 06	0.3050F 06	0.3115F 06	0.3116F 06	0.3116E 06	0.3042F 06	0.3142F 06
UTM-ORD	0.9134E 07	0.9133E 07	0.9116F 07	0.9140E 07	0.9186E 07	0.9182E 07	0.9182F 07	0.9181E 07	0.9188F 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	1.500	1.500	2.000	1.500	5.000	2.000	1.000	0.5000
MG-S %	2.000	0.5000	1.000	1.000	1.500	1.500	1.500	0.7000	1.000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.2000E-01	0.5000E-01	0.1000F 00	0.2000	0.1500	0.1000E 00	0.1500	0.1500E-01
MN-S	G 5000.	5000.	5000.	1500.	5000.	5000.	2000.	5000.	5000.
AG-S	N 0.5000	N 0.5000	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	L 10.00	10.00	10.00	10.00	20.00	20.00	50.00	L 10.00
BA-S	500.0	300.0	5000.	700.0	500.0	500.0	200.0	1000.	200.0
BE-S	L 1.000	L 1.000	N 1.000	L 1.000	L 1.000	1.000	L 1.000	L 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	7.000	15.00	10.00	5.000	10.00	7.000	5.000	5.000
CR-S	70.00	20.00	50.00	70.00	100.0	100.0	70.00	150.0	20.00
CJ-S	70.00	50.00	50.00	20.00	30.00	70.00	50.00	7.000	7.000
LA-S	20.00	20.00	20.00	20.00	20.00	50.00	20.00	20.00	L 20.00
MO-S	7.000	5.000	5.000	L 5.000	L 5.000	L 5.000	20.00	L 5.000	N 5.000
NR-S	10.00	L 10.00	L 10.00	10.00	10.00	10.00	10.00	L 10.00	L 10.00
NI-S	20.00	10.00	10.00	20.00	15.00	50.00	30.00	15.00	5.000
PB-S	100.0	200.0	700.0	20.00	200.0	30.00	30.00	20.00	200.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	N 5.000	N 5.000	5.000	5.000	10.00	5.000	5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	200.0	200.0	700.0	200.0	500.0	200.0	150.0	300.0
V-S	50.00	30.00	50.00	50.00	20.00	50.00	70.00	30.00	20.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	15.00	L 10.00	10.00	10.00	20.00	30.00	15.00	30.00	10.00
ZN-S	300.0	N 200.0	300.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	50.00	10.00	15.00	100.0	500.0	100.0	100.0	150.0	10.00
S102 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 R%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TIO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JA0431	JA0445	JA0463H	JA0464	JA0519C	JA0525B	JA0526C	JA0544	JA0554
MND-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
N8205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
40-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SND2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BED-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LIZO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VCL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CR %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	95.00	35.00	50.00	20.00	25.00	60.00	35.00	5.000	10.00
PB-AA	60.00	100.0	260.0	H 35.00	110.0	H 35.00	H 40.00	H 25.00	130.0
ZH-AA	330.0	45.00	330.0	130.0	50.00	55.00	25.00	15.00	60.00
AG-AA	H 2.000	H 3.000	H 2.500	H 2.000	H 2.000	H 2.000	H 2.000	H 1.500	H 3.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HQ-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FRINS	300.0	90.00	250.0	600.0	300.0	500.0	275.0	120.0	190.0



CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0570	JA0463G	JA0363	JA0364A	JA0376B	JA0386	JA0432A	JA0432B	JA0446
LATITUDE	0.2644F 05	0.2878F 05	0.2764F 05	0.2765F 05	0.2737E 05	0.2736F 05	0.2810F 05	0.2810F 05	0.2819F 05
LONGITUD	0.1463E 06	0.1468F 06	0.1457F 06	0.1457E 06	0.1455E 06	0.1455E 06	0.1461E 06	0.1461F 06	0.1465E 06
UTM-ABC	0.3177E 06	0.3030E 06	0.3373F 06	0.3375F 06	0.3440E 06	0.3450E 06	0.3267E 06	0.3267E 06	0.3129E 06
UTM-ORD	0.9188E 07	0.9116E 07	0.9151F 07	0.9151E 07	0.9159F 07	0.9160E 07	0.9137F 07	0.9137E 07	0.9134F 07
H. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	1.500	1.500	2.000	3.000	1.500	2.000	5.000	1.500	0.5000
MG-S %	1.000	1.000	1.000	2.000	1.000	1.000	1.000	1.000	0.3000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.5000E-01	0.5000E-01	0.1000E 00	0.1500	0.1500	0.1000E 00	0.1000E 00	0.7000E-01	0.5000E-02
MN-S	5000.	5000.	3000.	2000.	5000.	5000.	5000.	5000.	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	10.00	10.00	20.00	10.00	L 10.00	20.00	10.00	N 10.00
BA-S	200.0	2000.	500.0	G 5000.	700.0	1000.	300.0	300.0	N 500.0
BE-S	L 1.000	L 1.000	N 1.000	L 1.000	L 1.000	L 1.000	L 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	20.00	L 20.00	N 20.00	L 20.00	L 20.00	N 20.00	N 20.00	N 20.00
CO-S	V 20.00	20.00	L 20.00	N 20.00	L 20.00	L 20.00	N 20.00	N 20.00	N 20.00
CR-S	7.000	15.00	10.00	10.00	20.00	20.00	15.00	5.000	N 5.000
CU-S	50.00	50.00	50.00	70.00	70.00	70.00	50.00	50.00	10.00
CI-S	20.00	70.00	70.00	70.00	70.00	70.00	100.0	50.00	50.00
LA-S	20.00	20.00	20.00	30.00	20.00	20.00	50.00	20.00	N 20.00
MO-S	7.000	N 5.000	70.00	50.00	50.00	70.00	30.00	5.000	5.000
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	15.00	10.00	50.00	70.00	50.00	50.00	20.00	15.00	5.000
PB-S	30.00	1000.	20.00	50.00	50.00	20.00	500.0	300.0	50.00
SA-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	5.000	10.00	5.000	5.000	5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	100.0
V-S	100.0	100.0	200.0	500.0	200.0	150.0	150.0	100.0	20.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	10.00	20.00	30.00	20.00	10.00	20.00	15.00	L 10.00
ZN-S	N 200.0	500.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	20.00	20.00	50.00	100.0	70.00	30.00	100.0	20.00	150.0
S102 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JA0570	JA0463G	JA0363	JA0364A	JA0376R	JA0386	JA0432A	JA0432B	JA0446
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NR205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SND2-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-C %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FCG %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOCL.	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NH+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	25.00	60.00	60.00	60.00	65.00	80.00	140.0	40.00	50.00
PR-AA	H 57.00	250.0	H 40.00	H 35.00	H 45.00	H 45.00	100.0	130.0	70.00
ZN-AA	25.00	350.0	25.00	65.00	50.00	50.00	45.00	210.0	100.0
AG-AA	H 2.500	H 2.500	H 2.500	H 2.000	H 2.500	H 2.500	H 2.500	H 2.500	H 3.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
E-INS	350.0	400.0	300.0	600.0	400.0	450.0	350.0	275.0	500.0



S E A G PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JA0447	JA0456A	JA0463I	JA0485	JF0443	JF0586	JM0300B	JM0360	JA0483
LATITUDE	0.2813E 05	0.2867E 05	0.2878E 05	0.2820E 05	0.2732E 05	0.2623E 05	0.2753F 05	0.2639E 05	0.2821F 05
LONGITUD	0.1451E 06	0.1460F 06	0.1468F 06	0.1464E 06	0.1457E 06	0.1461F 06	0.1466E 06	0.1462E 06	0.1454E 06
UTM-ABC	0.3260E 06	0.3283E 06	0.3030E 06	0.3174E 06	0.3075E 06	0.3238E 06	0.3104F 06	0.3224F 06	0.3170E 06
UTM-ORD	0.9136E 07	0.9119E 07	0.9116E 07	0.9134E 07	0.9161E 07	0.9194E 07	0.9154E 07	0.9189E 07	0.9134E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.5000	10.00	0.7000	5.000	2.000	1.500	2.000	0.5000	0.2000
MG-S %	0.3000	2.000	1.000	10.00	1.500	1.000	1.500	0.2000	0.3000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1500E-01	0.1500	0.5000E-01	0.5000E-01	0.1000E 00	0.5000E-01	0.1000F 00	0.1000F-01	0.7000F-01
MN-S	G 5000.	G 5000.	5000.	G 5000.	G 5000.	2000.	G 5000.	100.0	G 5000.
AG-S	N 0.5000	1.000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	20.00	10.00	10.00	20.00	L 10.00	20.00	L 10.00	N 10.00
BA-S	50.00	2000.	300.0	500.0	500.0	500.0	200.0	70.00	100.0
BE-S	N 1.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	1.000	N 1.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	L 20.00	L 20.00	L 20.00	N 20.00	L 20.00	N 20.00	N 20.00
CO-S	N 5.000	20.00	7.000	10.00	10.00	5.000	7.000	N 5.000	L 5.000
CR-S	10.00	70.00	20.00	10.00	70.00	50.00	70.00	30.00	10.00
CU-S	7.000	30.00	50.00	30.00	70.00	30.00	70.00	5.000	10.00
LA-S	N 20.00	100.0	20.00	20.00	20.00	L 20.00	20.00	N 20.00	50.00
MO-S	5.000	H 5.000	N 5.000	N 5.000	30.00	10.00	20.00	N 5.000	5.000
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	N 5.000	50.00	5.000	10.00	30.00	20.00	20.00	5.000	5.000
PB-S	50.00	150.0	300.0	30.00	20.00	10.00	20.00	10.00	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	10.00	N 5.000	N 5.000	10.00	N 5.000	5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	200.0	200.0	200.0	200.0	200.0	N 100.0	150.0
V-S	20.00	50.00	100.0	50.00	150.0	50.00	100.0	10.00	30.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	L 10.00	150.0	10.00	10.00	30.00	10.00	30.00	10.00	10.00
ZN-S	N 200.0	N 200.0	200.0	300.0	200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	10.00	150.0	15.00	15.00	100.0	70.00	30.00	10.00	30.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1.200
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	0.2000
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	0.5000
CA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	53.30
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	L 0.1000E 00
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	0.8000
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	L 0.1000E 00
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0447	JA0456A	JA04631	JA0485	JF0443	JF0586	JM0300B	JM0360	JA0483
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-U %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOI.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	15.00	20.00	25.00	25.00	40.00	25.00	55.00	70.00	15.00
PB-AA	65.00	65.00	120.00	40.00	40.00	45.00	40.00	60.00	55.00
ZN-AA	45.00	30.00	270.00	570.00	110.00	15.00	140.00	10.00	80.00
AG-AA	H 3.500	H 2.500	H 3.000	H 2.000	H 2.500	H 3.000	H 2.500	H 3.000	H 4.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SF-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
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FINSOJ	50.00	450.00	300.00	700.00	325.00	350.00	600.00	130.00	60.00





CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0484	JA0486A	JA0487	JA0519A	JA0572A	JF0447	JA0448	JA0392	JA0450C
LATITUDE	0.2820E 05	0.2819F 05	0.2818E 05	0.2650F 05	0.2644E 05	0.2731F 05	0.2814E 05	0.2723E 05	0.2809E 05
LONGITUD	0.1464F 06	0.1464E 06	0.1464F 06	0.1455E 06	0.1464F 06	0.1467E 06	0.1461E 06	0.1456E 06	0.1451E 06
UTM-ABC	0.3173E 06	0.3173E 06	0.3174E 06	0.3115F 06	0.3167F 06	0.3067E 06	0.3258E 06	0.3393F 06	0.3262E 06
UTM-ORD	0.9134E 07	0.9134E 07	0.9134E 07	0.9186E 07	0.9188E 07	0.9161E 07	0.9136E 07	0.9164E 07	0.9137F 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	0.3000	10.00	3.000	7.000	3.000	1.500	2.000	2.000	2.000
MG-S %	0.3000	1.500	1.000	0.7000	1.000	1.000	3.000	1.000	0.5000
CA-S %	20.00	7.000	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.3000E-01	0.7000	0.7000F-01	0.1000E 00	0.1000E 00	0.1000E 00	0.1000E-01	0.7000F-01	0.5000F-01
MN-S	5000.	1000.	G 5000.	G 5000.	5000.	G 5000.	G 5000.	5000.	5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	200.0	70.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00
BA-S	150.0	500.0	300.0	G 5000.	500.0	G 5000.	50.00	500.0	500.0
BE-S	L 1.000	5.000	1.000	1.500	1.000	2.000	L 1.000	L 1.000	L 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	N 5.000	50.00	50.00	30.00	5.000	7.000	5.000	7.000	5.000
CR-S	10.00	150.0	10.00	15.00	20.00	20.00	20.00	50.00	20.00
CU-S	20.00	100.0	20.00	30.00	20.00	30.00	10.00	70.00	10.00
LA-S	20.00	150.0	70.00	70.00	50.00	50.00	N 20.00	20.00	30.00
MD-S	L 5.000	H 5.000	10.00	10.00	L 5.000	5.000	N 5.000	50.00	10.00
NB-S	L 10.00	30.00	L 10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	L 5.000	150.0	5.000	20.00	15.00	15.00	N 5.000	20.00	10.00
PB-S	100.0	30.00	70.00	150.0	50.00	200.0	150.0	20.00	150.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	20.00	V 5.000	N 5.000	N 5.000	N 5.000	N 5.000	5.000	N 5.000
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	200.0	700.0	300.0	300.0	300.0	200.0	200.0	100.0
V-S	50.00	300.0	50.00	100.0	70.00	100.0	20.00	150.0	50.00
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	L 10.00	150.0	15.00	20.00	L 10.00	10.00	L 10.00	20.00	20.00
ZN-S	N 200.0	700.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	N 200.0	N 200.0
ZR-S	30.00	200.0	20.00	30.00	30.00	20.00	10.00	20.00	20.00
ST02 T. %	1.100	44.80	3.200	4.300	4.900	13.90	B 0.0	B 0.0	B 0.0
ST02 L. %	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T. %	0.5000	1.400	0.2000	1.200	0.5000	0.2000	B 0.0	B 0.0	B 0.0
AL203 B. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	0.5000	4.700	2.800	2.100	2.500	2.200	B 0.0	B 0.0	B 0.0
CAO-Q %	53.30	7.300	48.30	47.80	49.10	44.10	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	R 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	L 0.1000E 00	0.7000	L 0.1000E 00	L 0.1000E 00	L 0.1000E 00	L 0.1000E 00	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	0.8000	5.800	1.500	2.400	2.300	0.9000	B 0.0	B 0.0	B 0.0
FFO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	0.1000E 00	0.3000	0.1000E 00	0.3000	0.2000	L 0.1000E 00	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JA0484	JA0486A	JA0487	JA0519A	JA0572A	JF0447	JA0448	JA0392	JA0450C
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HQ-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEQ-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG %	42.10	14.80	41.40	39.50	40.60	36.70	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	20.00	75.00	15.00	30.00	15.00	25.00	15.00	60.00	25.00
PB-AA	90.00	20.00	65.00	70.00	50.00	70.00	100.0	15.00	110.0
ZN-AA	95.00	480.0	150.0	230.0	65.00	140.0	180.0	55.00	15.00
AG-AA	H 3.500	H 1.000	H 3.000	H 3.000	H 3.000	H 3.500	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	70.00	1600.	900.0	450.0	350.0	140.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIÁVEL	JA0457B	JA0466	JA0527A	JA0572B	<u>JA0404</u>	JA0450A	JA0488	JA0519B	JM0234
LATITUDE	0.2874E 05	0.2800E 05	0.2664E 05	0.2644E 05	0.2754E 05	0.2809E 05	0.2818E 05	0.2650E 05	0.2754E 05
LONGITUD	0.1458E 06	0.1468E 06	0.1465E 06	0.1464E 06	0.1457E 06	0.1461E 06	0.1464E 06	0.1465E 06	0.1450E 06
UTM-ABC	0.3352E 06	0.3052E 06	0.3115E 06	0.3167E 06	0.3375E 06	0.3262E 06	0.3175E 06	0.3115E 06	0.3293E 06
UTM-ORD	0.9117E 07	0.9140E 07	0.9182E 07	0.9188E 07	0.9154E 07	0.9137E 07	0.9135E 07	0.9186E 07	0.9154E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	2.000	1.000	2.000	0.5000	3.000	2.000	1.500	7.000	2.000
MG-S %	1.000	0.7000	1.000	0.5000	1.500	0.2000	0.7000	1.500	0.7000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.1000E 00	0.5000E-01	0.7000E-01	0.2000E-01	0.1000E 00	0.1000E-01	0.5000E-01	0.5000E-01	0.5000E-01
MN-S	5000.	5000.	5000.	5000.	3000.	G 5000.	G 5000.	G 5000.	1500.
AG-S	N 0.5000	H 1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	L 10.00	L 10.00	L 10.00	N 10.00	10.00	L 10.00	N 10.00	L 10.00	L 10.00
BA-S	500.0	5000.	200.0	50.00	200.0	500.0	2000.	1500.	150.0
BE-S	L 1.000	L 1.000	L 1.000	N 1.000	N 1.000	N 1.000	L 1.000	L 1.000	L 1.000
BI-S	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	10.00	10.00	N 5.000	15.00	5.000	15.00	50.00	10.00
CR-S	50.00	20.00	50.00	10.00	70.00	N 10.00	N 10.00	20.00	50.00
CU-S	10.00	50.00	50.00	5.000	100.0	5.000	30.00	70.00	30.00
LA-S	20.00	20.00	20.00	20.00	20.00	20.00	20.00	50.00	20.00
MO-S	5.000	15.00	50.00	N 5.000	(700.0)	5.000	15.00	20.00	70.00
NR-S	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	L 10.00	N 10.00	N 10.00	N 10.00
NI-S	15.00	15.00	20.00	5.000	70.00	5.000	10.00	50.00	15.00
PI-S	30.00	100.0	20.00	10.00	30.00	70.00	70.00	100.0	20.00
SP-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	N 5.000	5.000	N 5.000	5.000	N 5.000	N 5.000	5.000	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	300.0	100.0	300.0	300.0	300.0	200.0	700.0	200.0	300.0
V-S	20.00	50.00	100.0	50.00	500.0	50.00	50.00	100.0	50.00
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	10.00	10.00	10.00	20.00	10.00	10.00	30.00	10.00
ZN-S	N 200.0	500.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0	N 200.0
ZR-S	30.00	20.00	20.00	50.00	50.00	L 10.00	20.00	30.00	50.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL2O3 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-O%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JA0457B	JA0466	JA0527A	JA0572B	JA0404	JA0450A	JA0488	JA0519B	JM0234
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
L120-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOB	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NR+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	15.00	40.00	40.00	10.00	130.00	10.00	20.00	50.00	25.00
PR-AA	23.00	100.00	15.00	10.00	10.00	40.00	15.00	65.00	10.00
ZN-AA	20.00	500.00	40.00	20.00	30.00	40.00	60.00	590.00	15.00
AG-AA	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000	N 0:5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MFT PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FR-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JM0343	JF0428	JF0429B	JF0068	JF0026C	JF0046B	JF0071D	JF0027	JF0045
LATITUDE	0.2776E 05	0.2775E 05	0.2776F 05	0.2611E 05	0.2660F 05	0.2649E 05	0.2612E 05	0.2661E 05	0.2648F 05
LONGITUD	0.1465E 06	0.1448E 06	0.1448F 06	0.1420E 06	0.1439E 06	0.1415E 06	0.1420E 06	0.1409E 06	0.1415E 06
UTM-ABC	0.3139E 06	0.3666E 06	0.3657F 06	0.4459E 06	0.4842E 06	0.4674E 06	0.4496E 06	0.4842F 06	0.4674E 06
UTM-ORD	0.9147E 07	0.9148E 07	0.9148F 07	0.9198E 07	0.9193F 07	0.9187E 07	0.9198E 07	0.9183E 07	0.9187E 07
M. C.	37.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	3.000	3.000	2.000	5.000	5.000	1.000	3.000	2.000
MG-S %	0.5000	7.000	10.00	2.000	2.000	1.500	1.500	1.500	1.000
CA-S %	G 20.00	20.00	20.00	G 20.00	G 20.00	1.500	G 20.00	G 20.00	G 20.00
TI-S %	0.5000E-01	0.1500	0.1500	0.1500	0.2000	1.000	0.2000E-01	0.3000E-01	0.5000E-01
MN-S	5000.	5000.	5000.	3000.	G 5000.	500.0	5000.	G 5000.	G 5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	50.00	50.00	30.00	30.00	100.0	10.00	10.00	20.00
BA-S	700.0	700.0	500.0	200.0	500.0	700.0	2000.	50.00	70.00
BE-S	N 1.000	L 1.000	L 1.000	L 1.000	L 1.000	1.000	N 1.000	N 1.000	L 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	15.00	7.000	10.00	10.00	20.00	20.00	15.00	5.000
CR-S	20.00	50.00	70.00	100.0	100.0	100.0	50.00	20.00	50.00
CU-S	100.0	100.0	20.00	50.00	30.00	50.00	50.00	50.00	100.0
LA-S	20.00	20.00	20.00	50.00	50.00	70.00	N 20.00	70.00	20.00
MO-S	70.00	7.000	10.00	N 5.000	N 5.000	N 5.000	30.00	30.00	10.00
NB-S	L 10.00	L 10.00	10.00	L 10.00	L 10.00	15.00	N 10.00	L 10.00	L 10.00
NI-S	15.00	20.00	20.00	20.00	50.00	50.00	15.00	15.00	15.00
PB-S	500.0	100.0	20.00	100.0	100.0	20.00	100.0	50.00	100.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	5.000	10.00	10.00	10.00	15.00	N 5.000	5.000	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	500.0	200.0	200.0	300.0	100.0	500.0	500.0	500.0
V-S	150.0	150.0	100.0	50.00	100.0	100.0	30.00	50.00	100.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	20.00	20.00	20.00	20.00	50.00	L 10.00	50.00	20.00
ZN-S	300.0	200.0	N 200.0	L 200.0	L 200.0	N 200.0	200.0	N 200.0	200.0
ZR-S	10.00	30.00	50.00	70.00	100.0	500.0	10.00	20.00	15.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIABLE	JM0343	JF0428	JF0429B	JF0068	JF0026C	JF0046B	JF0071D	JF0027	JF0045
MND-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FCG %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	160.0	85.00	15.00	40.00	30.00	25.00	50.00	40.00	150.0
PB-AA	270.0	50.00	10.00	25.00	30.00	5.000	35.00	20.00	30.00
ZN-AA	630.0	270.0	20.00	220.0	190.0	40.00	660.0	90.00	280.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	700.0	400.0	400.0	475.0	425.0	325.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## CALCARIOS CALCARENITOS E MARGAS

## A M O S T R A S

VARIÁVEL	JM0343	JF0428	JF0429B	JF0068	JF0026C	JF0046B	JF0071D	JF0027	JF0045
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



CALCARIOS CALCARENITOS E MARGAS

A M O S T R A S

VARIAVEL	JF0254	JF0272	JF0192	JA0022	JA0023	JA0049	JA0065B	JA0080B	JA0083
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MD-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
REO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VCL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CR %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	25.00	300.0	55.00	30.00	150.0	35.00	25.00	45.00	150.0
PB-AA	13.00	150.0	15.00	110.0	380.0	70.00	25.00	35.00	160.0
ZN-AA	20.00	310.0	55.00	55.00	710.0	380.0	230.0	670.0	380.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	225.0	190.0	1100.	425.0	1200.	130.0	275.0	375.0	3200.



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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E MARGAS BETUMINOSAS

A M O S T R A S

VARIÁVEL	JF0068	JF0018	JF0188A	JF0282	JA0092A	JA0059B	JA0078	JF0195	JM00088
LATITUDE	0.2604E 05	0.2658E 05	0.2653E 05	0.2573E 05	0.2550E 05	0.2582E 05	0.2568E 05	0.2615E 05	0.2726E 05
LONGITUD	0.1420E 06	0.1409E 06	0.1406E 06	0.1432E 06	0.1429E 06	0.1430E 06	0.1430E 06	0.1406E 06	0.1410E 06
UTM-ABC	0.4512E 06	0.4842E 06	0.4933E 06	0.4138E 06	0.4247E 06	0.4193E 06	0.4216E 06	0.4953E 06	0.4820E 06
UTM-ORD	0.9200E 07	0.9184E 07	0.9185E 07	0.9210E 07	0.9217E 07	0.9207E 07	0.9212E 07	0.9197E 07	0.9163E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	15.00	5.000	7.000	3.000	7.000	3.000	7.000	7.000
MG-S %	1.000	0.7000	1.000	1.500	1.500	1.500	1.500	0.7000	1.500
CA-S %	20.00	20.00	20.00	15.00	20.00	20.00	20.00	20.00	20.00
TI-S %	0.7000E-01	0.1000E 00	0.1500	0.5000	0.1500	0.2000	0.2000	0.1000E 00	0.5000
MN-S	G 5000.	G 5000.	G 5000.	1500.	1500.	1500.	2000.	G 5000.	G 5000.
AG-S	N 0.5000	7.000	N 0.5000	10.00	N 0.5000	N 0.5000	N 0.5000	3.000	2.000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	10.00	20.00	100.0	30.00	100.0	15.00	10.00	100.0
BA-S	150.0	150.0	700.0	G 5000.	500.0	700.0	1500.	300.0	700.0
BE-S	L 1.000	L 1.000	L 1.000	1.000	1.500	1.000	L 1.000	L 1.000	3.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	L 20.00	70.00	N 20.00	N 20.00	N 20.00	N 20.00	30.00	L 20.00
CO-S	50.00	70.00	20.00	70.00	7.000	10.00	7.000	7.000	100.0
CR-S	30.00	50.00	50.00	100.0	70.00	70.00	70.00	50.00	200.0
CU-S	150.0	150.0	70.00	150.0	30.00	30.00	30.00	70.00	200.0
LA-S	20.00	70.00	20.00	100.0	30.00	100.0	30.00	50.00	100.0
MO-S	150.0	100.0	70.00	15.00	30.00	150.0	15.00	70.00	150.0
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	15.00
NI-S	30.00	300.0	50.00	150.0	30.00	30.00	30.00	30.00	H 500.0
PB-S	700.0	10000.	1500.	700.0	70.00	70.00	70.00	10000.	100.0
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0
SC-S	L 5.000	5.000	7.000	20.00	7.000	15.00	7.000	5.000	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	700.0	1500.	700.0	1500.	500.0	700.0	700.0
V-S	500.0	1000.	700.0	500.0	200.0	200.0	150.0	1000.	1500.
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	V 50.00	N 50.00
Y-S	50.00	150.0	30.00	50.00	30.00	100.0	30.00	50.00	150.0
ZN-S	300.0	1500.	5000.	1500.	300.0	L 200.0	L 200.0	1500.	700.0
ZR-S	30.00	30.00	150.0	300.0	100.0	100.0	50.00	30.00	150.0
TA205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	65.00	110.0	70.00	80.00	40.00	25.00	30.00	45.00	110.0
PB-AA	200.0	G 1000.	580.0	280.0	H 45.00	H 45.00	H 45.00	G 1000.	H 55.00
ZN-AA	220.0	G 1000.	G 1000.	1000.	250.0	100.0	120.0	G 1000.	340.0
AG-AA	H 2.500	H 3.500	H 2.500	H 3.500	H 2.000	H 1.500	H 2.500	H 3.000	H 2.500



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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E MARGAS BETUMINOSAS

A M O S T R A S

VARIAVEL	JF0389J	JF0390H	JA0276C	JA0524A	JF0427	JF0394F	JF0425A	JF0425B	JF0426A
LATITUDE	0.2776E 05	0.2777E 05	0.2745F 05	0.2650E 05	0.2774E 05	0.2762E 05	0.2775E 05	0.2775E 05	0.2775E 05
LONGITUD	0.1448E 06	0.1449E 06	0.1442F 06	0.1463E 06	0.1448E 06	0.1445E 06	0.1448E 06	0.1448E 06	0.1448E 06
UTM-ABC	0.3646E 06	0.3634E 06	0.3843E 06	0.3189F 06	0.3558E 06	0.3725E 06	0.3667E 06	0.3667E 06	0.3655E 06
UTM-ORD	0.9148E 07	0.9147E 07	0.9157E 07	0.9186F 07	0.9148E 07	0.9152E 07	0.9148E 07	0.9148E 07	0.9148E 07
U. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	10.00	2.000	5.000	5.000	3.000	3.000	5.000	3.000	5.000
MG-S %	2.000	3.000	1.500	1.500	10.00	7.000	2.000	5.000	2.000
CA-S %	10.00	G 20.00	20.00	20.00	15.00	20.00	10.00	10.00	10.00
TI-S %	0.5000	0.1500	0.5000	0.2000	0.1500	0.2000	0.3000	0.1500	0.2000
YN-S	1000.	G 5000.	1500.	1000.	5000.	2000.	1000.	5000.	2000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	V 10.00	N 10.00
B-S	200.0	20.00	100.0	20.00	100.0	100.0	150.0	150.0	100.0
BA-S	700.0	5000.	500.0	2000.	2000.	G 5000.	500.0	2000.	300.0
BF-S	1.000	L 1.000	3.000	1.000	1.000	L 1.000	1.000	1.000	1.000
BT-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	L 10.00	L 10.00
CD-S	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00
CO-S	20.00	5.000	20.00	20.00	20.00	15.00	15.00	10.00	15.00
CR-S	100.0	30.00	50.00	100.0	70.00	100.0	100.0	70.00	100.0
CI-S	100.0	20.00	100.0	100.0	100.0	70.00	70.00	100.0	100.0
LI-S	150.0	50.00	200.0	50.00	50.00	50.00	50.00	20.00	70.00
MO-S	100.0	200.0	150.0	L 5.000	10.00	10.00	20.00	5.000	100.0
NB-S	10.00	L 10.00	10.00	20.00	10.00	10.00	10.00	10.00	10.00
NI-S	150.0	20.00	200.0	50.00	50.00	70.00	50.00	20.00	70.00
PB-S	70.00	30.00	150.0	50.00	200.0	70.00	100.0	150.0	100.0
SB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	5.000	10.00	10.00	10.00	15.00	10.00	5.000	10.00
SN-S	L 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1000.	1500.	1500.	200.0	1000.	1000.	500.0	500.0	500.0
V-S	700.0	200.0	700.0	150.0	100.0	200.0	1000.	100.0	1000.
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	150.0	15.00	150.0	30.00	20.00	30.00	30.00	20.00	30.00
ZN-S	300.0	L 200.0	500.0	N 200.0	1000.	300.0	N 200.0	500.0	200.0
ZR-S	500.0	30.00	150.0	100.0	50.00	100.0	100.0	20.00	100.0
TA205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	55.00	15.00	65.00	160.0	100.0	50.00	55.00	95.00	70.00
PB-AA	H 45.00	H 50.00	80.00	H 50.00	110.0	55.00	30.00	65.00	45.00
ZN-AA	250.0	140.0	430.0	50.00	1000.	400.0	120.0	760.0	200.0
AG-AA	H 1.500	H 2.500	H 2.000	H 2.000	H 2.000	H 1.500	N 0.5000	N 0.5000	N 0.5000





FOLHELHOS E MARGAS BETUMINOSAS

A M O S T R A S

VARIAVEL	JF04268	JF0429A	JF0071B	JF0072	JF0014C	JA0057C
LATITUDE	0.2775E 05	0.2776E 05	0.2612E 05	0.2613E 05	0.2661E 05	0.2569E 05
LONGITUD	0.1448E 06	0.1448E 06	0.1420E 06	0.1421E 06	0.1412E 06	0.1430E 06
UTM-ABC	0.3655E 06	0.3657E 06	0.4496E 06	0.4493E 06	0.4751E 06	0.4207E 06
UTM-ORD	0.9148E 07	0.9148E 07	0.9198E 07	0.9198E 07	0.9193E 07	0.9211E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	3.000	10.00	2.000	5.000	5.000
MG-S %	7.000	2.000	1.500	1.500	1.000	2.000
CA-S %	10.00	10.00	20.00	20.00	20.00	20.00
TI-S %	0.2000	0.2000	0.2000	0.1500	0.7000F-01	0.2000
MN-S	5000.	2000.	2000.	5000.	G 5000.	2000.
AG-S	N 0.5000	N 0.5000	2.000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0
AU-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	100.0	50.00	30.00	20.00	100.0
BA-S	G 5000.	700.0	700.0	200.0	500.0	500.0
BE-S	L 1.000	1.000	1.000	1.000	L 1.000	1.000
BI-S	N 10.00	L 10.00	V 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	V 20.00	N 20.00	20.00	N 20.00
CO-S	15.00	10.00	20.00	10.00	15.00	10.00
CR-S	100.0	70.00	70.00	70.00	50.00	100.0
CU-S	70.00	70.00	300.0	30.00	70.00	50.00
LA-S	20.00	20.00	100.0	70.00	50.00	100.0
MO-S	5.000	50.00	50.00	30.00	30.00	30.00
NB-S	10.00	10.00	10.00	L 10.00	L 10.00	10.00
NI-S	50.00	50.00	70.00	20.00	70.00	50.00
PB-S	50.00	100.0	500.0	50.00	2000.	50.00
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	10.00	10.00	15.00	10.00	5.000	10.00
SN-S	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	700.0	700.0	500.0	500.0	1000.
V-S	100.0	1000.	200.0	100.0	300.0	150.0
W-S	N 50.00	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	20.00	30.00	50.00	30.00	50.00
ZN-S	L 200.0	200.0	200.0	N 200.0	1500.	N 200.0
ZR-S	50.00	70.00	200.0	70.00	50.00	100.0
TA205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	B 0.0	B 0.0	0.1300	B 0.0
ZN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	0.2000	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	35.00	65.00	290.0	30.00	60.00	30.00
PR-AA	15.00	40.00	270.0	20.00	G 1000.	25.00
ZN-AA	100.0	280.0	350.0	150.0	G 1000.	110.0
AG-AA	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELOS E SILTITOS II

A M O S T R A S

VARIABLE	JF0004A	JF0006C	JF0010A	JF0054	JF0064	JF0205	JF0205B	JF0206A	JF0046A
LATITUDE	0.2603E 05	0.2604E 05	0.2643E 05	0.2644E 05	0.2649E 05	0.2670E 05	0.267CE 05	0.2669E 05	0.2649E 05
LONGITUD	0.1420E 06	0.1420F 06	0.1417E 06	0.1417E 06	0.1418E 06	0.1406E 06	0.1406E 06	0.1406E 06	0.1415E 06
UTM-ABC	0.4515E 06	0.4512E 06	0.4599E 06	0.4597E 06	0.4570E 06	0.4939E 06	0.4939E 06	0.4938E 06	0.4674E 06
UTM-JRD	0.9201E 07	0.9200E 07	0.9188F 07	0.9188E 07	0.9137E 07	0.9100E 07	0.9180E 07	0.9180E 07	0.9137E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	5.000	10.00	10.00	5.000	7.000	5.000	20.00	7.000
MG-S %	1.500	1.500	1.500	1.500	1.000	1.500	1.500	1.500	1.500
CA-S %	0.7000	15.00	0.7000	1.300	0.7000	5.000	0.7000	1.500	1.500
TI-S %	0.7000	0.3000	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000
MN-S	500.0	S 5000.	500.0	700.0	300.0	5000.	1000.	1500.	1000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	3.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	150.0	100.0	150.0	150.0	100.0	100.0	150.0	150.0	150.0
BA-S	700.0	300.0	700.0	700.0	700.0	700.0	1000.	700.0	700.0
BE-S	3.000	1.000	3.000	3.000	1.000	1.000	1.500	1.000	3.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	V 20.00	N 20.00	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00
CO-S	10.00	7.000	30.00	30.00	15.00	15.00	20.00	50.00	20.00
CR-S	100.0	70.00	150.0	150.0	100.0	150.0	70.00	200.0	100.0
CU-S	10.00	30.00	150.0	150.0	70.00	100.0	200.0	200.0	70.00
LA-S	50.00	70.00	70.00	70.00	30.00	70.00	30.00	20.00	50.00
MO-S	V 5.000	5.000	N 5.000	L 5.000	L 5.000	L 5.000	N 5.000	15.00	L 5.000
NR-S	20.00	L 10.00	20.00	20.00	20.00	20.00	15.00	15.00	20.00
NI-S	50.00	30.00	150.0	150.0	50.00	70.00	50.00	50.00	50.00
PB-S	15.00	50.00	70.00	20.00	10.00	15.00	15.00	500.0	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	70.00	70.00	H 15.00	15.00	15.00	50.00	20.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	500.0	150.0	100.0	N 100.0	150.0	L 100.0	500.0	150.0
V-S	150.0	70.00	500.0	500.0	70.00	100.0	150.0	500.0	150.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	50.00	50.00	70.00	50.00	50.00	50.00	20.00	70.00
ZN-S	N 200.0	N 200.0	N 200.0	L 200.0	N 200.0	N 200.0	N 200.0	1000.	N 200.0
ZR-S	500.0	30.00	150.0	500.0	G 1000.	500.0	500.0	150.0	300.0
CU-AA	10.00	30.00	65.00	55.00	55.00	55.00	260.0	110.0	55.00
PB-AA	15.00	H 35.00	40.00	25.00	15.00	H 20.00	15.00	160.0	25.00
ZN-AA	40.00	30.00	45.00	85.00	70.00	35.00	45.00	700.0	50.00
AG-AA	H 0.5000	H 1.500	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.500	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AII-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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LISTAGEM DE MATRIZ PRESTA

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S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JF0004A	JF0006C	JF0010A	JF0054	JF0064	JF0205	JF0205B	JF0206A	JF0046A
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHINHOS E SILTITOS II

A M O S T R A S

VARIABLE	JF0229B	JF0118	JF0159D	JF0211B	JF0212	JF0213B	JF0223	JF0014D	JA0066
LATITUDE	0.2648E 05	0.2608E 05	0.2650E 05	0.2682E 05	0.2682E 05	0.2681E 05	0.2690E 05	0.2661E 05	0.2561E 05
LONGITUD	0.1416E 06	0.1419E 06	0.1416E 06	0.1408E 05	0.1408E 06	0.1408E 06	0.1407E 06	0.1412E 06	0.1428E 06
UTM-ABC	0.4644E 06	0.4547E 06	0.4646E 06	0.4882E 05	0.4882E 06	0.4882E 06	0.4919E 06	0.4751E 06	0.4264E 06
UTM-ORD	0.9187E 07	0.9199E 07	0.9186E 07	0.9176E 07	0.9177E 07	0.9177E 07	0.9174E 07	0.9183E 07	0.9214E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	10.00	10.00	10.00	10.00	10.00	5.000	7.000	10.00	1.500
MG-S %	1.500	1.500	1.500	1.500	1.500	2.000	1.000	2.000	0.5000
CA-S %	1.000	0.7000	15.00	2.000	15.00	5.000	0.7000	0.7000	0.7000
TI-S %	0.7000	0.7000	0.5000	0.7000	0.2000	0.7000	0.7000	1.000	0.5000
MN-S	700.0	700.0	3000.	700.0	5000.	700.0	1000.	300.0	150.0
AG-S	N 0.5000	N 0.5000	1.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	0.7000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	150.0	150.0	150.0	30.00	15.00	70.00	100.0	150.0	200.0
BA-S	700.0	1000.	500.0	1500.	1000.	1500.	1000.	700.0	1500.
BE-S	3.000	3.000	1.500	3.000	1.000	1.500	1.500	1.500	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	30.00	30.00	70.00	20.00	5.000	20.00	50.00	50.00	7.000
CR-S	100.0	150.0	150.0	150.0	70.00	150.0	150.0	300.0	150.0
CU-S	100.0	100.0	150.0	100.0	7.000	30.00	70.00	150.0	20.00
LA-S	70.00	70.00	150.0	150.0	30.00	30.00	50.00	70.00	70.00
MO-S	N 5.000	N 5.000	15.00	70.00	10.00	5.000	5.000	5.000	N 5.000
NB-S	20.00	20.00	10.00	15.00	10.00	10.00	15.00	15.00	L 10.00
NI-S	100.0	100.0	150.0	100.0	30.00	100.0	150.0	200.0	20.00
PB-S	30.00	30.00	70.00	50.00	30.00	30.00	30.00	30.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	50.00	30.00	30.00	10.00	15.00	20.00	50.00	15.00
SN-S	N 10.00	N 10.00	N 10.00	H 10.00	N 10.00	H 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	150.0	500.0	300.0	200.0	200.0	L 100.0	100.0	L 100.0
V-S	200.0	500.0	300.0	100.0	50.00	100.0	150.0	200.0	700.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	50.00	100.0	100.0	50.00	30.00	100.0	100.0	20.00
ZN-S	N 200.0	N 200.0	N 200.0	200.0	N 200.0	300.0	N 200.0	N 200.0	L 200.0
ZR-S	200.0	200.0	150.0	200.0	300.0	150.0	500.0	500.0	150.0
CU-AA	60.00	60.00	110.0	50.00	15.00	25.00	35.00	65.00	5.000
PB-AA	20.00	25.00	60.00	30.00	H 30.00	H 20.00	20.00	20.00	20.00
ZN-AA	55.00	50.00	75.00	110.0	25.00	200.0	55.00	50.00	25.00
AG-AA	H 0.5000	H 0.5000	H 1.500	H 0.5000	H 1.500	H 0.5000	N 0.5000	H 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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LISTAGEM DE MATRIZ PRESTA

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S E A G

PROJETO - SANTANA

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FOLHELHOS E SIITITOS II

A M O S T R A S

VARIAVEL	JF00298	JF0118	JF01590	JF02118	JF0212	JF0213B	JF0223	JF00140	JA0066
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JA0089	JA0010B	JA0012	JA0028	JA0048B	JA0050	JA0057A	JA0069A	JM0002
LATITUDE	0.2551E 05	0.2634E 05	0.2633E 05	0.2564E 05	0.2568E 05	0.2567E 05	0.2569E 05	0.2562E 05	0.2723E 05
LONGITUD	0.1428E 06	0.1407E 06	0.1406E 06	0.1425E 06	0.1427E 06	0.1427E 06	0.1430E 06	0.1428E 06	0.1409E 06
UTM-ABC	0.4251E 06	0.4922E 06	0.4925E 06	0.4343E 06	0.4374E 06	0.4304E 06	0.4207E 06	0.4262E 06	0.4834E 06
UTM-ORD	0.9217E 07	0.9191E 07	0.9192E 07	0.9213E 07	0.9211E 07	0.9212E 07	0.9211E 07	0.9213E 07	0.9164E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	5.000	10.00	7.000	7.000	15.00	7.000	7.000	10.00
MG-S %	1.500	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	7.000	20.00	1.500	0.7000	5.000	0.7000	5.000	3.000	7.000
TI-S %	0.7000	0.1500	0.7000	0.7000	0.7000	0.7000	0.7000	0.7000	1.000
MY-S	700.0	1000.	500.0	1500.	500.0	500.0	1000.	1000.	1000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	1.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	15.00	150.0	70.00	200.0	150.0	50.00	150.0	50.00
BA-S	G 5000.	3000.	700.0	3000.	3000.	1000.	3000.	1000.	5000.
BE-S	2.000	1.000	2.000	2.000	3.000	1.500	2.000	3.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CD-S	15.00	10.00	50.00	30.00	10.00	30.00	20.00	50.00	30.00
CR-S	150.0	70.00	300.0	150.0	200.0	300.0	300.0	200.0	300.0
CU-S	70.00	30.00	150.0	30.00	30.00	150.0	50.00	150.0	30.00
LA-S	150.0	50.00	70.00	150.0	150.0	70.00	70.00	100.0	100.0
MO-S	50.00	N 5.000	10.00	N 5.000	N 5.000	N 5.000	10.00	7.000	L 5.000
NB-S	L 10.00	L 10.00	10.00	15.00	10.00	10.00	10.00	10.00	20.00
NI-S	100.0	30.00	150.0	100.0	50.00	150.0	150.0	150.0	150.0
PR-S	50.00	70.00	30.00	30.00	30.00	20.00	50.00	70.00	50.00
SB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	50.00	15.00	20.00	30.00	20.00	50.00	30.00
SN-S	N 10.00	N 10.00	N 10.00	H 10.00	H 10.00	N 10.00	H 10.00	H 10.00	H 10.00
SR-S	300.0	300.0	150.0	100.0	100.0	200.0	300.0	300.0	200.0
V-S	200.0	70.00	300.0	70.00	100.0	150.0	100.0	200.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	30.00	100.0	150.0	150.0	100.0	100.0	100.0	100.0
ZN-S	L 200.0	300.0	N 200.0	200.0	N 200.0	L 200.0	L 200.0	L 200.0	200.0
ZR-S	200.0	50.00	150.0	700.0	500.0	200.0	300.0	150.0	300.0
CU-AA	40.00	20.00	80.00	20.00	25.00	40.00	25.00	60.00	30.00
PB-AA	H 25.00	H 40.00	25.00	20.00	H 20.00	15.00	H 25.00	H 30.00	H 30.00
ZN-AA	80.00	140.0	45.00	120.0	60.00	55.00	60.00	45.00	75.00
AG-AA	H 0.5000	H 1.500	H 1.000	H 1.000	H 1.000	H 0.5000	H 1.000	H 1.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
E-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





FOLHELHOS E SILTITOS II

A M O S T R A S

VARIAVEL	JM0003	JM0004	JM0008	JM0008C	JM0011B	JM0028B	JF0335	JF0369A	JF0371
LATITUDE	0.2723E 05	0.2723E 05	0.2723F 05	0.2726F 05	0.2727E 05	0.2705E 05	0.2730E 05	0.2708E 05	0.2717E 05
LONGITJD	0.1409E 06	0.1409E 06	0.1410E 06	0.1410E 06	0.1410E 06	0.1434E 06	0.1414E 06	0.1411E 06	0.1410E 06
UTM-ABC	0.4835E 06	0.4837E 06	0.4820E 06	0.4820E 06	0.4820E 06	0.4075E 06	0.4684E 06	0.4793E 06	0.4830E 06
UTM-ORD	0.9164E 07	0.9164E 07	0.9164E 07	0.9163E 07	0.9163E 07	0.9169E 07	0.9162E 07	0.9169E 07	0.9166E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	15.00	15.00	15.00	20.00	15.00	10.00	15.00	15.00	15.00
MG-S %	2.000	2.000	2.000	2.000	5.000	5.000	2.000	2.000	3.000
CA-S %	1.500	1.000	5.000	2.000	2.000	20.00	2.000	2.000	5.000
TI-S %	G 1.000	0.7000	1.000	1.000	G 1.000	0.7000	1.000	1.000	0.5000
MN-S	700.0	700.0	700.0	1500.	1000.	1500.	1500.	2000.	3000.
AG-S	V 0.5000	1.500	1.000	N 0.5000	N 0.5000	V 0.5000	0.5000	N 0.5000	2.000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	70.00	100.0	150.0	150.0	100.0	70.00	200.0	200.0
BA-S	G 5000.	G 5000.	G 5000.	700.0	3000.	G 5000.	G 5000.	3000.	1000.
BE-S	3.000	3.000	3.000	3.000	2.000	2.000	3.000	3.000	2.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	V 20.00	N 20.00	N 20.00
CO-S	30.00	20.00	30.00	30.00	100.0	20.00	50.00	50.00	200.0
CR-S	500.0	300.0	300.0	300.0	300.0	300.0	500.0	300.0	300.0
CU-S	200.0	300.0	500.0	200.0	50.00	70.00	200.0	150.0	300.0
LA-S	150.0	100.0	150.0	50.00	50.00	30.00	200.0	70.00	70.00
MO-S	20.00	300.0	300.0	7.000	5.000	L 5.000	300.0	N 5.000	200.0
NB-S	30.00	20.00	30.00	30.00	30.00	15.00	30.00	30.00	15.00
NI-S	H 200.0	H 300.0	H 300.0	150.0	200.0	150.0	H 200.0	300.0	200.0
PB-S	70.00	100.0	70.00	50.00	30.00	50.00	70.00	30.00	500.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	30.00	30.00	30.00	30.00	30.00	20.00	50.00	50.00	50.00
SN-S	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00	H 10.00
SR-S	200.0	500.0	200.0	200.0	100.0	500.0	700.0	150.0	300.0
V-S	500.0	1000.	1000.	200.0	200.0	150.0	700.0	300.0	300.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	70.00	100.0	50.00	70.00	50.00	70.00	70.00	50.00
ZN-S	500.0	300.0	200.0	300.0	1500.	1500.	500.0	300.0	2000.
ZR-S	300.0	200.0	300.0	200.0	300.0	300.0	200.0	300.0	150.0
CU-AA	100.0	120.0	150.0	55.00	25.00	35.00	120.0	55.00	130.0
PB-AA	30.00	35.00	35.00	25.00	25.00	H 30.00	50.00	20.00	150.0
ZN-AA	110.0	110.0	90.00	130.0	690.0	510.0	100.0	65.00	940.0
AG-AA	H 1.000	H 1.500	H 1.000	H 1.000	H 1.000	H 1.500	H 1.000	H 1.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS II

A M O S T R A S

VARIABLE	JF0377	JF0380A	JA0142A	JA0142B	JA0150	JA0154A	JA0161	JA0168A	JA0170
LATITUDE	0.2719E 05	0.2722E 05	0.2762E 05	0.2762E 05	0.2764E 05	0.2768E 05	0.2169E 05	0.2737E 05	0.2737E 05
LONGITJD	0.1410E 06	0.1413E 06	0.1414E 06	0.1414E 06	0.1413E 06	0.1414E 06	0.1413E 06	0.1414E 06	0.1414E 06
UTM-ABC	0.4826E 06	0.4820E 06	0.4709E 06	0.4709E 06	0.4739E 06	0.4699E 06	0.4712E 06	0.4709E 06	0.4704E 06
UTM-ORD	0.9165E 07	0.9164E 07	0.9152E 07	0.9152E 07	0.9151E 07	0.9150E 07	0.9334E 07	0.9160E 07	0.9160E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	20.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
MG-S %	2.000	2.000	3.000	3.000	3.000	3.000	3.000	2.000	2.000
CA-S %	1.500	2.000	7.000	7.000	2.000	1.500	G 20.00	G 20.00	2.000
TI-S %	G 1.000	1.000	1.000	1.000	G 1.000	1.000	1.000	0.7000	G 1.000
MN-S	700.0	700.0	2000.	1500.	2000.	5000.	5000.	5000.	700.0
AG-S	0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
R-S	200.0	50.00	150.0	200.0	100.0	200.0	100.0	15.00	70.00
BA-S	3000.	G 5000.	5000.	3000.	G 5000.	3000.	G 5000.	5000.	5000.
BE-S	1.500	2.000	2.000	1.500	2.000	3.000	1.500	1.000	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	50.00	30.00	50.00	30.00	100.0	30.00	20.00	30.00
CR-S	500.0	500.0	300.0	200.0	300.0	500.0	300.0	150.0	200.0
CU-S	100.0	200.0	150.0	150.0	70.00	200.0	70.00	50.00	50.00
LA-S	50.00	150.0	50.00	50.00	50.00	70.00	100.0	100.0	100.0
MO-S	7.000	300.0	L 5.000	L 5.000	N 5.000	L 5.000	N 5.000	15.00	10.00
ND-S	30.00	30.00	30.00	30.00	20.00	20.00	10.00	L 10.00	20.00
VI-S	200.0	H 200.0	200.0	150.0	150.0	200.0	100.0	50.00	100.0
PB-S	30.00	100.0	50.00	20.00	30.00	50.00	100.0	50.00	70.00
SR-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	30.00	50.00	50.00	30.00	H 30.00	50.00	20.00	15.00	H 30.00
SN-S	H 10.00	H 15.00	H 10.00	H 10.00	H 10.00	H 10.00	N 10.00	N 10.00	N 10.00
SR-S	150.0	700.0	150.0	100.0	100.0	150.0	500.0	300.0	300.0
V-S	200.0	500.0	200.0	200.0	150.0	500.0	200.0	100.0	200.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	70.00	100.0	70.00	70.00	100.0	100.0	100.0	70.00
ZN-S	200.0	200.0	200.0	200.0	L 200.0	200.0	500.0	L 200.0	200.0
ZR-S	1000.	300.0	500.0	300.0	G 1000.	200.0	500.0	150.0	G 1000.
CU-AA	40.00	100.0	60.00	70.00	30.00	65.00	40.00	25.00	20.00
PB-AA	15.00	40.00	25.00	20.00	20.00	25.00	H 45.00	H 45.00	30.00
ZN-AA	70.00	95.00	75.00	60.00	70.00	50.00	180.0	35.00	65.00
AG-AA	H 1.000	H 1.000	H 1.500	H 1.500	H 1.500	H 1.000	H 1.500	H 2.500	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHEINHOS E SILTITOS II

A M O S T R A S

VARIAVEL	JA0172	JA0174	JA0176C	JA0187	JA0200	JA0203	JA0223B	JA0265A	JA0275B
LATITUDE	0.2757E 05	0.2756E 05	0.2756E 05	0.2750E 05	0.2743E 05	0.2736E 05	0.2698E 05	0.2727E 05	0.2742E 05
LONGITJD	0.1415E 06	0.1415E 06	0.1415E 06	0.1419E 05	0.1419E 06	0.1420E 06	0.1408E 06	0.1443E 06	0.1442E 06
UTM-ABC	0.4674E 06	0.4669E 06	0.4665E 06	0.4527E 06	0.4554E 06	0.4524E 06	0.4876E 06	0.3797E 06	0.3848E 06
UTM-ORD	0.9154E 07	0.9154E 07	0.9154E 07	0.9156E 07	0.9158E 07	0.9160E 07	0.9172E 07	0.9163E 07	0.9158E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	10.00	15.00	15.00	15.00	10.00	15.00	20.00	15.00	7.000
MG-S %	1.500	2.000	2.000	5.000	2.000	2.000	5.000	2.000	2.000
CA-S %	0.7000	2.000	1.000	3.000	5.000	1.000	2.000	1.000	G 20.00
TI-S %	G 1.000	1.000	G 1.000	1.000	1.000	G 1.000	1.000	0.7000	0.5000
MN-S	300.0	3000.	1000.	G 5000.	1000.	1000.	2000.	1000.	2000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	50.00	70.00	100.0	100.0	100.0	150.0	100.0	70.00
B4-S	G 5000.	G 5000.	1000.	3000.	G 5000.	G 5000.	3000.	3000.	1500.
BE-S	2.000	3.000	2.000	1.500	3.000	2.000	3.000	3.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	100.0	50.00	50.00	20.00	70.00	100.0	30.00	15.00
CR-S	300.0	300.0	300.0	700.0	300.0	200.0	300.0	200.0	150.0
CU-S	50.00	100.0	150.0	100.0	15.00	150.0	150.0	30.00	15.00
LA-S	100.0	100.0	100.0	30.00	70.00	50.00	70.00	70.00	70.00
MO-S	L 5.000	5.000	N 5.000	7.000	N 5.000	N 5.000	7.000	N 5.000	L 5.000
NB-S	30.00	30.00	30.00	20.00	30.00	30.00	20.00	20.00	L 10.00
NI-S	150.0	200.0	200.0	300.0	100.0	150.0	200.0	200.0	50.00
PB-S	30.00	70.00	70.00	50.00	50.00	70.00	70.00	30.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	H 50.00	50.00	50.00	30.00	H 30.00	H 20.00	30.00	30.00	15.00
SN-S	H 10.00	H 10.00	H 10.00	H 10.00	N 10.00	N 10.00	H 10.00	N 10.00	N 10.00
SR-S	150.0	150.0	100.0	300.0	300.0	150.0	200.0	150.0	1000.
V-S	200.0	300.0	300.0	300.0	100.0	200.0	300.0	200.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	100.0	70.00	70.00	30.00	100.0	50.00	70.00	70.00	70.00
ZN-S	200.0	L 200.0	300.0	200.0	L 200.0	200.0	L 200.0	300.0	L 200.0
ZR-S	G 1000.	500.0	500.0	500.0	G 1000.	G 1000.	700.0	200.0	200.0
CU-AA	15.00	45.00	45.00	35.00	5.000	35.00	55.00	25.00	15.00
PB-AA	20.00	25.00	25.00	30.00	15.00	35.00	30.00	25.00	H 30.00
ZN-AA	45.00	60.00	75.00	95.00	35.00	55.00	80.00	65.00	35.00
AG-AA	H 0.5000	H 0.5000	H 1.000	H 1.000	H 0.5000	H 1.000	H 1.000	H 1.000	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-CQL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JA0276B	JA0276D	JA0289	JA0267A	JA0275A	JA0337A	JF0389B	JF0392A	JF0394B
LATITUDE	0.2745E 05	0.2745E 05	0.2763E 05	0.2731E 05	0.2742E 05	0.2772E 05	0.2776E 05	0.2755E 05	0.2742E 05
LONGITUD	0.1442E 06	0.1442E 06	0.1451E 06	0.1443E 06	0.1442E 06	0.1455E 06	0.1448E 06	0.1447E 06	0.1446E 06
UTM-ABC	0.3843E 06	0.3843E 06	0.3571E 06	0.3793E 06	0.3348E 06	0.3445E 06	0.3646E 06	0.3696E 06	0.3725E 06
UTM-ORD	0.9157E 07	0.9157E 07	0.9152E 07	0.9161E 07	0.9158E 07	0.9149E 07	0.9148E 07	0.9154E 07	0.9158E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	5.000	10.00	20.00	15.00	10.00	7.000	15.00	10.00
MG-S %	5.000	10.00	1.500	1.500	2.000	1.500	2.000	2.000	2.000
CA-S %	G 20.00	G 20.00	1.000	2.000	0.5000	3.000	3.000	5.000	20.00
TI-S %	0.2000	0.2000	G 1.000	0.7000	1.000	0.5000	1.000	0.7000	1.000
MN-S	3000.	G 5000.	3000.	700.0	2000.	2000.	2000.	2000.	5000.
AG-S	V 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	V 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	50.00	100.0	100.0	100.0	100.0	100.0	100.0
BA-S	G 5000.	G 5000.	2000.	G 5000.	2000.	5000.	5000.	G 5000.	5000.
BE-S	L 1.000	L 1.000	3.000	3.000	7.000	2.000	1.500	1.500	1.500
BT-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	10.00	100.0	20.00	70.00	20.00	15.00	20.00	15.00
CR-S	100.0	100.0	200.0	300.0	300.0	150.0	150.0	200.0	200.0
CU-S	50.00	20.00	70.00	200.0	100.0	70.00	30.00	20.00	20.00
LA-S	50.00	50.00	70.00	50.00	100.0	30.00	70.00	50.00	70.00
MO-S	7.000	50.00	N 5.000	300.0	N 5.000	7.000	N 5.000	L 5.000	N 5.000
NB-S	L 10.00	L 10.00	50.00	20.00	20.00	15.00	20.00	20.00	20.00
VI-S	50.00	30.00	150.0	150.0	300.0	100.0	100.0	150.0	100.0
PB-S	50.00	30.00	50.00	50.00	30.00	100.0	300.0	20.00	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	7.000	7.000	30.00	30.00	30.00	20.00	30.00	20.00	20.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	2000.	1500.	150.0	2000.	150.0	150.0	200.0	100.0	300.0
V-S	500.0	50.00	150.0	500.0	200.0	150.0	100.0	100.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	15.00	20.00	100.0	30.00	200.0	50.00	50.00	50.00	70.00
ZN-S	200.0	N 200.0	L 200.0	L 200.0	200.0	500.0	300.0	L 200.0	L 200.0
ZR-S	100.0	70.00	700.0	150.0	200.0	500.0	700.0	300.0	1000.
CU-AA	70.00	20.00	45.00	130.0	60.00	60.00	25.00	25.00	15.00
PB-AA	50.00	50.00	35.00	35.00	35.00	60.00	130.0	25.00	40.00
ZN-AA	65.00	20.00	35.00	50.00	90.00	210.0	140.0	65.00	45.00
AG-AA	H 2.500	H 2.500	H 1.000	H 1.000	H 1.000	H 1.000	H 1.500	H 1.500	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





FOLHELHOS E SILTITOS II

A M O S T R A S

VARIABLE	JF0413B	JF0413J	JF0414A	JF0388B	JF0389A	JF0389G	JF0390B	JF0390E	JF0391A
LATITUDE	0.2758E 05	0.2758F 05	0.2782F 05	0.2775F 05	0.2776E 05	0.2776E 05	0.2777E 05	0.2777E 05	0.2774E 05
LONGITJD	0.1458E 06	0.1458E 06	0.1457E 06	0.1448E 05	0.1448E 06	0.1448E 06	0.1449E 06	0.1449E 06	0.1447E 06
UTM-ABC	0.3331E 06	0.3331E 06	0.3385F 06	0.3657F 06	0.3646E 06	0.3646E 06	0.3634F 06	0.3634F 06	0.3693E 06
UTM-ORD	0.9153E 07	0.9153E 07	0.9145E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9147E 07	0.9147E 07	0.9148E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	7.000	15.00	15.00	15.00	15.00	5.000	7.000	10.00
MG-S %	2.000	1.500	2.000	2.000	2.000	2.000	2.000	2.000	2.000
CA-S %	G 20.00	S 20.00	5.000	3.000	10.00	5.000	3.000	20.00	2.000
TI-S %	0.7000	0.7000	1.000	1.000	1.000	1.000	1.000	0.7000	1.000
MN-S	5000.	3000.	1500.	2000.	2000.	2000.	1500.	1000.	700.0
AG-S	0.7000	0.7000	0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000	0.7000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	50.00	100.0	100.0	100.0	150.0	100.0	500.0	150.0
BA-S	G 5000.	G 5000.	5000.	5000.	2000.	2000.	G 5000.	1000.	3000.
BE-S	2.000	1.500	3.000	2.000	2.000	3.000	2.000	3.000	3.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	20.00	50.00	30.00	20.00	30.00	15.00	20.00	50.00
CR-S	150.0	150.0	300.0	300.0	200.0	200.0	150.0	200.0	200.0
CU-S	50.00	70.00	30.00	30.00	30.00	200.0	70.00	200.0	150.0
LA-S	70.00	70.00	100.0	70.00	70.00	50.00	70.00	50.00	70.00
MO-S	L 5.000	N 5.000	N 5.000	N 5.000	N 5.000	20.00	N 5.000	7.000	10.00
NB-S	10.00	15.00	30.00	20.00	20.00	15.00	50.00	15.00	20.00
NI-S	150.0	100.0	200.0	200.0	200.0	200.0	70.00	150.0	200.0
PB-S	70.00	70.00	30.00	20.00	20.00	70.00	100.0	100.0	100.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	15.00	30.00	30.00	30.00	30.00	20.00	20.00	30.00
SN-S	N 10.00	N 10.00	H 10.00	H 10.00	H 10.00	H 10.00	N 10.00	H 10.00	H 10.00
SR-S	300.0	500.0	200.0	200.0	200.0	700.0	200.0	500.0	150.0
V-S	200.0	150.0	300.0	200.0	200.0	500.0	100.0	300.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	70.00	70.00	50.00	70.00	50.00	70.00	30.00	50.00
ZN-S	300.0	L 200.0	L 200.0	L 200.0	L 200.0	500.0	200.0	300.0	300.0
ZR-S	200.0	300.0	300.0	300.0	300.0	200.0	500.0	150.0	300.0
CU-AA	40.00	35.00	25.00	25.00	25.00	110.0	55.00	90.00	65.00
PB-AA	H 45.00	H 40.00	30.00	25.00	25.00	50.00	60.00	60.00	50.00
ZN-AA	110.0	45.00	55.00	70.00	65.00	140.0	50.00	95.00	120.0
AG-AA	H 2.000	H 2.500	H 1.500	H 1.500	H 1.500	H 2.000	H 1.000	H 1.500	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JF0391D	JF0393A	JF0393R	JF0394D	JF0395B	JF0396A	JF0396B	JF0401A	JF0413H
LATITUDE	0.2774E 05	0.2776E 05	0.2776F 05	0.2762F 05	0.2771E 05	0.2744E 05	0.2744E 05	0.2892E 05	0.2758E 05
LONGITUD	0.1447E 06	0.1447E 06	0.1447E 06	0.1445E 06	0.1445E 06	0.1443E 06	0.1443E 06	0.1456E 06	0.1458E 06
UTM-ABC	0.3693E 06	0.3695E 06	0.3695E 06	0.3725E 06	0.3707E 06	0.3802E 06	0.3802E 06	0.3415E 06	0.3331E 06
UTM-ORD	0.9148E 07	0.9147E 07	0.9147E 07	0.9152E 07	0.9149E 07	0.9157E 07	0.9157E 07	0.9112E 07	0.9153E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	10.00	10.00	15.00	15.00	3.000	15.00	15.00	15.00	7.000
MG-S %	3.000	2.000	2.000	3.000	2.000	2.000	3.000	3.000	1.500
CA-S %	G 20.00	20.00	3.000	15.00	G 20.00	3.000	2.000	2.000	1.500
TI-S %	0.7000	0.7000	1.000	0.7000	0.3000	1.000	1.000	1.000	0.5000
MN-S	3000.	G 5000.	2000.	1500.	G 5000.	1000.	1000.	1000.	500.0
AG-S	2.000	N 0.5000	N 0.5000	N 0.5000	0.7000	N 0.5000	0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	70.00	100.0	500.0	100.0	100.0	100.0	100.0	100.0
BA-S	G 5000.	5000.	5000.	G 5000.	G 5000.	G 5000.	G 5000.	2000.	700.0
BE-S	3.000	2.000	2.000	3.000	L 1.000	2.000	3.000	2.000	3.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	50.00	30.00	30.00	30.00	70.00	50.00	50.00	15.00
CR-S	200.0	200.0	300.0	300.0	100.0	300.0	300.0	500.0	150.0
CU-S	200.0	200.0	30.00	150.0	30.00	200.0	50.00	150.0	50.00
LA-S	100.0	70.00	100.0	200.0	30.00	50.00	70.00	100.0	70.00
MO-S	15.00	N 5.000	N 5.000	N 5.000	7.000	N 5.000	N 5.000	N 5.000	L 5.000
NB-S	10.00	20.00	20.00	15.00	L 10.00	30.00	30.00	30.00	20.00
NI-S	150.0	150.0	200.0	200.0	50.00	200.0	150.0	200.0	50.00
PB-S	100.0	100.0	50.00	50.00	100.0	70.00	50.00	70.00	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	20.00	20.00	30.00	10.00	30.00	30.00	50.00	20.00
SN-S	H 10.00	H 10.00	H 10.00	H 10.00	N 10.00	H 10.00	H 10.00	H 10.00	N 10.00
SR-S	2000.	100.0	100.0	1000.	2000.	200.0	150.0	150.0	300.0
V-S	500.0	150.0	200.0	700.0	500.0	200.0	200.0	300.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	70.00	70.00	100.0	30.00	70.00	70.00	100.0	20.00
ZN-S	200.0	200.0	300.0	200.0	L 200.0	200.0	200.0	200.0	L 200.0
ZR-S	150.0	300.0	300.0	200.0	100.0	500.0	500.0	700.0	150.0
CU-AA	100.0	120.0	25.00	60.00	30.00	95.00	25.00	55.00	30.00
PB-AA	60.00	60.00	60.00	55.00	60.00	45.00	15.00	25.00	20.00
ZN-AA	60.00	55.00	70.00	90.00	65.00	45.00	45.00	75.00	35.00
AG-AA	H 2.500	H 1.500	H 1.500	H 1.500	H 3.500	H 1.000	H 1.000	H 1.000	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

CPRM LISTAGEM DE MATRIZ PRESTA

S E A G PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS II

VARIÁVEL	A M O S T R A S								
	JF0391D	JF0393A	JF0393B	JF0394D	JF0395B	JF0396A	JF0396B	JF0401A	JF0413H
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P DRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIAVEL	JF0398A	JF0390A	JF0391B	JF0394A	JA0525A	JA0411A	JA0457A	JM0340	JA0354D
LATITUDE	0.2775E 05	0.2777E 05	0.2774F 05	0.2762E 05	0.2665E 05	0.2780E 05	0.2874F 05	0.2758E 05	0.2769F 05
LONGITJD	0.1448E 06	0.1449E 06	0.1447E 06	0.1445E 05	0.1465E 06	0.1460E 06	0.1458F 06	0.1467E 06	0.1460E 06
UTM-ABC	0.3657E 06	0.3634E 06	0.3693F 06	0.3725E 06	0.3116E 06	0.3280E 06	0.3362E 06	0.3063E 06	0.3294E 06
UTM-ORD	0.9148E 07	0.9147E 07	0.9148E 07	0.9152E 07	0.9182E 07	0.9146E 07	0.9117E 07	0.9153E 07	0.9150E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	7.000	10.00	7.000	7.000	3.000	10.00	10.00	5.000
MG-S %	1.500	1.500	2.000	2.000	2.000	2.000	2.000	2.000	1.000
CA-S %	1.500	1.500	3.000	1.000	2.000	5.000	2.000	1.500	5.000
TI-S %	0.7000	0.5000	0.7000	1.000	0.5000	0.5000	0.7000	0.5000	1.000
MN-S	100.0	500.0	200.0	700.0	700.0	1000.0	500.0	200.0	100.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	2.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	20.00	100.0	100.0	50.00	70.00	100.0	50.00	50.00
BA-S	200.0	500.0	1500.0	1000.0	700.0	1500.0	1000.0	500.0	200.0
BE-S	2.000	1.000	2.000	2.000	2.000	L 1.000	2.000	2.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	7.000	30.00	50.00	50.00	50.00	15.00	50.00	20.00
CR-S	200.0	100.0	150.0	200.0	150.0	100.0	100.0	100.0	100.0
CU-S	50.00	30.00	30.00	150.0	150.0	50.00	70.00	100.0	70.00
LA-S	100.0	50.00	70.00	100.0	150.0	50.00	100.0	50.00	50.00
MO-S	5.000	N 5.000	N 5.000	L 5.000	N 5.000	5.000	L 5.000	N 5.000	20.00
NB-S	20.00	L 10.00	15.00	20.00	10.00	15.00	20.00	20.00	15.00
NI-S	200.0	50.00	150.0	200.0	70.00	50.00	70.00	70.00	70.00
PB-S	70.00	30.00	30.00	50.00	50.00	20.00	50.00	50.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	70.00	15.00	30.00	50.00	20.00	15.00	20.00	20.00	15.00
SN-S	L 10.00	N 10.00	L 10.00	10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	L 100.0	200.0	150.0	100.0	100.0	200.0	N 100.0	200.0
V-S	150.0	100.0	150.0	150.0	100.0	100.0	100.0	100.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	70.00	50.00	150.0	100.0	100.0	30.00	50.00	30.00	50.00
ZN-S	300.0	N 200.0	200.0	300.0	200.0	N 200.0	L 200.0	L 200.0	N 200.0
ZR-S	700.0	100.0	700.0	700.0	200.0	500.0	200.0	150.0	500.0
CU-AA	55.00	25.00	20.00	100.0	100.0	25.00	40.00	70.00	45.00
PB-AA	50.00	25.00	25.00	30.00	H 25.00	H 15.00	H 30.00	H 30.00	15.00
ZN-AA	150.0	75.00	70.00	70.00	110.0	35.00	50.00	55.00	50.00
AG-AA	H 1.000	H 1.500	H 1.500	H 1.000	H 0.5000	H 0.5000	H 1.000	H 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	800.0	500.0	700.0	700.0	1300.0	600.0	800.0	350.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JA0354E	JA0355A	JA0355D	JA0359A	JA0372A	JA0374B	JA0405	JA0451	JA0456B
LATITUDE	0.2769E 05	0.2770E 05	0.2770E 05	0.2763F 05	0.2738E 05	0.2737E 05	0.2756E 05	0.2810E 05	0.2867E 05
LONGITUD	0.1460E 06	0.1460E 06	0.1460E 06	0.1458E 06	0.1455E 06	0.1455E 06	0.1457E 06	0.1460E 06	0.1460E 06
UTM-ABC	0.3294E 06	0.3279E 06	0.3279E 06	0.3338E 06	0.3450E 06	0.3441E 06	0.3376E 06	0.3281E 06	0.3283E 06
UTM-ORD	0.9150E 07	0.9149E 07	0.9149E 07	0.9151E 07	0.9159E 07	0.9159E 07	0.9154E 07	0.9137E 07	0.9119E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	5.000	5.000	7.000	10.00	5.000	5.000	10.00	10.00
MG-S %	0.7000	1.500	1.000	1.500	1.500	1.500	2.000	2.000	2.000
CA-S %	2.000	7.000	3.000	2.000	0.3000	0.5000	1.500	2.000	1.000
TI-S %	1.000	0.5000	0.5000	0.5000	1.000	0.5000	0.5000	0.3000	1.000
MN-S	300.0	2000.	1000.	700.0	700.0	2000.	500.0	500.0	700.0
AG-S	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
BA-S	5000.	2000.	2000.	G 5000.	5000.	700.0	2000.	2000.	700.0
BE-S	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	10.00	15.00	20.00	50.00	50.00	15.00	10.00	20.00
CR-S	100.0	100.0	100.0	150.0	150.0	150.0	100.0	150.0	200.0
CU-S	70.00	20.00	70.00	500.0	100.0	70.00	50.00	100.0	100.0
LA-S	50.00	50.00	50.00	70.00	70.00	70.00	70.00	50.00	100.0
MO-S	10.00	N 5.000	20.00	500.0	N 5.000	N 5.000	20.00	30.00	N 5.000
NB-S	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
NI-S	70.00	50.00	50.00	150.0	100.0	70.00	50.00	70.00	70.00
PB-S	50.00	30.00	50.00	50.00	50.00	50.00	100.0	50.00	50.00
SB-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	15.00	15.00	15.00	20.00	20.00	10.00	15.00	20.00
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	200.0	150.0	200.0	300.0	N 100.0	N 100.0	100.0	500.0	N 100.0
V-S	200.0	100.0	200.0	1000.	150.0	150.0	100.0	200.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	30.00	30.00	30.00	100.0	50.00	30.00	20.00	50.00
ZN-S	N 200.0	N 200.0	N 200.0	200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	G 1000.	300.0	300.0	200.0	200.0	200.0	500.0	100.0	300.0
CU-AA	25.00	15.00	40.00	260.0	50.00	45.00	20.00	70.00	10.00
PB-AA	20.00	5.000	15.00	35.00	20.00	20.00	45.00	20.00	45.00
ZN-AA	45.00	35.00	60.00	140.0	85.00	60.00	50.00	50.00	45.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





FOLHELHOS E SILTITOS II

A M O S T R A S

VARIABLE	JA0456C	JA0460A	JA0469A	JA0515B	JA0526A	JA0541A	JA0542A	JA0355C	JA0373A
LATITUDE	0.2867F 05	0.2889F 05	0.2799F 05	0.2592F 05	0.2664E 05	0.2678F 05	0.2678E 05	0.2770E 05	0.2737F 05
LONGITUD	0.1460E 06	0.1466E 06	0.1468F 06	0.1441E 06	0.1465E 06	0.1467E 06	0.1466F 06	0.1460F 06	0.1455E 06
UTM-ABC	0.3283E 06	0.3115E 06	0.3053F 06	0.3865F 06	0.3116F 06	0.3059E 06	0.3089E 06	0.3279E 06	0.3448E 06
UTM-ORD	0.9119E 07	0.9113E 07	0.9140F 07	0.9204E 07	0.9182E 07	0.9177E 07	0.9177E 07	0.9149E 07	0.9159E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	10.00	15.00	3.000	15.00	5.000	10.00	5.000	10.00
MG-S %	2.000	2.000	2.000	1.500	1.500	1.500	1.500	1.500	1.500
CA-S %	1.000	2.000	15.00	1.000	10.00	0.7000	1.000	3.000	3.000
TI-S %	1.000	0.7000	0.5000	0.3000	0.3000	1.000	0.5000	0.5000	0.3000
MN-S	500.0	500.0	700.0	1500.	1500.	200.0	500.0	1000.	5000.
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	70.00	100.0	50.00	50.00	50.00	50.00	50.00	50.00
BA-S	700.0	3000.	G 5000.	G 5000.	700.0	700.0	700.0	700.0	700.0
BE-S	1.000	1.500	1.000	2.000	1.000	1.000	2.000	1.500	2.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	20.00	15.00	15.00	15.00	15.00	20.00	20.00	30.00	30.00
CR-S	150.0	200.0	100.0	70.00	100.0	150.0	200.0	100.0	100.0
CU-S	100.0	100.0	50.00	20.00	200.0	70.00	150.0	70.00	150.0
LA-S	100.0	50.00	50.00	20.00	100.0	70.00	100.0	50.00	100.0
MO-S	N 5.000	70.00	20.00	N 5.000	20.00	N 5.000	5.000	5.000	20.00
VB-S	15.00	15.00	15.00	15.00	10.00	30.00	20.00	20.00	10.00
NI-S	70.00	70.00	70.00	50.00	200.0	70.00	70.00	70.00	70.00
PB-S	30.00	100.0	30.00	50.00	30.00	30.00	30.00	30.00	30.00
SB-S	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	20.00	15.00	10.00	20.00	20.00	20.00	15.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	200.0	200.0	N 100.0	100.0	200.0	200.0	200.0
V-S	200.0	200.0	100.0	50.00	100.0	100.0	200.0	150.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	20.00	50.00	50.00	50.00	50.00	30.00	30.00	50.00
ZN-S	200.0	N 200.0	N 200.0	N 200.0	300.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	300.0	150.0	200.0	500.0	150.0	500.0	150.0	150.0	150.0
CU-AA	55.00	60.00	20.00	10.00	130.0	35.00	85.00	45.00	130.0
PB-AA	10.00	30.00	10.00	15.00	15.00	15.00	15.00	10.00	20.00
ZN-AA	45.00	50.00	50.00	25.00	230.0	45.00	55.00	50.00	40.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## FOLHELHOS E SILTITOS II

VARIÁVEL	A M O S T R A S								
	JA0456C	JA0460A	JA0469A	JA0515B	JA0526A	JA0541A	JA0542A	JA0355C	JA0373A
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P CRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JA0373B	JA0376A	JA0385B	JA0418A	JA0418B	JA0463J	JA0527B	JA0541B	JA0541D
LATITUDE	0.2737E 05	0.2737E 05	0.2736F 05	0.2783F 05	0.2783E 05	0.2878E 05	0.2664E 05	0.2678E 05	0.2678E 05
LONGITUD	0.1455E 06	0.1455E 06	0.1455E 06	0.1451E 06	0.1451E 06	0.1468E 06	0.1465E 06	0.1467E 06	0.1467E 06
UTM-ABC	0.3448E 06	0.3440E 06	0.3447E 06	0.3256E 06	0.3256E 06	0.3030E 06	0.3115E 06	0.3059E 06	0.3059E 06
UTM-ORD	0.9159E 07	0.9159E 07	0.9160E 07	0.9145E 07	0.9145E 07	0.9116E 07	0.9182E 07	0.9177E 07	0.9177E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	3.000	15.00	7.000	7.000	7.000	7.000	5.000	7.000
MG-S %	1.000	1.500	1.500	2.000	2.000	2.000	1.500	1.500	1.500
CA-S %	1.500	20.00	1.500	5.000	10.00	10.00	3.000	1.000	1.000
TI-S %	0.7000	0.2000	0.3000	0.5000	0.5000	0.5000	1.000	1.000	1.000
MN-S	150.0	2000.	2000.	1000.	2000.	1000.	500.0	500.0	500.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	1.000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	70.00	20.00	20.00	50.00	50.00	50.00	50.00	50.00	50.00
BA-S	1000.	300.0	5000.	1000.	700.0	G 5000.	1000.	700.0	5000.
BE-S	1.500	L 1.000	2.000	1.500	1.000	1.500	1.000	1.500	1.000
BI-S	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	L 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	10.00	10.00	30.00	20.00	10.00	50.00	20.00	15.00	15.00
CR-S	150.0	100.0	50.00	100.0	150.0	150.0	200.0	150.0	150.0
CU-S	100.0	70.00	100.0	70.00	20.00	200.0	100.0	50.00	50.00
LA-S	100.0	20.00	50.00	70.00	70.00	30.00	100.0	70.00	70.00
MO-S	50.00	70.00	20.00	5.000	N 5.000	L 5.000	20.00	N 5.000	5.000
NB-S	20.00	L 10.00	20.00	20.00	20.00	15.00	20.00	20.00	20.00
NI-S	70.00	70.00	70.00	70.00	50.00	70.00	70.00	50.00	50.00
PB-S	150.0	20.00	500.0	50.00	20.00	100.0	50.00	30.00	20.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	15.00	10.00	15.00	15.00	15.00	15.00	20.00	15.00	15.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1000.	200.0	N 100.0	100.0	100.0	700.0	100.0	N 100.0	100.0
V-S	1000.	500.0	150.0	100.0	100.0	150.0	100.0	100.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	20.00	50.00	50.00	50.00	30.00	50.00	30.00	30.00
ZN-S	N 200.0	N 200.0	300.0	N 200.0	N 200.0	2000.	N 200.0	N 200.0	N 200.0
ZR-S	300.0	100.0	1000.	500.0	200.0	100.0	500.0	300.0	700.0
CU-AA	100.0	65.00	60.00	40.00	10.00	180.0	50.00	35.00	25.00
PB-AA	70.00	15.00	340.0	20.00	10.00	95.00	25.00	15.00	10.00
ZN-AA	20.00	40.00	200.0	55.00	40.00	G 1000.	60.00	50.00	30.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS II

A M O S T R A S

VARTAVEL	JA0542C	JA0573A	JA0364C	JA0374A	JA0411B	JA0418C	JA0469B	JA0486B	JA0542B
LATITUDE	0.2678E 05	0.2644E 05	0.2765E 05	0.2737E 05	0.2780E 05	0.2783E 05	0.2799E 05	0.2819E 05	0.2678E 05
LONGITJD	0.1466E 06	0.1464E 06	0.1457E 06	0.1455E 06	0.1463E 06	0.1461E 06	0.1468E 06	0.1464E 06	0.1466E 06
UTM-ABC	0.3089E 06	0.3167E 06	0.3375E 06	0.3441E 06	0.3293E 06	0.3256E 06	0.3053E 06	0.3173E 06	0.3089E 06
UTM-ORD	0.9177E 07	0.9188E 07	0.9151E 07	0.9159E 07	0.9146E 07	0.9145E 07	0.9140E 07	0.9134E 07	0.9177E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	7.000	5.000	7.000	5.000	7.000	5.000	5.000	10.00
MG-S %	1.500	1.500	2.000	2.000	2.000	2.000	2.000	10.00	1.500
CA-S %	1.500	2.000	5.000	1.000	3.000	1.500	10.00	20.00	1.000
TI-S %	0.3000	0.5000	0.5000	0.5000	0.7000	0.7000	0.7000	0.1000E 00	0.3000
MN-S	200.0	200.0	700.0	5000.	1000.	500.0	1000.	G 5000.	150.0
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N C.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	70.00	70.00	70.00	100.0	70.00	100.0	50.00	50.00
BA-S	3000.	700.0	5000.	700.0	1500.	1000.	1500.	200.0	1000.
BE-S	1.000	2.000	1.500	2.000	1.000	1.000	1.000	1.000	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	15.00	20.00	20.00	200.0	20.00	20.00	30.00	10.00	20.00
CR-S	150.0	100.0	100.0	200.0	150.0	150.0	200.0	70.00	100.0
CU-S	100.0	100.0	70.00	100.0	70.00	50.00	50.00	70.00	70.00
LA-S	50.00	70.00	70.00	70.00	70.00	70.00	100.0	20.00	50.00
MO-S	10.00	5.000	10.00	N 5.000	7.000	L 5.000	L 5.000	5.000	N 5.000
NB-S	15.00	20.00	20.00	20.00	20.00	20.00	15.00	L 10.00	20.00
NI-S	50.00	50.00	50.00	100.0	70.00	70.00	70.00	20.00	70.00
PB-S	50.00	50.00	50.00	30.00	50.00	20.00	30.00	20.00	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	15.00	20.00	15.00	15.00	20.00	10.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	N 100.0	200.0	100.0	N 100.0	100.0	100.0	100.0	200.0	N 100.0
V-S	150.0	150.0	150.0	150.0	100.0	150.0	100.0	100.0	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	30.00	50.00	70.00	50.00	50.00	50.00	20.00	20.00
ZN-S	N 200.0	N 200.0	N 200.0	200.0	N 200.0	N 200.0	L 200.0	300.0	L 200.0
ZR-S	100.0	150.0	1000.	200.0	500.0	500.0	200.0	30.00	150.0
CU-AA	65.00	75.00	30.00	70.00	35.00	20.00	25.00	55.00	55.00
PB-AA	20.00	15.00	15.00	15.00	15.00	L 5.000	10.00	10.00	15.00
ZN-AA	55.00	30.00	55.00	100.0	55.00	45.00	50.00	310.0	45.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



FOLHELHOS E SILTITOS II

A M O S T R A S

VARIÁVEL	JF0469	JM0299B	JM0300	JM0339A	JM0339B	JM0339D	JF0438	JF0440	JF0441
LATITUDE	0.2726E 05	0.2754E 05	0.2753F 05	0.2759F 05	0.2759E 05	0.2759E 05	0.2734E 05	0.2734E 05	0.2734E 05
LONGITUD	0.1467E 06	0.1466E 06	0.1466F 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1467E 06	0.1467E 06
UTM-ABC	0.3073E 06	0.3102E 06	0.3104E 06	0.3064E 06	0.3064E 06	0.3064E 06	0.3078E 06	0.3080F 06	0.3078E 06
UTM-ORD	0.9163E 07	0.9154E 07	0.9154E 07	0.9153E 07	0.9153E 07	0.9153E 07	0.916CE 07	0.9160E 07	0.9160E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	10.00	10.00	10.00	7.000	7.000	7.000	10.00	7.000	10.00
MG-S %	2.000	1.500	2.000	1.500	1.500	1.500	2.000	1.500	2.000
CA-S %	1.500	2.000	1.000	15.00	10.00	1.500	1.000	5.000	2.000
TI-S %	1.000	0.7000	0.5000	0.3000	0.2000	0.5000	0.5000	0.5000	0.3000
MN-S	1500.	200.0	500.0	5000.	5000.	1000.	2000.	5000.	700.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	50.00	20.00	20.00	20.00	50.00	50.00	50.00
BA-S	1000.	700.0	500.0	1000.	700.0	200.0	500.0	G 5000.	500.0
BE-S	1.500	1.000	1.000	1.000	1.500	1.500	2.000	2.000	1.500
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	50.00	10.00	20.00	30.00	20.00	30.00	100.0	150.0	20.00
CR-S	150.0	200.0	100.0	150.0	100.0	200.0	100.0	100.0	100.0
CU-S	100.0	70.00	70.00	70.00	70.00	70.00	100.0	200.0	200.0
LA-S	100.0	70.00	50.00	100.0	100.0	70.00	50.00	100.0	100.0
MO-S	N 5.000	5.000	N 5.000	L 5.000	L 5.000	N 5.000	N 5.000	500.0	50.00
NB-S	30.00	20.00	20.00	10.00	10.00	15.00	20.00	15.00	15.00
NI-S	70.00	50.00	70.00	70.00	70.00	70.00	100.0	700.0	100.0
PB-S	100.0	30.00	30.00	30.00	50.00	50.00	50.00	50.00	30.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	20.00	20.00	15.00	15.00	20.00	20.00	15.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	100.0	200.0	N 100.0	200.0	200.0	N 100.0	100.0	200.0	N 100.0
V-S	100.0	150.0	150.0	150.0	150.0	150.0	200.0	1000.	200.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	50.00	30.00	70.00	50.00	30.00	30.00	70.00	50.00
ZN-S	L 200.0	N 200.0	N 200.0	L 200.0	L 200.0	L 200.0	L 200.0	700.0	500.0
ZR-S	300.0	150.0	150.0	100.0	100.0	100.0	150.0	200.0	100.0
CU-AA	45.00	30.00	45.00	50.00	55.00	40.00	55.00	270.0	120.0
PB-AA	25.00	5.000	10.00	20.00	25.00	15.00	15.00	35.00	15.00
ZN-AA	55.00	25.00	30.00	140.0	140.0	100.0	65.00	640.0	280.0
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0





S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS E SILTITOS II

A M O S T R A S

VARIAVEL	JF0452	JF0488	JF0489	JF0524	JF0371A	JF0159C	JF0188C	JA0059A
LATITUDE	0.2732E 05	0.2750E 05	0.2749E 05	0.2744E 05	0.2612E 05	0.2650E 05	0.2653E 05	0.2582E 05
LONGITUDE	0.1457E 06	0.1468E 06	0.1468E 06	0.1455E 06	0.1422E 06	0.1416E 06	0.1406E 06	0.1430E 06
UTM-ABC	0.3080E 06	0.3033E 06	0.3035E 06	0.3096E 06	0.4496E 06	0.4646E 06	0.4933E 06	0.4193E 06
UTM-ORD	0.9161E 07	0.9155E 07	0.9155E 07	0.9157E 07	0.9198E 07	0.9186E 07	0.9185E 07	0.9207E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FF-S %	10.00	7.000	5.000	7.000	5.000	7.000	7.000	10.00
MG-S %	1.500	1.500	0.5000E-01	1.500	1.500	1.500	2.000	3.000
CA-S %	1.000	0.5000	L 0.5000E-01	1.000	5.000	2.000	20.00	1.500
TI-S %	0.5000	1.000	1.000	0.5000	0.5000	0.5000	0.5000	0.7000
MN-S	200.0	1000.	200.0	700.0	700.0	700.0	G 5000.	200.0
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	50.00	50.00	50.00	50.00	20.00	100.0	100.0	50.00
BA-S	500.0	700.0	300.0	700.0	700.0	700.0	500.0	700.0
BE-S	1.500	1.000	L 1.000	1.500	1.500	1.000	1.000	1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	V 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CD-S	20.00	30.00	5.000	20.00	30.00	15.00	30.00	30.00
CR-S	150.0	70.00	70.00	100.0	50.00	100.0	200.0	200.0
CU-S	100.0	70.00	20.00	70.00	30.00	100.0	70.00	100.0
LA-S	100.0	100.0	100.0	100.0	50.00	50.00	100.0	100.0
MO-S	V 5.000	N 5.000	L 5.000	N 5.000	5.000	L 5.000	L 5.000	V 5.000
NB-S	20.00	20.00	20.00	15.00	15.00	15.00	15.00	20.00
NI-S	50.00	70.00	15.00	50.00	70.00	50.00	70.00	70.00
PB-S	50.00	50.00	20.00	50.00	100.0	100.0	70.00	70.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	15.00	15.00	20.00	5.000	10.00	20.00	20.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	V 100.0	N 100.0	100.0	N 100.0	200.0	100.0	200.0	100.0
V-S	200.0	100.0	100.0	200.0	50.00	100.0	100.0	100.0
W-S	N 50.00	V 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	20.00	30.00	30.00	30.00	50.00	30.00	70.00	50.00
ZN-S	L 200.0	N 200.0	V 200.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	150.0	300.0	1000.	100.0	500.0	300.0	200.0	200.0
CU-AA	70.00	40.00	10.00	45.00	15.00	85.00	45.00	50.00
PB-AA	15.00	25.00	5.000	15.00	45.00	45.00	30.00	15.00
ZN-AA	60.00	55.00	10.00	45.00	15.00	30.00	65.00	75.00
AG-AA	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	900.0	700.0	700.0	600.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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BRECHA CALCARIA E MARGA BETUMINOSA DA ZONA MINERALIZADA

A M O S T R A S

VARIÁVEL	JF0006B	JF0018	JF0188A	JF0196	JF0195	JF0197	JF0213A	JF0006A	JF0014A
LATITUDE	0.2604E 05	0.2658E 05	0.2653E 05	0.2648E 05	0.2615E 05	0.2614E 05	0.2681E 05	0.2604E 05	0.2661E 05
LONGITUD	0.1420E 06	0.1409E 06	0.1406E 06	0.1405E 06	0.1406E 06	0.1405E 06	0.1408E 06	0.1420E 06	0.1412E 06
UTM-ABC	0.4512E 06	0.4842E 06	0.4933E 06	0.4927E 06	0.4953E 06	0.4975E 06	0.4882E 06	0.4512E 06	0.4751E 06
UTM-ORD	0.9200E 07	0.9184E 07	0.9185E 07	0.9187E 07	0.9197E 07	0.9197E 07	0.9177E 07	0.9200E 07	0.9183E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	15.00	15.00	5.000	3.000	7.000	3.000	5.000	7.000	15.00
MG-S %	1.000	0.7000	1.000	1.000	0.7000	1.000	1.000	2.000	10.00
CA-S %	20.00	20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	0.7000E-01	0.1000E 00	0.1500	0.7000E-01	0.1000E 00	0.1500	0.1000E 00	0.5000E-01	0.2000E-01
MN-S	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.	5000.	G 5000.	G 5000.	G 5000.
AG-S	N 0.5000	7.000	N 0.5000	N 0.5000	3.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	10.00	10.00	20.00	10.00	10.00	30.00	L 10.00	10.00	10.00
BA-S	150.0	150.0	700.0	150.0	300.0	300.0	150.0	150.0	70.00
BE-S	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	1.500	N 1.000	L 1.000	L 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	L 20.00	70.00	N 20.00	30.00	50.00	N 20.00	20.00	N 20.00
CO-S	50.00	70.00	20.00	10.00	7.000	10.00	30.00	30.00	10.00
CR-S	30.00	50.00	50.00	30.00	50.00	50.00	30.00	10.00	L 10.00
CU-S	150.0	150.0	70.00	30.00	70.00	100.0	200.0	70.00	30.00
LA-S	20.00	70.00	20.00	30.00	50.00	50.00	20.00	50.00	30.00
MD-S	150.0	100.0	70.00	20.00	70.00	200.0	20.00	100.0	30.00
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	L 10.00
NI-S	30.00	300.0	50.00	50.00	30.00	30.00	30.00	30.00	15.00
PB-S	700.0	1000.	1500.	200.0	10000.	5000.	500.0	G 0.2000E 05	700.0
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	L 5.000	5.000	7.000	7.000	5.000	7.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	700.0	1000.	700.0	700.0	200.0	500.0	200.0
V-S	500.0	1000.	700.0	700.0	1000.	700.0	70.00	150.0	100.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	150.0	30.00	100.0	50.00	100.0	20.00	50.00	20.00
ZN-S	300.0	1500.	5000.	200.0	1500.	3000.	2000.	1500.	L 200.0
ZR-S	30.00	30.00	150.0	50.00	30.00	50.00	20.00	50.00	10.00
TA205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BAQ-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	2.110	B 0.0
ZN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	0.3300	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
VA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	65.00	110.0	70.00	35.00	45.00	85.00	200.0	65.00	25.00
PB-AA	200.0	G 1000.	580.0	90.00	G 1000.	G 1000.	110.0	G 1000.	840.0
ZN-AA	220.0	G 1000.	G 1000.	310.0	G 1000.	G 1000.	G 1000.	G 1000.	220.0
AG-AA	H 2.500	H 3.500	H 2.500	H 2.000	H 3.000	H 2.500	H 3.500	N 0.5000	N 0.5000



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## BRECHA CALCARIA E MARGA BETUMINOSA DA ZONA MINERALIZADA

## A M O S T R A S

VARIÁVEL	JF0014C	JF0010B	JF0206B	JF0189B	JA0011
LATITUDE	0.2651E 05	0.2643F 05	0.2669F 05	0.2653E 05	0.2633E 05
LONGITUD	0.1412E 06	0.1417E 06	0.1406E 06	0.1406E 06	0.1406E 06
UTM-ABC	0.4751E 06	0.4599F 06	0.4938E 06	0.4933F 06	0.4924F 06
UTM-ORD	0.9183E 07	0.9188E 07	0.9180E 07	0.9185E 07	0.9192E 07
M. C.	39.00	39.00	39.00	39.00	39.00
FE-S %	5.000	7.000	1.000	7.000	2.000
MG-S %	1.000	5.000	1.000	2.000	1.000
CA-S %	20.00	G 20.00	G 20.00	1.500	G 20.00
TI-S %	0.7000E-01	0.7000E-01	0.5000E-01	1.000	0.5000E-01
MN-S	G 5000.	G 5000.	G 5000.	500.0	G 5000.
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	20.00	10.00	L 10.00	100.0	L 10.00
BA-S	500.0	70.00	70.00	500.0	100.0
BE-S	L 1.000	L 1.000	L 1.000	2.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	20.00	20.00	L 20.00	N 20.00	V 20.00
CO-S	15.00	20.00	5.000	20.00	5.000
CR-S	50.00	20.00	20.00	100.0	20.00
CU-S	70.00	70.00	30.00	70.00	200.0
LA-S	50.00	50.00	20.00	100.0	20.00
MO-S	30.00	50.00	15.00	N 5.000	15.00
NB-S	L 10.00	L 10.00	L 10.00	15.00	N 10.00
NI-S	70.00	50.00	10.00	70.00	15.00
PB-S	200.0	150.0	150.0	30.00	200.0
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	5.000	5.000	N 5.000	20.00	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	300.0	700.0	100.0	500.0
V-S	300.0	150.0	200.0	150.0	30.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	30.00	50.00	20.00	50.00	L 10.00
ZN-S	1500.	1000.	200.0	N 200.0	200.0
ZR-S	50.00	50.00	20.00	150.0	20.00
TA205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
ZR02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PB-Q %	0.1300	0.1000E 00	0.4600	B 0.0	B 0.0
ZN-Q %	0.2900	0.1800	0.4000E-01	B 0.0	B 0.0
FE-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
VA-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	60.00	60.00	35.00	60.00	(250.0)
PR-AA	G 1000.	G 1000.	G 1000.	10.00	90.00
ZN-AA	G 1000.	G 1000.	320.0	55.00	410.0
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000

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## BRECHA CALCARIA E MARGA BETUMINOSA DA ZONA MINERALIZADA

## A M O S T R A S

VARIAVEL	JF0014C	JF00108	JF0206B	JF0188B	JA0011
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AS-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SB-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CXCU-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MET PES	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W-CCL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SE-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	450.0	375.0	600.0	600.0	900.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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## FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA E INTERC.NO CALC.

## A M O S T R A S

VARIÁVEL	JF0282	JA0092A	JA0059B	JA0078	JM0008B	JF0389J	JF0390H	JA0276C	JA0524A
LATITUDE	0.2573E 05	0.2550E 05	0.2582E 05	0.2568E 05	0.2725E 05	0.2776E 05	0.2777E 05	0.2745E 05	0.2650E 05
LONGITUD.	0.1432E 06	0.1429E 06	0.1430E 06	0.1430E 06	0.1410E 06	0.1448E 06	0.1449E 06	0.1442E 06	0.1463E 06
UTM-ABC	0.4138E 06	0.4247E 06	0.4193E 06	0.4215E 06	0.4820E 06	0.3646E 06	0.3634E 06	0.3843E 06	0.3189E 06
UTM-ORD	0.9210E 07	0.9217E 07	0.9207E 07	0.9212E 07	0.9153E 07	0.9148E 07	0.9147E 07	0.9157E 07	0.9186E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	7.000	3.000	7.000	3.000	7.000	10.00	2.000	5.000	5.000
MG-S %	1.500	1.500	1.500	1.500	1.500	2.000	3.000	1.500	1.500
CA-S %	15.00	20.00	20.00	20.00	20.00	10.00	G 20.00	20.00	20.00
TI-S %	0.5000	0.1500	0.2000	0.2000	0.5000	0.5000	0.1500	0.5000	0.2000
MN-S	1500.	1500.	1500.	2000.	G 5000.	1000.	G 5000.	1500.	1000.
AG-S	10.00	N 0.5000	N 0.5000	N 0.5000	2.000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	30.00	100.0	15.00	100.0	200.0	20.00	100.0	20.00
BA-S	G 5000.	500.0	700.0	1500.	700.0	700.0	5000.	500.0	2000.
BE-S	1.000	1.500	1.000	L 1.000	3.000	1.000	L 1.000	3.000	1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	70.00	7.000	10.00	7.000	100.0	20.00	5.000	20.00	20.00
CR-S	100.0	70.00	70.00	70.00	200.0	100.0	30.00	50.00	100.0
CU-S	150.0	30.00	30.00	30.00	200.0	100.0	20.00	100.0	100.0
LA-S	100.0	30.00	100.0	30.00	100.0	150.0	50.00	200.0	50.00
MO-S	15.00	30.00	150.0	15.00	150.0	100.0	200.0	150.0	L 5.000
NR-S	L 10.00	L 10.00	L 10.00	L 10.00	15.00	10.00	L 10.00	10.00	20.00
NT-S	150.0	30.00	30.00	30.00	H 500.0	150.0	20.00	200.0	50.00
PB-S	700.0	70.00	70.00	70.00	100.0	70.00	30.00	150.0	50.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	20.00	7.000	15.00	7.000	20.00	15.00	5.000	10.00	10.00
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00
SR-S	1500.	700.0	1500.	500.0	700.0	1000.	1500.	1500.	200.0
V-S	500.0	200.0	200.0	150.0	1500.	700.0	200.0	700.0	150.0
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	50.00	30.00	100.0	30.00	150.0	150.0	15.00	150.0	30.00
ZN-S	1500.	300.0	L 200.0	L 200.0	700.0	300.0	L 200.0	500.0	N 200.0
ZR-S	300.0	100.0	100.0	50.00	150.0	500.0	30.00	150.0	100.0
CH-AA	80.00	40.00	25.00	30.00	110.0	55.00	15.00	65.00	160.0
PB-AA	280.0	H 45.00	H 45.00	H 45.00	H 55.00	H 45.00	H 50.00	80.00	H 50.00
ZN-AA	1000.	250.0	100.0	120.0	340.0	250.0	140.0	430.0	50.00
AG-AA	H 3.500	H 2.000	H 1.500	H 2.500	H 2.500	H 1.500	H 2.500	H 2.000	H 2.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	R 0.0	R 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1700.	375.0	1900.	1300.
									B 0.0





FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA E INTERC.NO CALC.

A M O S T R A S

VARIÁVEL	JF0427	JF0394F	JF0425A	JF0425B	JF0425A	JF0426B	JF0429A	JF0071B	JF0072
LATITUDE	0.2774E 05	0.2762E 05	0.2775F 05	0.2775F 05	0.2775E 05	0.2775E 05	0.2776F 05	0.2612E 05	0.2613F 05
LONGITUD	0.1448E 06	0.1446E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1420E 06	0.1421E 06
UTM-ABC	0.3658E 06	0.3725E 06	0.3667E 06	0.3667E 06	0.3655F 06	0.3655E 06	0.3657E 06	0.4496E 06	0.4493E 06
UTM-ORD	0.9148E 07	0.9152E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9198E 07	0.9198E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	3.000	3.000	5.000	3.000	5.000	5.000	3.000	10.00	2.000
MG-S %	10.00	7.000	2.000	5.000	2.000	7.000	2.000	1.500	1.500
CA-S %	15.00	20.00	10.00	10.00	10.00	10.00	10.00	20.00	G 20.00
TI-S %	0.1500	0.2000	0.3000	0.1500	0.2000	0.2000	0.2000	0.2000	0.1500
MN-S	5000.	2000.	1000.	5000.	2000.	5000.	2000.	2000.	5000.
AG-S	N 0.5000	N 0.5000	0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	2.000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	100.0	100.0	150.0	150.0	100.0	70.00	100.0	50.00	30.00
BA-S	2000.	G 5000.	500.0	2000.	300.0	G 5000.	700.0	700.0	200.0
BE-S	1.000	L 1.000	1.000	1.000	1.000	L 1.000	1.000	1.000	1.000
BI-S	N 10.00	N 10.00	L 10.00	L 10.00	L 10.00	N 10.00	L 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CE-S	20.00	15.00	15.00	10.00	15.00	15.00	10.00	20.00	10.00
CF-S	70.00	100.0	100.0	70.00	100.0	100.0	70.00	70.00	70.00
CG-S	100.0	70.00	70.00	100.0	100.0	70.00	70.00	300.0	30.00
CH-S	50.00	50.00	50.00	20.00	70.00	20.00	20.00	100.0	70.00
CI-S	10.00	10.00	20.00	5.000	100.0	5.000	50.00	50.00	30.00
CJ-S	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	L 10.00
CK-S	50.00	70.00	50.00	20.00	70.00	50.00	50.00	70.00	20.00
CL-S	200.0	70.00	100.0	150.0	100.0	50.00	100.0	500.0	50.00
CM-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
CN-S	10.00	15.00	10.00	5.000	10.00	10.00	10.00	15.00	10.00
CO-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CP-S	1000.	1000.	500.0	500.0	500.0	500.0	700.0	700.0	500.0
CQ-S	100.0	200.0	1000.	100.0	1000.	100.0	1000.	200.0	100.0
CR-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
CS-S	20.00	30.00	30.00	20.00	30.00	20.00	20.00	30.00	50.00
CT-S	1000.	300.0	N 200.0	500.0	200.0	L 200.0	200.0	200.0	N 200.0
CU-S	50.00	100.0	100.0	20.00	100.0	50.00	70.00	200.0	70.00
CV-S	100.0	50.00	55.00	95.00	70.00	35.00	65.00	290.0	30.00
CW-S	110.0	55.00	30.00	65.00	45.00	15.00	40.00	270.0	20.00
CX-S	1000.	400.0	120.0	760.0	200.0	100.0	280.0	350.0	150.0
CY-S	H 2.000	H 1.500	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CA-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CB-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CC-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CF-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CG-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CH-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CJ-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CK-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CM-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CN-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CP-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CQ-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CS-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CT-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CV-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CW-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CX-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CY-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CZ-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
DA-INS	900.0	1100.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	1600.	700.0
DB-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



## FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA E INTERC.NO CALC.

## A M O S T R A S

VARIAVEL	JA0057C
LATITUDE	0.2569E 05
LONGITUD	0.1430E 06
UTM-ABC	0.4207E 06
UTM-ORD	0.9211E 07
M. C.	39.00
FE-S %	5.000
MG-S %	2.000
CA-S %	20.00
TI-S %	0.2000
MN-S	2000.
AG-S	N 0.5000
AS-S	N 200.0
AU-S	N 10.00
R-S	100.0
BA-S	500.0
BE-S	1.000
BI-S	N 10.00
CD-S	N 20.00
CO-S	10.00
CR-S	100.0
CU-S	50.00
LA-S	100.0
MO-S	30.00
NB-S	10.00
NI-S	50.00
PH-S	50.00
SB-S	N 100.0
SC-S	10.00
SN-S	N 10.00
SR-S	1000.
V-S	150.0
W-S	N 50.00
Y-S	50.00
ZN-S	N 200.0
ZR-S	100.0
CU-AA	30.00
PR-AA	25.00
ZN-AA	110.0
AG-AA	N 0.5000
CO-AA	B 0.0
NI-AA	B 0.0
BI-AA	B 0.0
CD-AA	B 0.0
TE-AA	B 0.0
AU-AA	B 0.0
TI-COL %	B 0.0
HG-INS	B 0.0
F-INS	1000.
STINS %	B 0.0

CPRM LISTAGEM DE MATRIZ PRESTA

27.05.76 FLA. 48

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA E INTERC.NO CALC.

A M O S T R A S

VARIÁVEL JAC057C

C-INS %	B 0.0
PH	B 0.0
AU-P CRG	B 0.0
AU-P ANL	B 0.0
	B 0.0
	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

GIPSITA

A M O S T R A S

VARIÁVEL	JM0005	JM0029	JA0223C	JF0389E	JF0389H	JF0391E	JF0393D	JF0395C	JF0396D
LATITUDE	0.2723E 05	0.2706E 05	0.2698E 05	0.2776E 05	0.2775E 05	0.2774E 05	0.2776E 05	0.2771E 05	0.2744E 05
LONGITUD	0.1439E 06	0.1434E 06	0.1408E 06	0.1448F 06	0.1449E 06	0.1447E 06	0.1447E 06	0.1446E 06	0.1443E 06
UTM-ABC	0.4837E 06	0.4080E 06	0.4876F 06	0.3645E 06	0.3646E 06	0.3693E 06	0.3695E 06	0.3707E 06	0.3802E 06
UTM-ORD	0.9164E 07	0.9169E 07	0.9172E 07	0.9149E 07	0.9148E 07	0.9148E 07	0.9147E 07	0.9149E 07	0.9157E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.1000E 00	0.1000E 00	0.2000	3.000	L 0.5000E-01	L 0.5000E-01	0.7000E-01	L 0.5000E-01	L 0.5000E-01
MG-S %	0.7000E-01	0.2000	0.1000E 00	1.500	0.2000E-01	0.7000	1.500	L 0.2000E-01	0.1000E 00
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	20.00
TI-S %	0.1000E-01	0.5000E-01	0.1000E-01	0.2000	0.5000E-02	0.5000E-02	0.2000E-01	C.5000E-02	0.2000E-01
MN-S	150.0	300.0	300.0	2000.	150.0	200.0	300.0	N 10.00	150.0
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	N 10.00	N 10.00	70.00	N 10.00	N 10.00	50.00	N 10.00	N 10.00
BA-S	100.0	1500.	200.0	3000.	500.0	N 20.00	30.00	N 20.00	N 20.00
BE-S	N 1.000	N 1.000	N 1.000	L 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	N 5.000	N 5.000	V 5.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
CR-S	N 10.00	N 10.00	V 10.00	100.0	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CU-S	L 5.000	5.000	L 5.000	20.00	5.000	L 5.000	5.000	N 5.000	N 5.000
LA-S	20.00	20.00	20.00	30.00	20.00	20.00	20.00	20.00	20.00
MO-S	N 5.000	N 5.000	L 5.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
NR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	N 5.000	N 5.000	V 5.000	30.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
PB-S	20.00	15.00	20.00	50.00	20.00	20.00	500.0	10.00	L 10.00
SP-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	V 5.000	7.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1000.	G 5000.	G 5000.	3000.	H 1000.	H 1000.	H 1000.	H 500.0	H 300.0
V-S	20.00	50.00	20.00	300.0	20.00	20.00	20.00	20.00	10.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	L 10.00	L 10.00	L 10.00	15.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
ZN-S	N 200.0	L 200.0	L 200.0	L 200.0	200.0	200.0	L 200.0	200.0	200.0
ZR-S	L 10.00	L 10.00	N 10.00	70.00	N 10.00	N 10.00	N 10.00	N 10.00	20.00
S102 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 R. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIÁVEL	JM0005	JM0029	JA0223C	JF0389E	JF0389H	JF0391E	JF0393D	JF0395C	JF0396D
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB275-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
M4-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
M0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CR %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOI.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	5.000	5.000	5.000	15.00	5.000	5.000	5.000	L 5.000	5.000
PR-AA	10.00	H 15.00	H 15.00	50.00	H 15.00	H 20.00	60.00	H 10.00	H 15.00
ZN-AA	5.000	5.000	5.000	35.00	10.00	5.000	5.000	5.000	5.000
AG-AA	H 1.000	H 1.000	H 1.000	H 2.500	H 1.000	H 1.000	H 1.500	H 1.000	H 1.000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COI %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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A M O S T R A S

VARIÁVEL	JF0401C	JF0414B	JF0388C	JF0388D	JF0389C	JF0389D	JF0389I	JF0390C	JF0390G
LATITUDE	0.2892E 05	0.2782E 05	0.2775E 05	0.2775E 05	0.2775E 05	0.2776E 05	0.2776E 05	0.2777E 05	0.2777E 05
LONGITUD	0.1456E 06	0.1457E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1448E 06	0.1449E 06	0.1449E 06
UTM-ARC	0.3415E 06	0.3385E 06	0.3657E 06	0.3657E 06	0.3657E 06	0.3646E 06	0.3646E 06	0.3634E 06	0.3634E 06
UTM-ORD	0.9112E 07	0.9145E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9148E 07	0.9147E 07	0.9147E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.1500	L 0.5000E-01	7.000	0.7000E-01	1.000	0.3000	0.5000E-01	0.5000E-01	0.1000E 00
MG-S %	0.5000E-01	L 0.2000E-01	2.000	0.1000E 00	0.5000	1.500	0.1000E 00	0.7000E-01	0.1000E 00
CA-S %	G 20.00	G 20.00	10.00	G 20.00	20.00	G 20.00	G 20.00	G 20.00	20.00
TI-S %	0.5000E-01	0.5000E-02	0.7000	0.5000E-02	0.2000	0.7000E-01	0.1000E-01	0.2000E-02	0.3000E-01
MN-S	30.00	N 10.00	700.0	L 10.00	300.0	1000.	10.00	10.00	300.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	N 10.00	150.0	N 10.00	100.0	L 10.00	L 10.00	L 10.00	L 10.00
BA-S	N 70.00	N 20.00	3000.	L 20.00	300.0	70.00	50.00	20.00	300.0
BE-S	N 1.000	N 1.000	2.000	L 1.000	1.000	L 1.000	L 1.000	L 1.000	L 1.000
BT-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	L 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	N 5.000	N 5.000	30.00	L 5.000	5.000	L 5.000	L 5.000	L 5.000	L 5.000
CR-S	N 10.00	N 10.00	100.0	L 10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00
CU-S	L 5.000	N 5.000	50.00	L 5.000	7.000	L 5.000	L 5.000	L 5.000	L 5.000
LA-S	N 20.00	N 20.00	50.00	30.00	30.00	20.00	30.00	20.00	30.00
MO-S	N 5.000	N 5.000	30.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
NB-S	L 10.00	L 10.00	15.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	N 5.000	N 5.000	300.0	N 5.000	10.00	L 10.00	L 10.00	L 10.00	L 10.00
PB-S	N 15.00	N 10.00	500.0	L 10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	20.00	N 5.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	H 1000.	N 1000.	3000.	1000.	G 5000.	G 5000.	G 5000.	G 5000.	G 5000.
V-S	N 20.00	N 50.00	300.0	20.00	70.00	70.00	50.00	50.00	50.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	L 10.00	L 10.00	100.0	L 10.00	20.00	L 10.00	10.00	10.00	10.00
ZN-S	N 200.0	L 200.0	1500.	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0
ZR-S	30.00	N 10.00	G 1000.	L 10.00	150.0	L 10.00	L 10.00	L 10.00	L 10.00
SI02 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	B 0.0	B 0.0	8.900	32.50	37.10	32.00	31.90	32.50	32.80
NA2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TIO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



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A M O S T R A S

VARIAVEL	JF0401C	JF0414B	JF0388C	JF0388D	JF0389C	JF0389D	JF0389I	JF0390C	JF0390G
MNO-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q	B 0.0	B 0.0	9.300	47.20	41.60	43.10	47.40	47.00	45.40
V205-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NR205-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q	B 0.0	B 0.0	0.1000E-01	1.0100E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L C.1000E-01	L 0.1000E-01
CAF2-C	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB	B 0.0	B 0.0	16.20	20.20	20.20	23.20	20.30	20.30	21.10
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q	B 0.0	B 0.0	11.60	0.3000	1.500	0.3000	0.2000	L 0.1000E 00	0.3000
R.INSCL.	B 0.0	B 0.0	49.00	0.3000	0.9000	1.200	0.4000	0.3000	0.6000
NR+TA-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	5.000	5.000	30.00	L 5.000	5.000	5.000	L 5.000	L 5.000	L 5.000
PB-AA	H 20.00	H 10.00	170.0	H 10.00	H 15.00	H 20.00	H 10.00	H 10.00	H 15.00
ZN-AA	5.000	5.000	G 1000.	5.000	10.00	10.00	5.000	5.000	L 5.000
AG-AA	H 1.000	H 1.000	H 1.000	H 1.000	H 1.000	H 1.500	H 1.000	H 1.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
RI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	750.0	L 50.00	75.00	L 50.00	L 50.00	L 50.00	L 50.00
S-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P CRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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A M O S T R A S

VARIÁVEL	JF0391C	JF0392D	JF0393C	JF0394C	JF0394E	JF0396C	JF0413D	JF0413F	JF0397
LATITUDE	0.2774E 05	0.2775E 05	0.2776E 05	0.2762E 05	0.2762E 05	0.2744E 05	0.2758E 05	0.2758E 05	0.2777E 05
LONGITUD	0.1447E 06	0.1447E 06	0.1447E 06	0.1445E 06	0.1445E 06	0.1443E 06	0.1458E 06	0.1458E 06	0.1457E 06
UTM-ARC	0.3693E 06	0.3696E 06	0.3695E 06	0.3725E 06	0.3725E 06	0.3802E 06	0.3331E 06	0.3331E 06	0.3367E 06
UTM-ORD	0.9148E 07	0.9148E 07	0.9147E 07	0.9152E 07	0.9152E 07	0.9157E 07	0.9153E 07	0.9153E 07	0.9147E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.7000E-01	0.7000E-01	0.7000	L 0.5000E-01	L 0.5000E-01	0.7000E-01	3.000	L 0.5000E-01	3.000
MG-S %	1.000	0.1000E 00	1.500	0.5000E-01	0.3000E-01	0.5000E-01	1.000	C.2000E-01	0.7000
CA-S %	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	15.00
TI-S %	0.2000E-02	0.7000E-02	0.3000E-01	0.2000E-01	0.3000E-02	0.5000E-02	0.1500	C.2000E-02	0.5000
MN-S	1000.	L 10.00	500.0	20.00	L 10.00	15.00	700.0	L 10.00	700.0
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	L 10.00	20.00	N 10.00	L 10.00	N 10.00	N 10.00	V 10.00	50.00
BA-S	100.0	30.00	50.00	20.00	N 20.00	L 20.00	500.0	20.00	500.0
BE-S	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	L 1.000	1.000	L 1.000	2.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	L 5.000	L 5.000	L 5.000	L 5.000	L 5.000	L 5.000	7.000	L 5.000	7.000
CR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	50.00	L 10.00	50.00
CU-S	L 5.000	L 5.000	5.000	10.00	L 5.000	L 5.000	30.00	L 5.000	20.00
LA-S	30.00	20.00	20.00	30.00	30.00	30.00	30.00	30.00	20.00
MO-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	5.000	N 5.000	5.000
NR-S	N 10.00	N 10.00	L 10.00	L 10.00	L 10.00	L 10.00	10.00	L 10.00	10.00
NI-S	N 5.000	N 5.000	V 5.000	N 5.000	N 5.000	N 5.000	30.00	N 5.000	50.00
PR-S	L 10.00	L 10.00	30.00	50.00	15.00	L 10.00	20.00	L 10.00	20.00
SB-S	100.0	100.0	N 100.0	N 100.0	N 100.0	N 100.0	100.0	N 100.0	100.0
SC-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	5.000	N 5.000	5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	10.00	N 10.00	10.00
SR-S	N 5000.	N 5000.	N 5000.	N 5000.	N 5000.	N 5000.	5000.	N 5000.	5000.
V-S	G 30.00	G 50.00	G 50.00	G 50.00	G 50.00	G 50.00	70.00	30.00	70.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	50.00	N 50.00	50.00
Y-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	20.00	L 10.00	20.00
ZN-S	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	200.0	L 200.0	200.0
ZR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	50.00	L 10.00	150.0
SI02 T. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L. %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	32.50	32.20	32.50	32.70	32.50	32.20	29.50	32.20	26.40
NA2O-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K2O-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE2O3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P2O5-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIÁVEL	JF0391C	JF0392B	JF0393C	JF0394C	JF0394E	JF0396C	JF0413D	JF0413E	JF0397
MND-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	45.70	47.00	45.20	46.60	46.70	46.20	35.00	45.50	31.50
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
VB275-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MD-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SND2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CR %	21.70	20.50	20.90	20.40	20.40	20.60	17.20	20.70	16.10
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	0.2000	0.3000	0.6000	0.3000	0.2000	0.9000	4.700	1.100	L 0.1000E 00
R. INSOL.	0.3000	0.4000	0.7000	0.5000	0.3000	0.2000	10.00	0.1000E 00	17.40
VR+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	L 5.000	L 5.000	5.000	5.000	L 5.000	L 5.000	10.00	L 5.000	5.000
PB-AA	H 15.00	H 10.00	H 15.00	H 20.00	H 15.00	H 15.00	H 20.00	H 10.00	H 20.00
ZN-AA	5.000	5.000	40.00	5.000	10.00	5.000	15.00	5.000	20.00
AG-AA	H 1.000	H 1.000	H 0.5000	H 1.000	H 1.000	H 1.500	H 1.500	H 1.000	H 1.500
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BT-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	300.0	L 50.00	200.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

GIPSITA

A M O S T R A S

VARIÁVEL	JA0275C	JA0373C	JA0354A	JA0354B	JA0354C	JA0355B	JA0359C	JA0428A	JA0432C
LATITUDE	0.2742E 05	0.2737E 05	0.2769F 05	0.2769E 05	0.2769E 05	0.2770E 05	0.2763E 05	0.2805E 05	0.2810E 05
LONGITUD	0.1442E 06	0.1455E 06	0.1460E 06	0.1460E 06	0.1450E 06	0.1460E 06	0.1458E 06	0.1463E 06	0.1461E 06
UTM-ABC	0.3848E 06	0.3448E 06	0.3294E 06	0.3294E 06	0.3294E 06	0.3279E 06	0.3338E 06	0.3184E 06	0.3267E 06
UTM-ORD	0.9158E 07	0.9159E 07	0.9150E 07	0.9150E 07	0.9150E 07	0.9149E 07	0.9151E 07	0.9139E 07	0.9137E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.1000E 00	1.000	0.1000E 00	0.7000E-01	0.7000E-01	0.1000E 00	0.2000	0.5000	0.5000E-01
MG-S %	0.1000E 00	0.5000	0.5000E-01	0.2000E-01	0.2000E-01	0.3000E-01	0.5000E-01	0.7000E-01	0.2000E-01
CA-S %	G 20.00	15.00	20.00	G 20.00	G 20.00	20.00	15.00	G 20.00	G 20.00
TI-S %	0.5000E-01	0.1500	0.5000E-01	0.1000E-01	0.3000E-02	0.2000E-01	0.7000E-01	0.7000E-01	L 0.2000E-02
MN-S	15.00	100.0	50.00	L 10.00	10.00	70.00	100.0	70.00	L 10.00
AG-S	V 0.5000	L 0.5000	N 0.5000	N 0.5000	N 0.5000	V 0.5000	V 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	50.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
BA-S	20.00	150.0	70.00	L 20.00	L 20.00	L 20.00	150.0	70.00	20.00
BE-S	L 1.000	3.000	V 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BT-S	N 10.00	L 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	L 5.000	10.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
CR-S	L 10.00	100.0	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
CU-S	L 5.000	100.0	L 5.000	L 5.000	L 5.000	L 5.000	5.000	L 5.000	N 5.000
LA-S	30.00	20.00	30.00	30.00	30.00	30.00	30.00	30.00	N 20.00
MO-S	N 5.000	10.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
NB-S	L 10.00	10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	N 5.000	15.00	L 5.000	L 5.000	L 5.000	L 5.000	L 5.000	L 5.000	N 5.000
PB-S	L 10.00	70.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	10.00	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1500.	500.0	1000.	1000.	1000.	2000.	700.0	1500.	3000.
V-S	50.00	500.0	10.00	10.00	10.00	10.00	15.00	15.00	30.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	10.00	70.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	N 10.00
ZN-S	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	200.0
ZR-S	L 10.00	150.0	10.00	50.00	10.00	L 10.00	20.00	15.00	N 10.00
SI02 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 I.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-0 %	31.60	B 0.0	32.00	32.20	32.30	32.00	31.40	31.80	32.60
NA20-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-0%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FEO-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-0 %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIABLE	JA0275C	JA0373C	JA0354A	JA0354B	JA0354C	JA0355B	JA0359C	JA0428A	JA0432C
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN3-Q %	45.40	B 0.0	45.90	46.80	46.90	46.40	45.20	46.00	46.80
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
WD3-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
4N-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MD-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SN02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	B 0.0	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01
CAF2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	20.50	B 0.0	20.40	20.50	20.70	20.70	20.80	20.30	20.50
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-C %	1.400	B 0.0	0.7000	0.6000	0.3000	0.8000	0.9000	0.9000	0.3000
R.INSOL.	0.3000	B 0.0	1.500	0.4000	0.1000E 00	0.5000	2.100	1.500	0.1000E 00
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	L 5.000	65.00	5.000	L 5.000	L 5.000	L 5.000	5.000	5.000	L 5.000
PR-AA	H 15.00	H 30.00	H 15.00	H 10.00	H 15.00	H 10.00	H 15.00	H 10.00	H 15.00
ZN-AA	5.000	15.00	5.000	5.000	5.000	L 5.000	L 5.000	L 5.000	5.000
AG-AA	H 1.500	H 1.000	H 1.000	H 1.000	H 1.000	H 1.000	H 1.000	H 0.5000	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	L 50.00	450.0	L 50.00	L 50.00	L 50.00	L 50.00	70.00	L 50.00	L 50.00
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIÁVEL	JA0460B	JA0460D	JA0460F	JA0461A	JA0461C	JA0463A	JA0463C	JA0467	JA0470
LATITUDE	0.2889E 05	0.2889E 05	0.2889E 05	0.2889E 05	0.2889E 05	0.2878E 05	0.2878E 05	0.2800E 05	0.2799E 05
LONGITUDE	0.1466E 06	0.1466E 06	0.1466E 06	0.1465E 06	0.1465E 06	0.1468E 06	0.1468E 06	0.1468E 06	0.1468E 06
UTM-ABC	0.3115E 06	0.3115E 06	0.3115E 06	0.3124E 06	0.3124E 06	0.3031E 06	0.3031E 06	0.3053E 06	0.3046E 06
UTM-ORD	0.9113E 07	0.9113E 07	0.9113E 07	0.9113E 07	0.9113E 07	0.9116E 07	0.9116E 07	0.9140E 07	0.9140E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S *	0.7000E-01	0.3000	0.7000E-01	0.5000E-01	0.7000E-01	0.5000E-01	0.2000	0.1000E 00	0.2000
MG-S *	0.2000E-01	0.1500	0.3000E-01	0.2000E-01	0.3000	0.2000E-01	0.1000E 00	C.2000F-01	0.7000E-01
CA-S *	G 20.00	G 20.00	20.00	G 20.00	20.00	G 20.00	G 20.00	15.00	20.00
TI-S *	0.2000E-02	0.7000E-01	0.1000E-01	0.5000E-02	0.1500E-01	0.3000E-02	0.3000E-01	0.1000F-01	0.3000E-01
MN-S	L 10.00	150.0	30.00	L 10.00	150.0	L 10.00	100.0	10.00	50.00
AG-S	N 0.5000	N 0.5000	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	30.00	L 10.00	N 10.00	N 10.00	L 10.00	10.00	N 10.00	L 10.00
BA-S	L 20.00	100.0	50.00	N 1.000	N 1.000	L 20.00	300.0	20.00	50.00
BE-S	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CO-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	5.000	L 5.000	5.000	L 5.000	5.000	7.000	5.000	7.000	L 5.000
CR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
CU-S	N 5.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000	L 5.000	N 5.000	L 5.000
LA-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
MO-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	L 5.000	N 5.000	N 5.000
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NI-S	N 5.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
PB-S	N 10.00	10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SB-S	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	2000.	2000.	2000.	1500.	G 5000.	1000.	3000.	1000.	1000.
V-S	30.00	70.00	30.00	50.00	30.00	30.00	70.00	20.00	30.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
ZN-S	300.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0	L 200.0
ZR-S	N 10.00	10.00	L 10.00	N 10.00	L 10.00	L 10.00	20.00	10.00	20.00
SI02 T.*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L.*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T.*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B.*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-Q *	32.30	33.60	32.20	31.40	30.80	31.80	30.80	30.50	30.50
NA20-C *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-C *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-C *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q *	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIABLE	JA04603	JA0460D	JA0460F	JA0461A	JA0461C	JA0463A	JA0463C	JA0467	JA0470
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SO3-Q %	47.10	48.00	46.50	47.50	45.90	47.50	46.00	45.80	46.40
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NR205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BE1-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FDG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VCL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	20.50	14.90	20.20	20.20	20.40	19.90	20.30	20.50	20.40
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	0.4000	1.100	0.4000	0.5000	0.7000	0.8000	0.7000	0.6000	0.8000
R. INSOL.	L 0.1000E 00	2.700	0.9000	0.4000	1.300	0.8000	1.700	1.300	1.900
VB+TA-O%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-O %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	L 5.000	5.000	L 5.000	L 5.000	L 5.000	L 5.000	5.000	L 5.000	L 5.000
PB-AA	H 10.00	H 15.00	H 10.00	H 10.00	H 15.00	H 10.00	H 10.00	H 10.00	H 10.00
ZN-AA	5.000	10.00	5.000	L 5.000	5.000	5.000	5.000	5.000	5.000
AG-AA	H 0.5000	H 0.5000	H 0.5000	H 0.5000	H 1.000	H 0.5000	H 0.5000	H 1.000	H 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00	L 50.00
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P DRG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

GIPSITA

A M O S T R A S

VARIAVEL	JA0471B	JA0526B	JA0542D	JM0301B	JA0428B	JA0460E	JA0460G	JA0463B	JA0463D
LATITUDE	0.2799E 05	0.2664E 05	0.2678E 05	0.2753E 05	0.2905E 05	0.2889E 05	0.2889E 05	0.2878E 05	0.2878E 05
LONGITUD	0.1469E 06	0.1465E 06	0.1466E 06	0.1466E 06	0.1463E 06	0.1466E 06	0.1466E 06	0.1468E 06	0.1468E 06
UTM-ABC	0.3001E 06	0.3116E 06	0.3089E 06	0.3098E 06	0.3184E 06	0.3115E 06	0.3115E 06	0.3031E 06	0.3030E 06
UTM-ORD	0.9140E 07	0.9182E 07	0.9177E 07	0.9154E 07	0.9139E 07	0.9113E 07	0.9113E 07	0.9116E 07	0.9116E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.5000E-01	15.00	3.000	0.5000	0.1500	0.5000	0.1000E 00	0.1500	0.5000
MG-S %	L 0.2000E-01	0.7000	0.3000	0.1500	0.2000E-01	0.5000	0.1000E 00	0.5000E-01	0.2000
CA-S %	20.00	20.00	15.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00	G 20.00
TI-S %	L 0.2000E-02	0.2000	0.1500	0.2000E-02	0.1500E-01	0.1000E 00	0.1000E-01	0.1500E-01	0.1000E 00
MN-S	L 10.00	G 5000.	150.0	300.0	20.00	200.0	50.00	50.00	100.0
AG-S	V 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	V 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	N 10.00	20.00	10.00	L 10.00	L 10.00	50.00	L 10.00	L 10.00	10.00
BA-S	L 20.00	700.0	300.0	150.0	50.00	100.0	50.00	70.00	100.0
RE-S	N 1.000	3.000	1.000	N 1.000	L 1.000	L 1.000	N 1.000	N 1.000	L 1.000
BI-S	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CO-S	L 5.000	300.0	7.000	5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
CR-S	L 10.00	50.00	30.00	L 10.00	20.00	30.00	10.00	20.00	30.00
CU-S	N 5.000	200.0	30.00	20.00	L 5.000	10.00	L 5.000	5.000	5.000
LA-S	N 20.00	70.00	70.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	L 20.00
MO-S	N 5.000	H 20.00	L 5.000	L 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
NR-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
VI-S	V 5.000	500.0	20.00	N 5.000	N 5.000	5.000	N 5.000	N 5.000	5.000
PB-S	L 10.00	30.00	15.00	30.00	L 10.00	20.00	L 10.00	10.00	10.00
SP-S	N 100.0	N 100.0	V 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	20.00	7.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	V 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	1000.	200.0	300.0	700.0	700.0	1000.	1000.	500.0	500.0
V-S	30.00	100.0	70.00	50.00	10.00	20.00	L 10.00	10.00	20.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	N 10.00	150.0	20.00	N 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
ZN-S	L 200.0	200.0	L 200.0	L 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	L 10.00	150.0	70.00	L 10.00	20.00	30.00	50.00	10.00	20.00
S102 T.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S102 L.%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MGN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAO-Q %	31.10	18.70	25.10	31.20	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0



GIPSITA

A M O S T R A S

VARIÁVEL	JA0471B	JA0526B	JA0542D	JM0301B	JA0428B	JA0460E	JA0460G	JA0463B	JA0463D
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	47.10	23.20	38.70	46.00	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
LI20-Q %	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	L 0.1000E-01	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CIN7AS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FOG%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	20.90	18.40	20.20	20.70	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	0.3000	15.00	5.200	0.5000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R.INSCL.	0.5000	21.40	10.80	1.000	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q%	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	L 5.000	100.0	15.00	10.00	L 5.000	5.000	5.000	5.000	5.000
PB-AA	H 15.00	H 25.00	H 15.00	H 25.00	N 5.000	L 5.000	L 5.000	L 5.000	L 5.000
ZN-AA	L 5.000	250.0	20.00	90.00	5.000	10.00	L 5.000	5.000	10.00
AG-AA	H 0.5000	H 1.000	H 0.5000	H 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	L 50.00	500.0	110.0	L 50.00	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

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A M O S T R A S

VARIAVEL	JA0461B	JA0460C	JA0463F	JA0471C	JM0301A	JM0301C
LATITUDE	0.2889E 05	0.2889E 05	0.2878E 05	0.2799E 05	0.2753E 05	0.2753E 05
LONGITUD	0.1465E 06	0.1466E 06	0.1468E 06	0.1469E 06	0.1455E 05	0.1466E 06
UTM-ABC	0.3124E 06	0.3115E 06	0.3030E 06	0.3001E 06	0.3098E 06	0.3098E 06
UTM-ORD	0.9113E 07	0.9113E 07	0.9116E 07	0.9140E 07	0.9154E 07	0.9154E 07
M. C.	39.00	39.00	39.00	39.00	39.00	39.00
FE-S %	0.5000	0.1000E 00	0.2000	0.5000E-01	0.5000E-01	0.5000E-01
MG-S %	0.2000	0.2000E-01	0.1000E 00	0.2000E-01	0.2000E-01	0.2000E-01
CA-S %	20.00	G 20.00	G 20.00	G 20.00	20.00	15.00
TI-S %	0.5000E-01	0.1500E-01	0.1500E-01	0.5000E-02	0.2000E-02	0.2000E-02
MN-S	100.0	20.00	20.00	10.00	L 10.00	200.0
AG-S	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
AS-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
AU-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
B-S	L 10.00	10.00	L 10.00	N 10.00	N 10.00	N 10.00
BA-S	100.0	200.0	300.0	L 20.00	L 20.00	L 20.00
BE-S	L 1.000	N 1.000	N 1.000	N 1.000	N 1.000	N 1.000
BI-S	L 10.00	N 10.00	N 10.00	N 10.00	L 10.00	L 10.00
CD-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
CE-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
CR-S	20.00	10.00	L 10.00	L 10.00	10.00	10.00
CU-S	5.000	L 5.000	5.000	L 5.000	L 5.000	L 5.000
LA-S	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00	N 20.00
MO-S	5.000	N 5.000	7.000	N 5.000	N 5.000	N 5.000
NB-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
NT-S	5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
PB-S	10.00	10.00	10.00	L 10.00	L 10.00	10.00
SB-S	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0	N 100.0
SC-S	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000	N 5.000
SN-S	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00	N 10.00
SR-S	500.0	500.0	G 500.0	500.0	700.0	700.0
V-S	20.00	10.00	20.00	10.00	10.00	10.00
W-S	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00	N 50.00
Y-S	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00	L 10.00
ZN-S	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0	N 200.0
ZR-S	10.00	10.00	20.00	10.00	L 10.00	L 10.00
SI02 T %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SI02 L %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 T %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AL203 B %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MG0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CA0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NA20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K20-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI02-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
FE0-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
P205-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MNO2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

GIPSITA

A M O S T R A S

VARIÁVEL	JA0461B	JA0460C	JA0463F	JA0471C	JM0301A	JM0301C
MNO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CR203-Q*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
V205-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB205-Q*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
W03-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MN-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CL-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
K-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C FIX %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
SNO2-C %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BEO-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
L120-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CAF2-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CINZAS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PER-FNG*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
MAT.VOL*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
H2O CB %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
UMIDADE	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R203-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
R. INSOL.	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NB+TA-Q*	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
U-Q %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CU-AA	5.000	5.000	5.000	L 5.000	5.000	5.000
PB-AA	L 5.000	N 5.000	N 5.000	N 5.000	L 5.000	10.00
ZN-AA	10.00	5.000	5.000	5.000	5.000	25.00
AG-AA	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000	N 0.5000
CO-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
NI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
BI-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
CD-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TE-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-AA	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
TI-COL %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
HG-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
F-INS	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
S-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
C-INS %	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
PH	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ORG	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
AU-P ANL	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0
	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0	B 0.0

IHC215I CONVERT - ILLEGAL DECIMAL CHARACTER \*

2 - CONTAGENS DAS MATRIZES PRESTA DO ARQUIVO GERAL DO PROJETO

ARENITOS FACIES A

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	14	0	0	0	0	0	0	25591.000	27729.000
LONGITUD	14	0	0	0	0	0	0	140810.000	146681.000
JTM-ABC	14	0	0	0	0	0	0	307500.000	487425.000
UTM-ORD	14	0	0	0	0	0	0	9148375.000	9214175.000
M. C.	14	0	0	0	0	0	0	39.000	39.000
FE-S %	14	0	0	0	0	0	0	0.700	15.000
MG-S %	14	0	0	0	0	0	0	0.100	2.000
CA-S %	12	2	0	0	0	0	0	0.050	20.000
TI-S %	11	0	3	0	0	0	0	0.100	1.000
MN-S	13	0	1	0	0	0	0	100.000	1500.000
AG-S	0	0	0	0	14	0	0		
AS-S	0	0	0	0	14	0	0		
AU-S	0	0	0	0	14	0	0		
H-S	13	1	0	0	0	0	0	20.000	100.000
BA-S	14	0	0	0	0	0	0	500.000	5000.000
RF-S	6	7	0	0	1	0	0	1.500	3.000
BT-S	0	0	0	0	14	0	0		
CD-S	0	0	0	0	14	0	0		
CO-S	13	1	0	0	0	0	0	5.000	20.000
CR-S	14	0	0	0	0	0	0	70.000	300.000
CU-S	14	0	0	0	0	0	0	5.000	30.000
LA-S	14	0	0	0	0	0	0	20.000	150.000
MD-S	6	4	0	0	4	0	0	5.000	15.000
NB-S	12	2	0	0	0	0	0	10.000	30.000
NT-S	12	0	0	0	0	2	0	15.000	100.000
PR-S	14	0	0	0	0	0	0	20.000	300.000
SB-S	0	0	0	0	14	0	0		
SC-S	8	0	0	0	0	6	0	5.000	20.000
SN-S	0	0	0	0	13	1	0		
SR-S	8	2	0	0	4	0	0	100.000	300.000
V-S	14	0	0	0	0	0	0	50.000	300.000
W-S	0	0	0	0	14	0	0		
Y-S	13	1	0	0	0	0	0	20.000	100.000
ZN-S	2	4	0	0	8	0	0	200.000	300.000
ZR-S	6	0	8	0	0	0	0	100.000	1000.000
CU-AA	13	1	0	0	0	0	0	5.000	15.000
PB-AA	13	0	0	0	0	1	0	5.000	90.000
ZN-AA	14	0	0	0	0	0	0	5.000	75.000
AG-AA	0	0	0	0	7	0	0		
CO-AA	0	0	0	0	0	14	0		
NT-AA	0	0	0	0	0	14	0		
BT-AA	0	0	0	0	0	14	0		
CD-AA	0	0	0	0	0	14	0		
TE-AA	0	0	0	0	0	14	0		
AU-AA	0	0	0	0	0	14	0		

ARENITOS FACIES B

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	23	0	0	0	0	0	0	25635.000	28865.000
LONGITUD	23	0	0	0	0	0	0	140974.000	146926.000
JTM-ABC	23	0	0	0	0	0	0	300075.000	482425.000
UTM-ORD	23	0	0	0	0	0	0	9113300.000	9212850.000
M. C.	23	0	0	0	0	0	0	39.000	39.000
FF-S %	23	0	0	0	0	0	0	1.000	20.000
MG-S %	23	0	0	0	0	0	0	0.150	3.000
CA-S %	22	1	0	0	0	0	0	0.150	20.000
TI-S %	18	0	5	0	0	0	0	0.150	0.700
MV-S	22	0	1	0	0	0	0	100.000	3000.000
AG-S	0	0	0	0	22	1	0		
AS-S	0	0	0	0	23	0	0		
AU-S	0	0	0	0	23	0	0		
R-S	23	0	0	0	0	0	0	10.000	200.000
BA-S	22	0	1	0	0	0	0	200.000	5000.000
BE-S	16	7	0	0	0	0	0	1.000	5.000
BT-S	0	2	0	0	21	0	0		
CD-S	0	0	0	0	23	0	0		
CO-S	22	0	0	0	1	0	0	5.000	50.000
CR-S	23	0	0	0	0	0	0	20.000	200.000
CU-S	22	1	0	0	0	0	0	5.000	150.000
LA-S	23	0	0	0	0	0	0	20.000	200.000
MO-S	7	5	0	0	11	0	0	5.000	20.000
NP-S	21	2	0	0	0	0	0	10.000	30.000
NI-S	21	1	0	0	0	1	0	5.000	150.000
PR-S	23	0	0	0	0	0	0	10.000	500.000
SB-S	0	0	0	0	23	0	0		
SC-S	18	0	0	0	0	5	0	5.000	30.000
SN-S	0	1	0	0	22	0	0		
SR-S	20	1	0	0	2	0	0	100.000	300.000
V-S	23	0	0	0	0	0	0	20.000	300.000
W-S	0	0	0	0	23	0	0		
Y-S	23	0	0	0	0	0	0	10.000	300.000
ZN-S	5	8	0	0	10	0	0	200.000	200.000
ZR-S	16	0	7	0	0	0	0	50.000	1000.000
CU-AA	22	1	0	0	0	0	0	5.000	90.000
PB-AA	18	1	0	0	0	4	0	5.000	180.000
ZN-AA	22	1	0	0	0	0	0	10.000	210.000
AG-AA	0	0	0	0	10	13	0		
CO-AA	0	0	0	0	0	23	0		
NI-AA	0	0	0	0	0	23	0		
BI-AA	0	0	0	0	0	23	0		
CD-AA	0	0	0	0	0	23	0		
TF-AA	0	0	0	0	0	23	0		
AU-AA	0	0	0	0	0	23	0		

ARENITOS FACIES A E B

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	37	0	0	0	0	0	0	25591.000	28865.000
LONGITUD	37	0	0	0	0	0	0	140810.000	146926.000
UTM-ABC	37	0	0	0	0	0	0	300075.000	487425.000
UTM-ORD	37	0	0	0	0	0	0	9113300.000	9214175.000
M. C.	37	0	0	0	0	0	0	39.000	39.000
FE-S %	37	0	0	0	0	0	0	0.700	20.000
MG-S %	37	0	0	0	0	0	0	0.100	3.000
CA-S %	34	3	0	0	0	0	0	0.050	20.000
TI-S %	29	0	8	0	0	0	0	0.100	1.000
MN-S	35	0	2	0	0	0	0	100.000	3000.000
AG-S	0	0	0	0	36	1	0		
AS-S	0	0	0	0	37	0	0		
AU-S	0	0	0	0	37	0	0		
B-S	36	1	0	0	0	0	0	10.000	200.000
BA-S	36	0	1	0	0	0	0	200.000	5000.000
BE-S	22	14	0	0	1	0	0	1.000	5.000
BI-S	0	2	0	0	35	0	0		
CD-S	0	0	0	0	37	0	0		
CO-S	35	1	0	0	1	0	0	5.000	50.000
CR-S	37	0	0	0	0	0	0	20.000	300.000
CU-S	36	1	0	0	0	0	0	5.000	150.000
LA-S	37	0	0	0	0	0	0	20.000	200.000
MO-S	13	9	0	0	15	0	0	5.000	20.000
NB-S	33	4	0	0	0	0	0	10.000	30.000
NI-S	33	1	0	0	0	3	0	5.000	150.000
PB-S	37	0	0	0	0	0	0	10.000	500.000
SB-S	0	0	0	0	37	0	0		
SC-S	26	0	0	0	0	11	0	5.000	30.000
SN-S	0	1	0	0	35	1	0		
SR-S	28	3	0	0	5	0	0	100.000	300.000
V-S	37	0	0	0	0	0	0	20.000	300.000
W-S	0	0	0	0	37	0	0		
Y-S	36	1	0	0	0	0	0	10.000	300.000
ZN-S	7	12	0	0	13	0	0	200.000	300.000
ZR-S	22	0	15	0	0	0	0	50.000	1000.000
CU-AA	35	2	0	0	0	0	0	5.000	90.000
PR-AA	31	1	0	0	0	5	0	5.000	180.000
ZN-AA	36	1	0	0	0	0	0	5.000	210.000
AG-AA	0	0	0	0	17	20	0		
CO-AA	0	0	0	0	0	37	0		
NI-AA	0	0	0	0	0	37	0		
BI-AA	0	0	0	0	0	37	0		
CD-AA	0	0	0	0	0	37	0		
TF-AA	0	0	0	0	0	37	0		
AU-AA	0	0	0	0	0	37	0		

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## CALCARIOS LAMINADOS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SFVS.	SUPERIOR LIM. SENS.	TRACOS	NAD DETETADO	NAD ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	69	0	0	0	0	0	0	25528.000	28776.000
LONGITUD	69	0	0	0	0	0	0	140645.000	146834.000
UTM-ABC	69	0	0	0	0	0	0	303000.000	492475.000
UTM-ORD	69	0	0	0	0	0	0	9116000.000	9216125.000
M. C. -	69	0	0	0	0	0	0	39.000	39.000
FE-S %	69	0	0	0	0	0	0	0.200	20.000
MG-S %	69	0	0	0	0	0	0	0.200	10.000
CA-S %	3	0	66	0	0	0	0	7.000	20.000
TI-S %	69	0	0	0	0	0	0	0.002	0.700
WV-S	32	0	37	0	0	0	0	100.000	5000.000
AG-S	12	0	0	0	56	1	0	0.500	7.000
AS-S	0	0	0	0	69	0	0		
AU-S	0	0	0	0	69	0	0		
R-S	34	16	0	0	19	0	0	10.000	200.000
BA-S	60	0	9	0	0	0	0	20.000	5000.000
BE-S	10	23	0	0	36	0	0	1.000	5.000
BT-S	0	1	0	0	68	0	0		
CD-S	1	6	0	0	67	0	0	30.000	30.000
CO-S	60	3	0	0	6	0	0	5.000	700.000
CR-S	57	3	0	0	9	0	0	10.000	200.000
CU-S	69	0	0	0	0	0	0	5.000	700.000
LA-S	47	6	0	0	16	0	0	20.000	150.000
MO-S	56	7	0	0	5	1	0	5.000	300.000
NB-S	8	43	0	0	18	0	0	10.000	30.000
NI-S	66	1	0	0	2	0	0	5.000	150.000
PR-S	69	0	0	0	0	0	0	10.000	1000.000
SB-S	0	0	0	0	59	0	0		
SC-S	17	7	0	0	45	0	0	5.000	20.000
SV-S	0	0	0	0	69	0	0		
SR-S	67	0	0	0	2	0	0	100.000	3000.000
V-S	69	0	0	0	0	0	0	10.000	1500.000
W-S	0	0	0	0	69	0	0		
Y-S	50	15	0	0	4	0	0	10.000	150.000
ZN-S	39	5	0	0	25	0	0	200.000	3000.000
ZR-S	61	7	0	0	1	0	0	10.000	200.000
SI02 T %	7	0	0	0	0	62	0	1.100	44.800
SI02 L %	0	0	0	0	0	69	0		
AL203 T %	7	0	0	0	0	62	0	0.200	1.400
AL203 B %	0	0	0	0	0	69	0		
MGO-Q %	26	0	0	0	0	43	0	0.500	4.700
CAO-Q %	26	0	0	0	0	43	0	7.300	53.500
NA2O-Q %	0	0	0	0	0	69	0		
K2O-Q %	0	0	0	0	0	69	0		
TIO2-Q %	1	6	0	0	0	62	0	0.700	0.700
CO2-Q %	0	0	0	0	0	69	0		
FF203-C %	7	0	0	0	0	62	0	0.800	5.800
FeO-Q %	0	0	0	0	0	69	0		
P2O5-Q %	23	3	0	0	0	43	0	0.050	0.490
MNO2-Q %	0	0	0	0	0	69	0		
MNO-Q %	0	0	0	0	0	69	0		
CR2O3-Q %	0	0	0	0	0	69	0		
SO3-Q %	0	0	0	0	0	69	0		



CALCARIOS LAMINADOS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAD DETETADO	NAD ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
V205-Q %	0	0	0	0	0	69	0		
NB205-Q %	0	0	0	0	0	69	0		
W03-Q %	0	0	0	0	0	69	0		
MN-Q %	0	0	0	0	0	69	0		
CL-Q %	0	0	0	0	0	69	0		
BI-Q %	0	0	0	0	0	69	0		
S-Q %	0	0	0	0	0	69	0		
MO-Q %	0	0	0	0	0	69	0		
K-Q %	0	0	0	0	0	69	0		
C FIX %	0	0	0	0	0	69	0		
SNO2-Q %	0	0	0	0	0	69	0		
BEO-Q %	0	0	0	0	0	69	0		
LI20-Q %	0	7	0	0	0	62	0		
CAF2-Q %	0	0	0	0	0	69	0		
CINZAS %	0	0	0	0	0	69	0		
PER-FCG %	26	0	0	0	0	43	0	14.800	43.100
MAT.VOL %	0	0	0	0	0	69	0		
H2O CB %	0	0	0	0	0	69	0		
UMIDADE	0	0	0	0	0	69	0		
R203-Q %	19	0	0	0	0	50	0	1.000	9.700
R.INSOL.	19	0	0	0	0	50	0	0.700	21.900
NB+TA-Q %	0	0	0	0	0	69	0		
U-Q %	0	0	0	0	0	69	0		
CU-AA	69	0	0	0	0	0	0	10.000	410.000
PB-AA	57	0	0	0	0	12	0	10.000	380.000
ZN-AA	67	0	2	0	0	0	0	10.000	930.000
AG-AA	0	0	0	0	21	48	0		
CO-AA	0	0	0	0	0	69	0		
NI-AA	0	0	0	0	0	69	0		
BI-AA	0	0	0	0	0	69	0		
CO-AA	0	0	0	0	0	69	0		
TE-AA	0	0	0	0	0	69	0		
AU-AA	0	0	0	0	0	69	0		
AS-COL	0	0	0	0	0	69	0		
SR-COL	0	0	0	0	0	69	0		
CXCU-COL	0	0	0	0	0	69	0		
MET PES	0	0	0	0	0	69	0		
CO-COL	0	0	0	0	0	69	0		
MO-COL	0	0	0	0	0	69	0		
W-COL	0	0	0	0	0	69	0		
P-COL	0	1	0	0	0	68	0		
SE-COL	0	0	0	0	0	69	0		
U-COL	0	0	0	0	0	69	0		
TI-COL %	0	0	0	0	0	69	0		
HG-INS	0	0	0	0	0	69	0		
F-INS	54	1	0	0	0	14	0	50.000	3200.000
S-INS %	0	0	0	0	0	69	0		
C-INS %	0	0	0	0	0	69	0		
PH	0	0	0	0	0	69	0		
AU-P ORG	0	0	0	0	0	69	0		
AU-P ANL	0	0	0	0	0	69	0		
	0	0	0	0	0	69	0		

CALCARENITOS E MARGAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SEVS.	SUPERIOR LIM. SEVS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	48	0	0	0	0	0	0	25679.000	28924.000
LONGITUD	48	0	0	0	0	0	0	140801.000	146834.000
UTM-ABC	48	0	0	0	0	0	0	303000.000	487700.000
UTM-ORD	48	0	0	0	0	0	0	9111600.000	9211475.000
M. C.	48	0	0	0	0	0	0	39.000	39.000
FE-S %	48	0	0	0	0	0	0	0.300	15.000
MG-S %	48	0	0	0	0	0	0	0.500	10.000
CA-S %	17	0	31	0	0	0	0	1.500	20.000
TI-S %	48	0	0	0	0	0	0	0.015	1.000
MN-S	33	0	15	0	0	0	0	300.000	5000.000
AG-S	5	0	0	0	43	0	0	1.000	3.000
AS-S	0	0	0	0	48	0	0		
AU-S	0	0	0	0	48	0	0		
B-S	31	16	0	0	1	0	0	10.000	200.000
BA-S	43	0	5	0	0	0	0	100.000	5000.000
RF-S	15	28	0	0	5	0	0	1.000	3.000
BT-S	0	2	0	0	45	0	0		
CD-S	6	4	0	0	37	1	0	20.000	50.000
CO-S	47	1	0	0	0	0	0	5.000	70.000
CR-S	47	1	0	0	0	0	0	10.000	300.000
CU-S	48	0	0	0	0	0	0	5.000	500.000
LA-S	45	2	0	0	1	0	0	20.000	150.000
MO-S	32	5	0	0	10	1	0	5.000	700.000
NP-S	17	31	0	0	0	0	0	10.000	20.000
NI-S	48	0	0	0	0	0	0	5.000	300.000
PB-S	48	0	0	0	0	0	0	10.000	1000.000
SB-S	0	0	0	0	48	0	0		
SC-S	39	2	0	0	7	0	0	5.000	70.000
SN-S	3	0	0	0	44	1	0	10.000	10.000
SR-S	48	0	0	0	0	0	0	100.000	2000.000
V-S	48	0	0	0	0	0	0	20.000	2000.000
W-S	0	0	0	0	48	0	0		
Y-S	47	0	0	0	1	0	0	10.000	200.000
ZN-S	12	11	0	0	25	0	0	200.000	1500.000
ZR-S	47	0	0	0	1	0	0	10.000	700.000
CU-AA	48	0	0	0	0	0	0	5.000	220.000
PR-AA	29	1	0	0	0	19	0	10.000	260.000
ZN-AA	48	0	0	0	0	0	0	10.000	970.000
AG-AA	0	0	0	0	9	39	0		
CO-AA	0	0	0	0	0	48	0		
NI-AA	0	0	0	0	0	48	0		
BT-AA	0	0	0	0	0	48	0		
CO-AA	0	0	0	0	0	48	0		
TE-AA	0	0	0	0	0	48	0		
AU-AA	0	0	0	0	0	48	0		
AS-COL	0	0	0	0	0	48	0		
SB-COL	0	0	0	0	0	48	0		
CXCU-COL	0	0	0	0	0	49	0		
MET PES	0	0	0	0	0	48	0		
CO-COL	0	0	0	0	0	48	0		
MO-COL	0	0	0	0	0	48	0		
W-COL	0	0	0	0	0	48	0		

CPRM

CONTAGEM DE MATRIZ PRESTA

26.05.75 FLA. 2

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CALCARENITOS E MARGAS

PARAMETRO ANALITICO	VALORES DEFINIÇÕES	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NÃO DETECTADO	NÃO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
P-COL	10	0	0	0	0	38	0	0.010	0.130
SE-COL	0	0	0	0	0	48	0		
U-COL	0	0	0	0	0	48	0		
TI-COL %	0	0	0	0	0	48	0		
HG-INS	0	0	0	0	0	48	0		
F-INS	39	0	0	0	0	9	0	120.000	2750.000
S-INS %	0	0	0	0	0	48	0		
C-INS %	0	0	0	0	0	48	0		
PH	0	0	0	0	0	48	0		
AU-P ORG	0	0	0	0	0	48	0		
AU-P ANL	0	0	0	0	0	48	0		
	0	0	0	0	0	48	0		
	0	0	0	0	0	48	0		

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SEVS.	SUPERIOR LIM. SEVS.	TRACOS	NAJ DETETADO	NAJ ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	17	0	0	0	0	0	0	25503.000	27765.000
LONGITUD	17	0	0	0	0	0	0	140987.000	146306.000
UTM-ABC	17	0	0	0	0	0	0	318925.000	482000.000
UTM-ORD	17	0	0	0	0	0	0	9147275.000	9216875.000
M. C.	17	0	0	0	0	0	0	39.000	39.000
FF-S %	17	0	0	0	0	0	0	2.000	10.000
MG-S %	17	0	0	0	0	0	0	1.500	10.000
CA-S %	15	0	2	0	0	0	0	10.000	20.000
TI-S %	17	0	0	0	0	0	0	0.150	0.500
MN-S	15	0	2	0	0	0	0	1000.000	5000.000
AG-S	2	0	0	0	15	0	0	0.500	2.000
AS-S	0	0	0	0	17	0	0		
AU-S	0	0	0	0	17	0	0		
B-S	17	0	0	0	0	0	0	15.000	200.000
BA-S	15	0	2	0	0	0	0	200.000	5000.000
BF-S	13	4	0	0	0	0	0	1.000	3.000
BI-S	0	4	0	0	13	0	0		
CD-S	0	1	0	0	16	0	0		
CO-S	17	0	0	0	0	0	0	5.000	100.000
CR-S	17	0	0	0	0	0	0	30.000	200.000
CU-S	17	0	0	0	0	0	0	20.000	200.000
LA-S	17	0	0	0	0	0	0	20.000	200.000
MO-S	16	1	0	0	0	0	0	5.000	200.000
NP-S	12	5	0	0	0	0	0	10.000	20.000
NI-S	16	0	0	0	0	1	0	20.000	200.000
PB-S	17	0	0	0	0	0	0	30.000	200.000
SB-S	0	0	0	0	17	0	0		
SC-S	17	0	0	0	0	0	0	5.000	20.000
SN-S	0	1	0	0	15	0	0		
SR-S	17	0	0	0	0	0	0	200.000	1500.000
V-S	17	0	0	0	0	0	0	100.000	1500.000
W-S	0	0	0	0	17	0	0		
Y-S	17	0	0	0	0	0	0	15.000	150.000
ZN-S	9	4	0	0	4	0	0	200.000	1000.000
ZR-S	17	0	0	0	0	0	0	20.000	500.000
CU-AA	17	0	0	0	0	0	0	15.000	160.000
PB-AA	10	0	0	0	0	7	0	15.000	110.000
ZN-AA	17	0	0	0	0	0	0	50.000	1000.000
AG-AA	0	0	0	0	7	10	0		
CO-AA	0	0	0	0	0	17	0		
NI-AA	0	0	0	0	0	17	0		
BI-AA	0	0	0	0	0	17	0		
CD-AA	0	0	0	0	0	17	0		
TE-AA	0	0	0	0	0	17	0		
AU-AA	0	0	0	0	0	17	0		
TI-COL %	0	0	0	0	0	17	0		
HG-INS	0	0	0	0	0	17	0		
F-INS	8	0	0	0	0	9	0	375.000	1900.000
S-INS %	0	0	0	0	0	17	0		
C-INS %	0	0	0	0	0	17	0		
PH	0	0	0	0	0	17	0		
AU-P ORG	0	0	0	0	0	17	0		

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## MARGA BETUMINOSA DA ZONA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	5	0	0	0	0	0	0	26042.000	26610.000
LONGITUDE	5	0	0	0	0	0	0	140555.000	141992.000
JTM-ABC	5	0	0	0	0	0	0	451175.000	495250.000
UTM-ORD	5	0	0	0	0	0	0	9182950.000	9200375.000
M. C.	5	0	0	0	0	0	0	39.000	39.000
FE-S %	5	0	0	0	0	0	0	5.000	15.000
MG-S %	5	0	0	0	0	0	0	0.700	1.000
CA-S %	3	0	2	0	0	0	0	20.000	20.000
TI-S %	5	0	0	0	0	0	0	0.070	0.150
MN-S	0	0	5	0	0	0	0		
AG-S	2	0	0	0	3	0	0	3.000	7.000
AS-S	0	0	0	0	5	0	0		
AU-S	0	0	0	0	5	0	0		
B-S	5	0	0	0	0	0	0	10.000	20.000
BA-S	5	0	0	0	0	0	0	150.000	700.000
BE-S	0	5	0	0	0	0	0		
BI-S	0	0	0	0	5	0	0		
CD-S	3	1	0	0	1	0	0	20.000	70.000
CO-S	5	0	0	0	0	0	0	7.000	70.000
CR-S	5	0	0	0	0	0	0	30.000	50.000
CU-S	5	0	0	0	0	0	0	70.000	150.000
LA-S	5	0	0	0	0	0	0	20.000	70.000
MO-S	5	0	0	0	0	0	0	30.000	150.000
NB-S	0	5	0	0	0	0	0		
NI-S	5	0	0	0	0	0	0	30.000	300.000
PB-S	5	0	0	0	0	0	0	700.000	10000.000
SB-S	0	0	0	0	5	0	0		
SC-S	4	1	0	0	0	0	0	5.000	7.000
SN-S	0	0	0	0	5	0	0		
SR-S	5	0	0	0	0	0	0	500.000	700.000
V-S	5	0	0	0	0	0	0	300.000	1000.000
W-S	0	0	0	0	5	0	0		
Y-S	5	0	0	0	0	0	0	30.000	150.000
ZN-S	5	0	0	0	0	0	0	300.000	5000.000
ZR-S	5	0	0	0	0	0	0	30.000	150.000
TA205-Q %	0	0	0	0	0	5	0		
BA0-Q %	0	0	0	0	0	5	0		
ZR02-Q %	0	0	0	0	0	5	0		
CU-Q %	0	0	0	0	0	5	0		
NI-Q %	0	0	0	0	0	5	0		
PB-Q %	1	0	0	0	0	4	0	0.130	0.130
ZN-Q %	1	0	0	0	0	4	0	0.290	0.290
FE-Q %	0	0	0	0	0	5	0		
P-Q %	0	0	0	0	0	5	0		
NA-Q %	0	0	0	0	0	5	0		
CU-AA	5	0	0	0	0	0	0	45.000	110.000
PB-AA	2	0	3	0	0	0	0	200.000	580.000
ZN-AA	1	0	4	0	0	0	0	220.000	220.000
AG-AA	0	0	0	0	1	4	0		
CO-AA	0	0	0	0	0	5	0		
NI-AA	0	0	0	0	0	5	0		
BI-AA	0	0	0	0	0	5	0		

## MARGA BETUMINOSA DA ZONA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SFNS.	TRACOS	NÃO DETECTADO	NÃO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
CO-AA	0	0	0	0	0	5	0		
TE-AA	0	0	0	0	0	5	0		
AU-AA	0	0	0	0	0	5	0		
TI-COL %	0	0	0	0	0	5	0		
HG-INS	0	0	0	0	0	5	0		
F-INS	1	0	0	0	0	4	0	450.000	450.000
S-INS %	0	0	0	0	0	5	0		
C-INS %	0	0	0	0	0	5	0		
PH	0	0	0	0	0	5	0		
AU-P ORG	0	0	0	0	0	5	0		
AU-P ANL	0	0	0	0	0	5	0		
	0	0	0	0	0	5	0		
	0	0	0	0	0	5	0		

BRECHA CALCARIA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	9	0	0	0	0	0	0	26042.000	26808.000
LONGITUDE	9	0	0	0	0	0	0	140482.000	141992.000
UTM-ABC	9	0	0	0	0	0	0	451175.000	497500.000
UTM-ORD	9	0	0	0	0	0	0	9176850.000	9200375.000
M. C.	9	0	0	0	0	0	0	39.000	39.000
FE-S %	9	0	0	0	0	0	0	1.000	15.000
MG-S %	9	0	0	0	0	0	0	1.000	10.000
CA-S %	1	0	8	0	0	0	0	1.500	1.500
TI-S %	9	0	0	0	0	0	0	0.020	1.000
MN-S	2	0	7	0	0	0	0	500.000	5000.000
AG-S	0	0	0	0	9	0	0		
AS-S	0	0	0	0	9	0	0		
AU-S	0	0	0	0	9	0	0		
B-S	6	3	0	0	0	0	0	10.000	100.000
BA-S	9	0	0	0	0	0	0	70.000	500.000
BF-S	2	5	0	0	2	0	0	1.500	2.000
BI-S	0	0	0	0	9	0	0		
CD-S	3	1	0	0	5	0	0	20.000	50.000
CO-S	9	0	0	0	0	0	0	5.000	30.000
CR-S	8	1	0	0	0	0	0	10.000	100.000
CU-S	9	0	0	0	0	0	0	30.000	200.000
LA-S	9	0	0	0	0	0	0	20.000	100.000
MO-S	8	0	0	0	1	0	0	15.000	200.000
NR-S	1	6	0	0	2	0	0	15.000	15.000
NT-S	9	0	0	0	0	0	0	10.000	70.000
PB-S	8	0	1	0	0	0	0	30.000	5000.000
SB-S	0	0	0	0	9	0	0		
SC-S	4	0	0	0	5	0	0	5.000	20.000
SN-S	0	0	0	0	9	0	0		
SR-S	9	0	0	0	0	0	0	100.000	1000.000
V-S	9	0	0	0	0	0	0	30.000	700.000
W-S	0	0	0	0	9	0	0		
Y-S	8	1	0	0	0	0	0	20.000	100.000
ZN-S	7	1	0	0	1	0	0	200.000	3000.000
ZR-S	9	0	0	0	0	0	0	10.000	150.000
TA205-Q %	0	0	0	0	0	9	0		
BA0-Q %	0	0	0	0	0	9	0		
ZR02-Q %	0	0	0	0	0	9	0		
CU-O %	0	0	0	0	0	9	0		
NI-O %	0	0	0	0	0	9	0		
PB-O %	3	0	0	0	0	6	0	0.100	2.110
ZN-O %	3	0	0	0	0	6	0	0.040	0.330
FE-O %	0	0	0	0	0	9	0		
P-O %	0	0	0	0	0	9	0		
VA-O %	0	0	0	0	0	9	0		
CU-AA	9	0	0	0	0	0	0	25.000	250.000
PB-AA	5	0	4	0	0	0	0	10.000	840.000
ZN-AA	5	0	4	0	0	0	0	55.000	410.000
AG-AA	0	0	0	0	5	3	0		
CO-AA	0	0	0	0	0	9	0		
NI-AA	0	0	0	0	0	9	0		
BI-AA	0	0	0	0	0	9	0		

## BRECHA CALCARIA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
CD-AA	0	0	0	0	0	9	0		
TE-AA	0	0	0	0	0	9	0		
AU-AA	0	0	0	0	0	9	0		
AS-COL	0	0	0	0	0	9	0		
SB-COL	0	0	0	0	0	9	0		
CXCU-COL	0	0	0	0	0	9	0		
MET PES	0	0	0	0	0	9	0		
CO-COL	0	0	0	0	0	9	0		
MO-COL	0	0	0	0	0	9	0		
W-COL	0	0	0	0	0	9	0	0.020	0.020
P-COL	1	0	0	0	0	9	0		
SF-COL	0	0	0	0	0	9	0		
U-COL	0	0	0	0	0	9	0		
TI-COL %	0	0	0	0	0	9	0		
HG-INS	0	0	0	0	0	9	0	150.000	900.000
F-INS	7	0	0	0	0	9	0		
S-INS %	0	0	0	0	0	9	0		
C-INS %	0	0	0	0	0	9	0		
PH	0	0	0	0	0	9	0		
AU-P ORG	0	0	0	0	0	9	0		
AU-P ANL	0	0	0	0	0	9	0		
	0	0	0	0	0	9	0		
	0	0	0	0	0	9	0		



FOLHELHO DO TOPO E DA BASE DA ZONA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	7	0	0	0	0	0	0	26042.000	27174.000
LONGITUD	7	0	0	0	0	0	0	140603.000	141992.000
UTM-ABC	7	0	0	0	0	0	0	451175.000	493775.000
UTM-ORD	7	0	0	0	0	0	0	9165625.000	9200375.000
M. C.	7	0	0	0	0	0	0	39.000	39.000
FF-S %	7	0	0	0	0	0	0	5.000	20.000
HG-S %	7	0	0	0	0	0	0	1.500	3.000
CA-S %	7	0	0	0	0	0	0	0.700	20.000
TI-S %	7	0	0	0	0	0	0	0.300	1.000
MN-S	5	0	2	0	0	0	0	300.000	3000.000
AG-S	3	0	0	0	4	0	0	0.500	3.000
AS-S	0	0	0	0	7	0	0		
AU-S	0	0	0	0	7	0	0		
B-S	7	0	0	0	0	0	0	100.000	200.000
BA-S	7	0	0	0	0	0	0	300.000	1000.000
BE-S	7	0	0	0	0	0	0	1.000	3.000
BI-S	0	0	0	0	7	0	0		
CD-S	0	0	0	0	7	0	0		
CO-S	7	0	0	0	0	0	0	7.000	200.000
CR-S	7	0	0	0	0	0	0	70.000	300.000
CU-S	7	0	0	0	0	0	0	30.000	300.000
LA-S	7	0	0	0	0	0	0	20.000	100.000
MO-S	3	3	0	0	1	0	0	5.000	200.000
NB-S	6	1	0	0	0	0	0	15.000	20.000
NI-S	7	0	0	0	0	0	0	30.000	200.000
PB-S	7	0	0	0	0	0	0	20.000	500.000
SR-S	0	0	0	0	7	0	0		
SC-S	7	0	0	0	0	0	0	15.000	70.000
SN-S	0	0	0	0	6	1	0		
SR-S	7	0	0	0	0	0	0	100.000	500.000
V-S	7	0	0	0	0	0	0	70.000	500.000
W-S	0	0	0	0	7	0	0		
Y-S	7	0	0	0	0	0	0	20.000	100.000
ZN-S	2	1	0	0	4	0	0	1000.000	2000.000
ZR-S	7	0	0	0	0	0	0	30.000	500.000
CU-AA	7	0	0	0	0	0	0	30.000	130.000
PB-AA	6	0	0	0	0	1	0	20.000	160.000
ZN-AA	7	0	0	0	0	0	0	30.000	940.000
AG-AA	0	0	0	0	1	6	0		
CO-AA	0	0	0	0	0	7	0		
NI-AA	0	0	0	0	0	7	0		
BI-AA	0	0	0	0	0	7	0		
CD-AA	0	0	0	0	0	7	0		
TE-AA	0	0	0	0	0	7	0		
AU-AA	0	0	0	0	0	7	0		
TI-COL %	0	0	0	0	0	7	0		
HG-INS	0	0	0	0	0	7	0		
F-INS	1	0	0	0	0	7	0		
S-INS %	0	0	0	0	0	6	0	700.000	700.000
C-INS %	0	0	0	0	0	7	0		
PH	0	0	0	0	0	7	0		
AU-P ORG	0	0	0	0	0	7	0		

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

## FOLHELHOS E SILTITCS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SFNS.	TRACCS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	112	0	0	0	0	0	0	21685.000	28924.000
LONGITUDE	112	0	0	0	0	0	0	140601.000	146834.000
UTM-ABC	112	0	0	0	0	0	0	303000.000	493850.000
UTM-ORD	112	0	0	0	0	0	0	9111600.000	9334175.000
M. C.	112	0	0	0	0	0	0	39.000	39.000
FE-S %	112	0	0	0	0	0	0	1.500	20.000
MG-S %	112	0	0	0	0	0	0	0.050	10.000
CA-S %	103	1	8	0	0	0	0	0.300	20.000
TI-S %	105	0	7	0	0	0	0	0.100	1.000
MV-S	107	0	5	0	0	0	0	150.000	5000.000
AG-S	15	0	0	0	97	0	0	0.500	2.000
AS-S	0	0	0	0	112	0	0		
AU-S	0	0	0	0	112	0	0		
B-S	112	0	0	0	0	0	0	15.000	1000.000
BA-S	91	0	21	0	0	0	0	200.000	5000.000
BE-S	107	5	0	0	0	0	0	1.000	7.000
BI-S	0	3	0	0	109	0	0		
CD-S	0	0	0	0	112	0	0		
CO-S	112	0	0	0	0	0	0	5.000	200.000
CR-S	112	0	0	0	0	0	0	50.000	700.000
CU-S	112	0	0	0	0	0	0	7.000	200.000
LA-S	112	0	0	0	0	0	0	20.000	200.000
MO-S	40	23	0	0	49	0	0	5.000	70.000
NB-S	103	9	0	0	0	0	0	10.000	50.000
NI-S	112	0	0	0	0	0	0	15.000	300.000
PB-S	112	0	0	0	0	0	0	10.000	500.000
SB-S	0	0	0	0	112	0	0		
SC-S	106	0	0	0	0	6	0	5.000	70.000
SN-S	1	2	0	0	73	31	0	10.000	10.000
SR-S	93	4	0	0	15	0	0	100.000	2000.000
V-S	112	0	0	0	0	0	0	50.000	1000.000
W-S	0	0	0	0	112	0	0		
Y-S	112	0	0	0	0	0	0	15.000	200.000
ZN-S	46	26	0	0	40	0	0	200.000	2000.000
ZR-S	105	0	7	0	0	0	0	30.000	1000.000
CU-AA	112	0	0	0	0	0	0	5.000	260.000
PB-AA	94	1	0	0	0	17	0	5.000	340.000
ZN-AA	111	0	1	0	0	0	0	10.000	690.000
AG-AA	0	0	0	0	42	70	0		
CO-AA	0	0	0	0	0	112	0		
NI-AA	0	0	0	0	0	112	0		
BI-AA	0	0	0	0	0	112	0		
CD-AA	0	0	0	0	0	112	0		
TF-AA	0	0	0	0	0	112	0		
AU-AA	0	0	0	0	0	112	0		
TI-COL %	0	0	0	0	0	112	0		
HG-INS	0	0	0	0	0	112	0		
F-INS	11	0	0	0	0	101	0	350.000	1300.000
S-INS %	0	0	0	0	0	112	0		
C-INS %	0	0	0	0	0	112	0		
PH	0	0	0	0	0	112	0		
AU-P ORG	0	0	0	0	0	112	0		

## FOLHELHO COM CONCRECCES DE ICTIOLITOS

PARAMETRO ANALITICO	VALORES DEFINIÇÃO	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	24	0	0	0	0	0	0	25506.000	28100.000
LONGITUD	24	0	0	0	0	0	0	140787.000	146730.000
UTM-ABC	24	0	0	0	0	0	0	305925.000	488150.000
UTM-ORD	24	0	0	0	0	0	0	9136875.000	9216800.000
M. C.	24	0	0	0	0	0	0	39.000	39.000
FF-S %	24	0	0	0	0	0	0	3.000	20.000
MG-S %	24	0	0	0	0	0	0	1.500	5.000
CA-S %	22	0	2	0	0	0	0	0.700	10.000
TI-S %	22	0	2	0	0	0	0	0.200	1.000
MN-S	24	0	0	0	0	0	0	150.000	5000.000
AG-S	5	0	0	0	19	0	0	0.500	1.500
AS-S	0	0	0	0	24	0	0		
AU-S	0	0	0	0	24	0	0		
B-S	24	0	0	0	0	0	0	15.000	150.000
BA-S	15	0	9	0	0	0	0	300.000	5000.000
RE-S	23	1	0	0	0	0	0	1.000	3.000
BT-S	0	0	0	0	24	0	0		
CD-S	0	0	0	0	24	0	0		
CO-S	24	0	0	0	0	0	0	10.000	150.000
CR-S	24	0	0	0	0	0	0	100.000	500.000
CU-S	24	0	0	0	0	0	0	50.000	500.000
LA-S	24	0	0	0	0	0	0	20.000	200.000
MO-S	19	0	0	0	5	0	0	5.000	500.000
NR-S	21	3	0	0	0	0	0	15.000	30.000
NI-S	19	0	0	0	0	5	0	50.000	700.000
PP-S	24	0	0	0	0	0	0	20.000	100.000
SB-S	0	0	0	0	24	0	0		
SC-S	24	0	0	0	0	0	0	10.000	50.000
SN-S	0	0	0	0	15	8	0		
SR-S	20	0	0	0	4	0	0	100.000	2000.000
V-S	24	0	0	0	0	0	0	100.000	1000.000
W-S	0	0	0	0	24	0	0		
Y-S	24	0	0	0	0	0	0	20.000	100.000
ZN-S	9	6	0	0	0	0	0	200.000	700.000
ZR-S	24	0	0	0	0	0	0	100.000	700.000
CU-AA	24	0	0	0	0	0	0	25.000	270.000
PE-AA	22	0	0	0	0	2	0	5.000	50.000
ZN-AA	24	0	0	0	0	0	0	25.000	640.000
AG-AA	0	0	0	0	13	11	0		
CO-AA	0	0	0	0	0	24	0		
NI-AA	0	0	0	0	0	24	0		
BT-AA	0	0	0	0	0	24	0		
CD-AA	0	0	0	0	0	24	0		
TE-AA	0	0	0	0	0	24	0		
AU-AA	0	0	0	0	0	24	0		

CALCARIOS CALCARENITOS E MARGAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	117	0	0	0	0	0	0	25528.000	28924.000
LONGITUD	117	0	0	0	0	0	0	140645.000	146834.000
JTM-ABC	117	0	0	0	0	0	0	303000.000	492475.000
UTM-ORD	117	0	0	0	0	0	0	9111600.000	9216125.000
M. C.	117	0	0	0	0	0	0	39.000	39.000
FF-S %	117	0	0	0	0	0	0	0.200	20.000
MG-S %	117	0	0	0	0	0	0	0.200	10.000
CA-S %	20	0	97	0	0	0	0	1.500	20.000
TI-S %	117	0	0	0	0	0	0	0.002	1.000
MN-S	65	0	52	0	0	0	0	100.000	5000.000
AG-S	17	0	0	0	99	1	0	0.500	7.000
AS-S	0	0	0	0	117	0	0		
AU-S	0	0	0	0	117	0	0		
B-S	65	32	0	0	20	0	0	10.000	200.000
BA-S	103	0	14	0	0	0	0	20.000	5000.000
BE-S	25	51	0	0	41	0	0	1.000	5.000
BI-S	0	3	0	0	114	0	0		
CD-S	7	10	0	0	99	1	0	20.000	50.000
CO-S	107	4	0	0	5	0	0	5.000	700.000
CR-S	104	4	0	0	9	0	0	10.000	300.000
CU-S	117	0	0	0	0	0	0	5.000	700.000
LA-S	92	8	0	0	17	0	0	20.000	150.000
MO-S	88	12	0	0	15	2	0	5.000	700.000
NR-S	25	74	0	0	13	0	0	10.000	30.000
NI-S	114	1	0	0	2	0	0	5.000	300.000
PE-S	117	0	0	0	0	0	0	10.000	1000.000
SB-S	0	0	0	0	117	0	0		
SC-S	56	9	0	0	52	0	0	5.000	70.000
SN-S	3	0	0	0	113	1	0	10.000	10.000
SR-S	115	0	0	0	2	0	0	100.000	3000.000
V-S	117	0	0	0	0	0	0	10.000	2000.000
W-S	0	0	0	0	117	0	0		
Y-S	97	15	0	0	5	0	0	10.000	200.000
ZN-S	51	16	0	0	50	0	0	200.000	3000.000
ZR-S	108	7	0	0	2	0	0	10.000	700.000
SiO2 T.%	7	0	0	0	0	110	0	1.100	44.800
SiO2 L.%	0	0	0	0	0	117	0		
Al2O3 T%	7	0	0	0	0	110	0	0.200	1.400
Al2O3 B%	0	0	0	0	0	117	0		
MgO-Q %	26	0	0	0	0	91	0	0.500	4.700
CaO-Q %	26	0	0	0	0	91	0	7.300	53.500
Na2O-Q %	0	0	0	0	0	117	0		
K2O-Q %	0	0	0	0	0	117	0		
TiO2-Q %	1	6	0	0	0	110	0	0.700	0.700
CO2-Q %	0	0	0	0	0	117	0		
Fe2O3-Q%	7	0	0	0	0	110	0	0.800	5.800
FeO-Q %	0	0	0	0	0	117	0		
P2O5-Q %	23	3	0	0	0	91	0	0.050	0.490
MnO2-Q %	0	0	0	0	0	117	0		
MnO-Q %	0	0	0	0	0	117	0		
CR2O3-C%	0	0	0	0	0	117	0		
SO3-Q %	0	0	0	0	0	117	0		

CALCARIOS CALCARENITOS E MARGAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SEVS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
V205-Q %	0	0	0	0	0	117	0		
NB205-Q%	0	0	0	0	0	117	0		
W03-Q %	0	0	0	0	0	117	0		
MV-Q %	0	0	0	0	0	117	0		
CL-Q %	0	0	0	0	0	117	0		
BI-Q %	0	0	0	0	0	117	0		
S-Q %	0	0	0	0	0	117	0		
MO-Q %	0	0	0	0	0	117	0		
K-Q %	0	0	0	0	0	117	0		
C FIX %	0	0	0	0	0	117	0		
SNO2-Q %	0	0	0	0	0	117	0		
BF0-Q %	0	0	0	0	0	117	0		
L120-Q %	0	7	0	0	0	110	0		
CAF2-Q %	0	0	0	0	0	117	0		
CINZAS %	0	0	0	0	0	117	0	14.800	43.100
PER-FOG%	26	0	0	0	0	91	0		
MAT.VOL%	0	0	0	0	0	117	0		
H2O CB %	0	0	0	0	0	117	0		
UMIDADE	0	0	0	0	0	117	0	1.000	9.700
R203-Q %	19	0	0	0	0	98	0	0.700	21.900
R. INSOL.	19	0	0	0	0	98	0		
NB+TA-Q%	0	0	0	0	0	117	0		
U-Q %	0	0	0	0	0	117	0	5.000	410.000
CU-AA	117	0	0	0	0	0	0	10.000	380.000
PR-AA	85	1	0	0	0	31	0	10.000	970.000
ZN-AA	115	0	2	0	0	0	0		
AG-AA	0	0	0	0	0	87	0		
CO-AA	0	0	0	0	0	33	0		
NI-AA	0	0	0	0	0	117	0		
BI-AA	0	0	0	0	0	117	0		
CD-AA	0	0	0	0	0	117	0		
TE-AA	0	0	0	0	0	117	0		
AU-AA	0	0	0	0	0	117	0		
AS-COL	0	0	0	0	0	117	0		
SB-COL	0	0	0	0	0	117	0		
CXCU-COL	0	0	0	0	0	117	0		
MET PES	0	0	0	0	0	117	0		
CO-COL	0	0	0	0	0	117	0		
MO-COL	0	0	0	0	0	117	0		
W-COL	0	0	0	0	0	117	0	0.010	0.130
P-COL	10	1	0	0	0	106	0		
SE-COL	0	0	0	0	0	117	0		
U-COL	0	0	0	0	0	117	0		
TI-COL %	0	0	0	0	0	117	0		
HG-INS	0	0	0	0	0	117	0	50.000	3200.000
F-INS	93	1	0	0	0	23	0		
S-INS %	0	0	0	0	0	117	0		
C-INS %	0	0	0	0	0	117	0		
PH	0	0	0	0	0	117	0		
AU-P ORG	0	0	0	0	0	117	0		
AU-P ANL	0	0	0	0	0	117	0		
	0	0	0	0	0	117	0		

FOLHELHOS E PARGAS BETUMINOSAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	24	0	0	0	0	0	0	25503.000	27765.000
LONGITUD	24	0	0	0	0	0	0	140555.000	146306.000
UTM-ABC	24	0	0	0	0	0	0	318925.000	495250.000
UTM-DRD	24	0	0	0	0	0	0	9147275.000	9216875.000
M. C.	24	0	0	0	0	0	0	39.000	39.000
FE-S %	24	0	0	0	0	0	0	2.000	15.000
MG-S %	24	0	0	0	0	0	0	0.700	10.000
CA-S %	20	0	4	0	0	0	0	10.000	20.000
TI-S %	24	0	0	0	0	0	0	0.070	0.500
MN-S	17	0	7	0	0	0	0	1000.000	5000.000
AG-S	6	0	0	0	18	0	0	0.500	10.000
AS-S	0	0	0	0	24	0	0		
AU-S	0	0	0	0	24	0	0		
B-S	24	0	0	0	0	0	0	10.000	200.000
RA-S	21	0	3	0	0	0	0	150.000	5000.000
BE-S	15	0	0	0	0	0	0	1.000	3.000
BI-S	0	4	0	0	20	0	0		
CO-S	3	2	0	0	19	0	0	20.000	70.000
CO-S	24	0	0	0	0	0	0	5.000	100.000
CR-S	24	0	0	0	0	0	0	30.000	200.000
CU-S	24	0	0	0	0	0	0	20.000	300.000
LA-S	24	0	0	0	0	0	0	20.000	200.000
MO-S	23	1	0	0	0	0	0	5.000	200.000
NH-S	13	11	0	0	0	0	0	10.000	20.000
NI-S	23	0	0	0	0	1	0	20.000	300.000
PB-S	24	0	0	0	0	0	0	30.000	10000.000
SB-S	0	0	0	0	24	0	0		
SC-S	23	1	0	0	0	0	0	5.000	20.000
SN-S	0	1	0	0	23	0	0		
SR-S	24	0	0	0	0	0	0	200.000	1500.000
V-S	24	0	0	0	0	0	0	100.000	1500.000
W-S	0	0	0	0	24	0	0		
Y-S	24	0	0	0	0	0	0	15.000	150.000
ZN-S	16	4	0	0	4	0	0	200.000	5000.000
ZR-S	24	0	0	0	0	0	0	20.000	500.000
TA205-O%	0	0	0	0	0	24	0		
BAO-O %	0	0	0	0	0	24	0		
ZR02-O %	0	0	0	0	0	24	0		
CU-O %	0	0	0	0	0	24	0		
NI-O %	0	0	0	0	0	24	0		
PB-O %	1	0	0	0	0	23	0	0.130	0.130
ZN-O %	1	0	0	0	0	23	0	0.290	0.290
FE-O %	0	0	0	0	0	24	0		
P-O %	0	0	0	0	0	24	0		
NA-O %	0	0	0	0	0	24	0		
CU-AA	24	0	0	0	0	0	0	15.000	290.000
PB-AA	14	0	4	0	0	7	0	15.000	580.000
ZN-AA	20	0	4	0	0	0	0	50.000	1000.000
AG-AA	0	0	0	0	0	15	0		
CO-AA	0	0	0	0	0	24	0		
NI-AA	0	0	0	0	0	24	0		
BI-AA	0	0	0	0	0	24	0		

## FOLHELHOS E MARGAS BETUMINOSAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
CO-AA	0	0	0	0	0	24	0		
TF-AA	0	0	0	0	0	24	0		
AU-AA	0	0	0	0	0	24	0		
TI-COL %	0	0	0	0	0	24	0		
HG-INS	0	0	0	0	0	24	0		
F-INS	10	0	0	0	0	14	0	375.000	1900.000
S-INS %	0	0	0	0	0	24	0		
C-INS %	0	0	0	0	0	24	0		
PH	0	0	0	0	0	24	0		
AU-P ORG	0	0	0	0	0	24	0		
AU-P ANL	0	0	0	0	0	24	0		
	0	0	0	0	0	24	0		

FOLHELHOS E SILTITOS II

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	143	0	0	0	0	0	0	21685,000	28924,000
LONGITUD	143	0	0	0	0	0	0	140601,000	146834,000
UTM-ABC	143	0	0	0	0	0	0	303000,000	493850,000
UTM-ORD	143	0	0	0	0	0	0	9111600,000	9334175,000
M. C.	143	0	0	0	0	0	0	39,000	39,000
FF-S %	143	0	0	0	0	0	0	1,500	20,000
HG-S %	143	0	0	0	0	0	0	0,050	10,000
CA-S %	132	1	10	0	0	0	0	0,300	20,000
TI-S %	134	0	9	0	0	0	0	0,100	1,000
MN-S	136	0	7	0	0	0	0	150,000	5000,000
AG-S	23	0	0	0	120	0	0	0,500	3,000
AS-S	0	0	0	0	143	0	0		
AU-S	0	0	0	0	143	0	0		
B-S	143	0	0	0	0	0	0	15,000	1000,000
BA-S	113	0	30	0	0	0	0	200,000	5000,000
BF-S	137	6	0	0	0	0	0	1,000	7,000
BI-S	0	3	0	0	140	0	0		
CD-S	0	0	0	0	143	0	0		
CO-S	143	0	0	0	0	0	0	5,000	200,000
CR-S	143	0	0	0	0	0	0	50,000	700,000
CU-S	143	0	0	0	0	0	0	7,000	500,000
LA-S	143	0	0	0	0	0	0	20,000	200,000
MO-S	62	26	0	0	55	0	0	5,000	500,000
NR-S	130	13	0	0	0	0	0	10,000	50,000
NI-S	138	0	0	0	0	5	0	15,000	700,000
PI-S	143	0	0	0	0	0	0	10,000	500,000
SB-S	0	0	0	0	143	0	0		
SC-S	137	0	0	0	0	6	0	5,000	70,000
SN-S	1	2	0	0	100	40	0	10,000	10,000
SR-S	120	4	0	0	19	0	0	100,000	2000,000
V-S	143	0	0	0	0	0	0	50,000	1000,000
W-S	0	0	0	0	143	0	0		
Y-S	143	0	0	0	0	0	0	15,000	200,000
ZN-S	57	33	0	0	53	0	0	200,000	2000,000
ZR-S	136	0	7	0	0	0	0	30,000	1000,000
CU-AA	143	0	0	0	0	0	0	5,000	270,000
PB-AA	122	1	0	0	0	20	0	5,000	340,000
ZN-AA	142	0	0	0	0	0	0	10,000	940,000
AG-AA	0	0	0	0	55	87	0		
CO-AA	0	0	0	0	0	143	0		
NI-AA	0	0	0	0	0	143	0		
BI-AA	0	0	0	0	0	143	0		
CD-AA	0	0	0	0	0	143	0		
TF-AA	0	0	0	0	0	143	0		
AU-AA	0	0	0	0	0	143	0		
TI-COL %	0	0	0	0	0	143	0		
HG-INS	0	0	0	0	0	143	0		
F-INS	12	0	0	0	0	131	0	350,000	1300,000
S-INS %	0	0	0	0	0	143	0		
C-INS %	0	0	0	0	0	143	0		
PH	0	0	0	0	0	143	0		
AU-P ORG	0	0	0	0	0	143	0		



BRECHA CALCARIA E MARGA BETUMINOSA DA ZONA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	14	0	0	0	0	0	0	26042.000	26808.000
LONGITUD	14	0	0	0	0	0	0	140482.000	141992.000
UTM-ABC	14	0	0	0	0	0	0	451175.000	497500.000
UTM-ORD	14	0	0	0	0	0	0	9176850.000	9200375.000
M. C.	14	0	0	0	0	0	0	39.000	39.000
FE-S %	14	0	0	0	0	0	0	1.000	15.000
MG-S %	14	0	0	0	0	0	0	0.700	10.000
CA-S %	4	0	10	0	0	0	0	1.500	20.000
TI-S %	14	0	0	0	0	0	0	0.020	1.000
MN-S	2	0	12	0	0	0	0	500.000	5000.000
AG-S	2	0	0	0	12	0	0	3.000	7.000
AS-S	0	0	0	0	14	0	0		
AU-S	0	0	0	0	14	0	0		
B-S	11	3	0	0	0	0	0	10.000	100.000
BA-S	14	0	0	0	0	0	0	70.000	700.000
BF-S	2	10	0	0	2	0	0	1.500	2.000
BI-S	0	0	0	0	14	0	0		
CO-S	6	2	0	0	6	0	0	20.000	70.000
CP-S	14	0	0	0	0	0	0	5.000	70.000
CR-S	13	1	0	0	0	0	0	10.000	100.000
CU-S	14	0	0	0	0	0	0	30.000	200.000
LA-S	14	0	0	0	0	0	0	20.000	100.000
MO-S	13	0	0	0	1	0	0	15.000	200.000
NB-S	1	11	0	0	2	0	0	15.000	15.000
NI-S	14	0	0	0	0	0	0	10.000	300.000
PR-S	13	0	1	0	0	0	0	30.000	10000.000
SB-S	0	0	0	0	14	0	0		
SC-S	8	1	0	0	5	0	0	5.000	20.000
SN-S	0	0	0	0	14	0	0		
SR-S	14	0	0	0	0	0	0	100.000	1000.000
V-S	14	0	0	0	0	0	0	30.000	1000.000
W-S	0	0	0	0	14	0	0		
Y-S	13	1	0	0	0	0	0	20.000	150.000
ZN-S	12	1	0	0	1	0	0	200.000	5000.000
ZR-S	14	0	0	0	0	0	0	10.000	150.000
TA205-Q %	0	0	0	0	0	14	0		
BA0-Q %	0	0	0	0	0	14	0		
ZR02-Q %	0	0	0	0	0	14	0		
CU-Q %	0	0	0	0	0	14	0		
NI-Q %	0	0	0	0	0	14	0		
PR-Q %	4	0	0	0	0	10	0	0.100	2.110
ZN-Q %	4	0	0	0	0	10	0	0.040	0.330
FE-Q %	0	0	0	0	0	14	0		
P-Q %	0	0	0	0	0	14	0		
YA-Q %	0	0	0	0	0	14	0		
CU-AA	14	0	0	0	0	0	0	25.000	250.000
PR-AA	7	0	0	0	0	0	0	10.000	840.000
ZN-AA	6	0	0	0	0	0	0	55.000	410.000
AG-AA	0	0	0	0	7	7	0		
CO-AA	0	0	0	0	0	14	0		
NI-AA	0	0	0	0	0	14	0		
BI-AA	0	0	0	0	0	14	0		

CPRM

CONTAGEM DE MATRIZ PRESTA

26-05-76

FLA: 2

S E A S

PROJETO = SANTANA

CENTRO DE CUSTO = 1523.310

BRECHA CALCARIA E MARGA BETUMINOSA DA ZONA MINERALIZADA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
CO-AA	0	0	0	0	0	14	0		
TE-AA	0	0	0	0	0	14	0		
AU-AA	0	0	0	0	0	14	0		
AS-COL	0	0	0	0	0	14	0		
SB-COL	0	0	0	0	0	14	0		
CXCU-COL	0	0	0	0	0	14	0		
MET PES	0	0	0	0	0	14	0		
CO-COL	0	0	0	0	0	14	0		
MO-COL	0	0	0	0	0	14	0		
W-COL	0	0	0	0	0	14	0		
P-COL	1	0	0	0	0	13	0	0.020	0.020
SF-COL	0	0	0	0	0	14	0		
U-COL	0	0	0	0	0	14	0		
TI-COL %	0	0	0	0	0	14	0		
HG-INS	0	0	0	0	0	14	0		
F-INS	8	0	0	0	0	6	0	150.000	900.000
S-INS %	0	0	0	0	0	14	0		
C-INS %	0	0	0	0	0	14	0		
PH	0	0	0	0	0	14	0		
AU-P ORG	0	0	0	0	0	14	0		
AU-P ANL	0	0	0	0	0	14	0		
	0	0	0	0	0	14	0		
	0	0	0	0	0	14	0		

FOLHELHOS BETUMINOSOS DA BASE DA GIPSITA E INTERC.NO CALC.

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SEVS.	SUPERIOR LIM. SEVS.	TRACOS	NAO DETECTADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	19	0	0	0	0	0	0	25503.000	27765.000
LONGITUD	19	0	0	0	0	0	0	140987.000	146306.000
UTM-ABC	19	0	0	0	0	0	0	318925.000	482000.000
UTM-ORD	19	0	0	0	0	0	0	9147275.000	9216875.000
M. C.	19	0	0	0	0	0	0	39.000	39.000
FF-S %	19	0	0	0	0	0	0	2.000	10.000
HG-S %	19	0	0	0	0	0	0	1.500	10.000
CA-S %	17	0	2	0	0	0	0	10.000	20.000
TI-S %	19	0	0	0	0	0	0	0.150	0.500
MN-S	17	0	2	0	0	0	0	1000.000	5000.000
AG-S	4	0	0	0	15	0	0	0.500	10.000
AS-S	0	0	0	0	19	0	0		
AU-S	0	0	0	0	19	0	0		
B-S	19	0	0	0	0	0	0	15.000	200.000
BA-S	16	0	3	0	0	0	0	200.000	5000.000
BF-S	15	4	0	0	0	0	0	1.000	3.000
BI-S	0	4	0	0	0	0	0		
CD-S	0	1	0	0	18	0	0	5.000	100.000
CO-S	19	0	0	0	0	0	0	30.000	200.000
CR-S	19	0	0	0	0	0	0	20.000	300.000
CU-S	19	0	0	0	0	0	0	20.000	200.000
LA-S	19	0	0	0	0	0	0	5.000	200.000
MO-S	18	1	0	0	0	0	0	10.000	20.000
NB-S	13	6	0	0	0	0	0	20.000	200.000
NI-S	18	0	0	0	0	1	0	30.000	700.000
PB-S	19	0	0	0	0	0	0		
SB-S	0	0	0	0	19	0	0	5.000	20.000
SC-S	19	0	0	0	0	0	0		
SN-S	0	1	0	0	18	0	0		
SR-S	19	0	0	0	0	0	0	200.000	1500.000
V-S	19	0	0	0	0	0	0	100.000	1500.000
W-S	0	0	0	0	19	0	0		
Y-S	19	0	0	0	0	0	0	15.000	150.000
ZN-S	11	4	0	0	4	0	0	200.000	1500.000
ZR-S	19	0	0	0	0	0	0	20.000	500.000
CU-AA	19	0	0	0	0	0	0	15.000	290.000
PB-AA	12	0	0	0	0	0	0	15.000	280.000
ZN-AA	19	0	0	0	0	0	0	50.000	1000.000
AG-AA	0	0	0	0	0	11	0		
CO-AA	0	0	0	0	0	19	0		
NI-AA	0	0	0	0	0	0	0		
BI-AA	0	0	0	0	0	0	0		
CD-AA	0	0	0	0	0	0	0		
TE-AA	0	0	0	0	0	0	0		
AU-AA	0	0	0	0	0	0	0		
TI-COL %	0	0	0	0	0	0	0		
HG-INS	0	0	0	0	0	0	0		
F-INS	9	0	0	0	0	0	0	375.000	1900.000
S-INS %	0	0	0	0	0	0	0		
C-INS %	0	0	0	0	0	0	0		
PH	0	0	0	0	0	0	0		
AU-P ORG 444	0	0	0	0	0	0	0		

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CENTRO DE CUSTO - 1523.310

GIPSITA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	60	0	0	0	0	0	0	26640.000	28924.000
LONGITUD	60	0	0	0	0	0	0	140806.000	146926.000
JTM-ARC	60	0	0	0	0	0	0	300075.000	487550.000
JTM-ORD	60	0	0	0	0	0	0	9111600.000	9181675.000
M. C.	60	0	0	0	0	0	0	39.000	39.000
FE-S %	49	11	0	0	0	0	0	0.050	15.000
MG-S %	49	11	0	0	0	0	0	0.020	2.000
CA-S %	19	0	41	0	0	0	0	10.000	20.000
TI-S %	56	4	0	0	0	0	0	0.002	0.700
MN-S	46	11	1	0	2	0	0	10.000	2000.000
AG-S	0	1	0	0	59	0	0		
AS-S	0	0	0	0	60	0	0		
AU-S	0	0	0	0	60	0	0		
B-S	15	17	0	0	23	0	0	10.000	150.000
BA-S	44	11	0	0	5	0	0	20.000	3000.000
BF-S	7	18	0	0	35	0	0	1.000	3.000
BI-S	0	4	0	0	55	0	0		
CD-S	0	1	0	0	59	0	0		
CO-S	16	17	0	0	27	0	0	5.000	300.000
CR-S	18	33	0	0	9	0	0	10.000	100.000
CU-S	22	27	0	0	11	0	0	5.000	200.000
DA-S	37	1	0	0	22	0	0	20.000	70.000
DU-S	6	5	0	0	48	1	0	5.000	30.000
NB-S	2	58	0	0	0	0	0	10.000	15.000
NI-S	12	6	0	0	42	0	0	5.000	500.000
PB-S	29	16	0	0	15	0	0	10.000	500.000
SB-S	0	0	0	0	60	0	0		
SC-S	8	0	0	0	52	0	0	5.000	20.000
SN-S	0	0	0	0	60	0	0		
SR-S	40	0	14	0	0	6	0	200.000	5000.000
V-S	59	1	0	0	0	0	0	10.000	500.000
W-S	0	0	0	0	60	0	0		
Y-S	19	29	0	0	12	0	0	10.000	150.000
ZN-S	9	32	0	0	19	0	0	200.000	1500.000
ZR-S	27	23	1	0	9	0	0	10.000	150.000
SI02 T.%	0	0	0	0	0	60	0		
SI02 I.%	0	0	0	0	0	60	0		
AL2O3 T%	0	0	0	0	0	60	0		
AL2O3 B%	0	0	0	0	0	60	0		
4GO-Q %	0	0	0	0	0	60	0		
CAO-Q %	37	0	0	0	0	23	0	8.900	33.600
VA2O-Q %	0	0	0	0	0	60	0		
K2O-Q %	0	0	0	0	0	60	0		
TIO2-Q %	0	0	0	0	0	60	0		
CO2-Q %	0	0	0	0	0	60	0		
FE2O3-Q%	0	0	0	0	0	60	0		
FE0-Q %	0	0	0	0	0	60	0		
P2O5-Q %	0	0	0	0	0	60	0		
MNO2-Q %	0	0	0	0	0	60	0		
MNO-Q %	0	0	0	0	0	60	0		
SP2O3-Q%	0	0	0	0	0	60	0		
SO3-Q %	37	0	0	0	0	23	0	9.300	48.000

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## GIPSITA

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
V205-Q %	0	0	0	0	0	60	0		
VR205-Q%	0	0	0	0	0	60	0		
W03-Q %	0	0	0	0	0	60	0		
4V-Q %	0	0	0	0	0	60	0		
CL-Q %	0	0	0	0	0	60	0		
BI-Q %	0	0	0	0	0	60	0		
S-Q %	0	0	0	0	0	60	0		
40-Q %	0	0	0	0	0	60	0		
K-Q %	0	0	0	0	0	60	0		
C FIX %	0	0	0	0	0	60	0		
SNO2-Q %	0	0	0	0	0	60	0		
BF7-Q %	0	0	0	0	0	60	0		
LI20-Q %	1	36	0	0	0	23	0	0.010	0.010
CAF2-Q %	0	0	0	0	0	60	0		
CINZAS %	0	0	0	0	0	60	0		
PER-FDGZ	0	0	0	0	0	60	0		
MAT.VOL%	0	0	0	0	0	60	0		
H2O CB %	37	0	0	0	0	23	0	14.900	23.200
UMIDADE	0	0	0	0	0	60	0		
R203-Q %	35	2	0	0	0	23	0	0.200	15.000
R.INSOL.	36	1	0	0	0	23	0	0.100	49.000
VB+TA-Q%	0	0	0	0	0	60	0		
U-Q %	0	0	0	0	0	60	0		
CU-AA	35	25	0	0	0	0	0	5.000	100.000
PR-AA	5	6	0	0	4	45	0	10.000	170.000
ZN-AA	52	7	1	0	0	0	0	5.000	250.000
AG-AA	0	0	0	0	11	49	0		
CO-AA	0	0	0	0	0	60	0		
NI-AA	0	0	0	0	0	60	0		
BI-AA	0	0	0	0	0	60	0		
CD-AA	0	0	0	0	0	60	0		
TE-AA	0	0	0	0	0	60	0		
AU-AA	0	0	0	0	0	60	0		
TI-COL %	0	0	0	0	0	60	0		
HG-INS	0	0	0	0	0	60	0		
F-INS	8	30	0	0	0	22	0	70.000	750.000
S-INS %	0	0	0	0	0	60	0		
C-INS %	0	0	0	0	0	60	0		
PH	0	0	0	0	0	60	0		
AU-P ORG	0	0	0	0	0	60	0		
AU-P ANL	0	0	0	0	0	60	0		
	0	0	0	0	0	60	0		

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## AMOSTRAS ORIGINAIS MENOR QUE CIENTA MESH

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	100	0	C	0	0	0	C	26018.000	27091.000
LONGITUDE	100	C	C	0	0	0	C	140876.000	141996.000
UTM-ABC	100	0	C	0	0	0	C	451050.000	485400.000
UTM-GRC	100	0	C	0	0	0	C	9168175.000	9201100.000
M. C.	100	0	C	0	0	0	C	39.000	39.000
FE-S %	100	0	C	0	0	0	C	1.000	10.000
MG-S %	100	0	C	0	0	0	C	0.070	1.500
CA-S %	100	0	C	0	0	0	C	0.070	5.000
TI-S %	52	0	4E	0	0	0	C	0.500	1.000
MN-S	95	0	5	0	0	0	C	500.000	5000.000
B-S	100	0	C	0	0	0	C	10.000	200.000
BA-S	8E	0	12	0	0	0	C	700.000	5000.000
BE-S	17	52	C	0	31	0	C	1.000	2.000
CC-S	52	8	C	0	0	0	C	5.000	15.000
CR-S	100	0	C	0	0	0	C	10.000	200.000
CL-S	100	0	C	0	0	0	C	5.000	100.000
LA-S	9E	1	0	0	1	0	C	20.000	300.000
MO-S	16	31	C	0	53	0	C	5.000	15.000
NF-S	100	0	C	0	0	0	C	10.000	70.000
NI-S	97	3	C	0	0	0	C	5.000	100.000
PI-S	100	0	C	0	0	0	C	10.000	70.000
SC-S	17	7	0	0	0	76	C	5.000	30.000
SR-S	95	5	0	0	0	0	C	100.000	300.000
V-S	100	0	0	0	0	0	C	30.000	200.000
Y-S	100	0	C	0	0	0	C	10.000	700.000
ZN-S	10	14	C	0	75	1	C	200.000	500.000
ZR-S	23	C	77	0	0	0	C	500.000	1000.000
CU-AA	76	24	0	0	0	0	C	5.000	35.000
PE-AA	92	C	0	0	0	8	C	5.000	35.000
ZN-AA	100	C	0	0	0	0	C	5.000	130.000
FE-AA	9E	0	1	0	0	0	C	2400.000	19000.000
MN-AA	100	0	C	0	0	0	C	65.000	850.000

## REPLICAS DE CAMP E ANALITICAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACCS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	100	0	C	0	0	0	C	26018.000	27091.000
LONGITUDE	100	C	C	0	0	0	C	140876.000	141996.000
UTM-ABC	100	0	C	0	0	0	C	451050.000	485400.000
UTM-ORC.	100	0	C	0	0	0	C	9168175.000	9201100.000
M. C.	100	0	C	0	0	0	C	39.000	39.000
FE-S %	100	0	0	0	0	0	C	1.000	10.000
MG-S %	100	0	0	0	0	0	C	0.070	2.000
CA-S %	100	0	0	0	0	0	C	0.070	5.000
TI-S %	49	0	51	0	0	0	C	0.700	1.000
MN-S	100	0	0	0	0	0	C	300.000	5000.000
B-S	100	0	0	0	0	0	C	10.000	150.000
BA-S	86	0	14	0	0	0	C	700.000	5000.000
BE-S	29	52	C	0	19	0	C	1.000	5.000
CO-S	98	2	C	0	0	0	C	5.000	20.000
CR-S	100	0	0	0	0	0	C	10.000	500.000
CL-S	98	2	0	0	0	0	C	5.000	50.000
LA-S	86	14	0	0	0	0	C	20.000	500.000
MO-S	24	30	C	0	46	0	C	5.000	15.000
NF-S	100	0	C	0	0	0	C	10.000	70.000
NI-S	82	18	C	0	0	0	C	5.000	150.000
PR-S	100	0	C	0	0	0	C	10.000	70.000
SC-S	18	3	C	0	0	79	C	5.000	30.000
SR-S	86	14	0	0	0	0	C	100.000	300.000
V-S	100	0	C	0	0	0	C	30.000	200.000
Y-S	100	0	C	0	0	0	C	10.000	500.000
ZN-S	8	13	C	0	0	79	C	200.000	500.000
ZR-S	21	0	79	0	0	0	C	200.000	1000.000
CU-AA	97	3	C	0	0	0	C	5.000	35.000
PE-AA	100	0	0	0	0	0	C	5.000	35.000
ZN-AA	100	0	0	0	0	0	C	5.000	130.000
FE-AA	C	0	C	0	0	100	C		
MN-AA	0	0	C	0	0	100	C		

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## FUNDAÇÃO ORIGINAL E REPLICAS

PARÂMETRO ANALÍTICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACCS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	40	0	C	0	0	0	C	26018.000	26051.000
LONGITUDE	40	0	C	0	0	0	C	141937.000	141996.000
UTM-ABC	40	0	C	0	0	0	C	451050.000	452850.000
UTM-CRC	40	0	C	0	0	0	C	9200100.000	9201100.000
N. C.	40	0	C	0	0	0	C	39.000	39.000
FE-S %	40	0	0	0	0	0	C	1.000	5.000
HG-S %	40	0	0	0	0	0	C	0.100	0.700
CA-S %	40	0	0	0	0	0	C	0.100	1.000
TI-S %	27	0	13	0	0	0	C	0.500	1.000
MN-S	40	0	0	0	0	0	0	500.000	2000.000
B-S	40	0	0	0	0	0	0	20.000	150.000
BA-S	40	0	0	0	0	0	C	1000.000	5000.000
BE-S	5	33	C	0	2	0	C	1.000	2.000
CO-S	38	2	C	0	0	0	C	5.000	7.000
CR-S	40	0	0	0	0	0	C	10.000	100.000
CL-S	40	0	0	0	0	0	C	5.000	20.000
LA-S	40	0	0	0	0	0	C	20.000	300.000
MO-S	0	4	C	0	36	0	C	10.000	50.000
NE-S	40	0	C	0	0	0	C	5.000	30.000
NI-S	40	0	C	0	0	0	C	10.000	50.000
PE-S	40	0	C	0	0	0	C	5.000	5.000
SC-S	1	1	0	0	0	38	C	5.000	5.000
SR-S	31	9	0	0	0	0	C	100.000	150.000
V-S	40	0	0	0	0	0	C	30.000	70.000
Y-S	40	0	0	0	0	0	C	15.000	150.000
ZK-S	1	2	C	0	19	18	C	500.000	500.000
ZR-S	2	0	23	0	0	0	C	1000.000	1000.000
CU-AA	40	0	0	0	0	0	0	5.000	10.000
PB-AA	40	0	0	0	0	0	0	10.000	25.000
ZN-AA	40	0	0	0	0	0	0	15.000	40.000
FE-AA	20	0	0	0	0	20	C	3000.000	8800.000
MN-AA	20	0	0	0	0	20	C	110.000	290.000



CORRENTINEC CFIGINAIS E REPLICAS

PARAMETRO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACCS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
ANALITICO							C	26294.000	26437.000
LATITUDE	40	0	C	0	0	0	C	141688.000	141722.000
LONGITUDE	40	0	C	0	0	0	C	459475.000	460525.000
UTM-ABC	40	0	C	0	0	0	C	5188250.000	5189575.000
UTM-CRC	40	0	C	0	0	0	C	39.000	39.000
M. C.	40	0	0	0	0	0	C	1.000	10.000
FE-S %	40	0	0	0	0	0	C	0.070	1.500
MG-S %	40	0	0	0	0	0	C	0.150	2.000
CA-S %	40	0	0	0	0	0	C	0.700	1.000
TI-S %	18	0	22	0	0	0	C	300.000	5000.000
MN-S	39	0	1	0	0	0	C	20.000	200.000
B-S	40	0	C	0	0	0	C	700.000	3000.000
BA-S	40	0	0	0	0	0	C	1.000	1.500
BE-S	4	25	C	0	11	0	C	5.000	20.000
CO-S	38	2	0	0	0	0	C	10.000	500.000
CR-S	40	0	C	0	0	0	C	5.000	100.000
CU-S	40	0	0	0	0	0	C	20.000	150.000
LA-S	35	5	C	0	0	0	C	5.000	7.000
MO-S	2	11	C	0	27	0	C	10.000	50.000
ME-S	40	0	C	0	0	0	C	5.000	70.000
NI-S	40	0	C	0	0	0	C	10.000	70.000
PB-S	40	0	0	0	0	0	C	5.000	20.000
SC-S	2	4	0	0	0	34	C	100.000	150.000
SR-S	34	6	0	0	0	0	C	30.000	150.000
V-S	40	0	C	0	0	0	C	10.000	200.000
Y-S	40	0	C	0	0	0	C	200.000	200.000
ZN-S	1	4	0	0	18	17	C	500.000	1000.000
ZR-S	6	0	34	0	0	0	C	5.000	25.000
CU-AA	37	3	C	0	0	0	C	5.000	25.000
PE-AA	40	0	C	0	0	0	C	5.000	60.000
ZN-AA	40	0	0	0	0	0	C	2800.000	9800.000
FE-AA	20	0	0	0	0	20	C	50.000	850.000
MN-AA	20	0	0	0	0	20	C		

## GAMELEIRA ORIGINALS E REPLICAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO CETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	40	0	0	0	0	0	C	26562.000	26621.000
LONGITUD	40	0	0	0	0	0	C	141207.000	141233.000
UTM-ABC	40	0	0	0	0	0	0	474475.000	475250.000
UTM-CRC	40	0	0	0	0	0	0	5182600.000	5184425.000
M. C.	40	0	0	0	0	0	0	39.000	39.000
FE-S %	40	0	0	0	0	0	C	1.000	5.000
MG-S %	40	0	0	0	0	0	0	0.100	1.500
CA-S %	40	0	0	0	0	0	C	0.070	3.000
TI-S %	18	0	22	0	0	0	0	0.500	1.000
MN-S	40	0	0	0	0	0	0	500.000	2000.000
B-S	40	0	0	0	0	0	0	10.000	100.000
BA-S	40	0	0	0	0	0	C	700.000	5000.000
BE-S	7	22	0	0	11	0	0	1.000	1.500
CO-S	36	4	0	0	0	0	0	5.000	10.000
CR-S	40	0	0	0	0	0	0	10.000	150.000
CU-S	38	2	0	0	0	0	C	5.000	100.000
LA-S	35	5	0	0	0	0	C	20.000	200.000
MO-S	4	19	0	0	17	0	0	5.000	7.000
NE-S	40	0	0	0	0	0	C	10.000	50.000
NI-S	38	2	0	0	0	0	0	5.000	50.000
PE-S	40	0	0	0	0	0	C	10.000	50.000
SC-S	6	2	0	0	0	32	0	5.000	10.000
SR-S	37	3	0	0	0	0	C	100.000	150.000
V-S	40	0	0	0	0	0	C	50.000	100.000
Y-S	40	0	0	0	0	0	C	10.000	200.000
ZN-S	2	7	0	0	14	17	0	200.000	200.000
ZR-S	8	0	32	0	0	0	C	700.000	1000.000
CU-AA	30	10	0	0	0	0	0	5.000	20.000
PE-AA	40	0	0	0	0	0	0	5.000	30.000
ZN-AA	40	0	0	0	0	0	0	10.000	85.000
FE-AA	20	0	0	0	0	20	0	2000.000	13000.000
MN-AA	20	0	0	0	0	20	C	65.000	600.000

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CARRANQUEOS ORIGINAIS E REPLICAS

PARAMETRO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
ANALITICO					0	0	C	26533.000	26595.000
LATITUDE	40	0	C	0	0	C	C	140876.000	140919.000
LONGITUDE	40	0	C	0	0	0	C	484100.000	485400.000
UTM-ABC	40	0	C	0	0	0	C	9183400.000	9185300.000
UTM-ORC	40	C	C	0	0	0	C	39.000	39.000
M. C.	40	0	C	0	0	0	C	1.500	10.000
FE-S	40	0	C	0	0	0	C	0.300	2.000
MG-S	40	0	C	0	0	0	C	1.000	5.000
CA-S	40	0	C	0	0	0	C	0.500	1.000
TI-S	29	0	11	0	0	0	C	500.000	2000.000
MN-S	40	0	C	0	0	0	C	10.000	100.000
B-S	40	0	C	0	0	0	C	1500.000	5000.000
BA-S	36	0	4	0	0	0	C	1.000	5.000
BE-S	29	11	0	0	0	0	C	5.000	20.000
CO-S	40	0	0	0	0	0	C	20.000	200.000
CR-S	40	0	0	0	0	0	C	15.000	50.000
CU-S	40	0	C	0	0	0	C	20.000	500.000
LA-S	40	0	C	0	0	0	C	5.000	15.000
MO-S	26	10	C	0	2	0	C	10.000	50.000
NB-S	40	0	C	0	0	0	C	15.000	150.000
NI-S	40	0	0	0	0	0	C	15.000	70.000
PE-S	40	0	C	0	0	0	C	5.000	30.000
SC-S	25	0	C	0	0	15	C	100.000	300.000
SR-S	40	C	0	0	0	0	C	50.000	200.000
V-S	40	0	C	0	0	0	C	10.000	300.000
Y-S	40	0	C	0	0	7	C	200.000	500.000
ZN-S	14	14	C	0	5	0	C	200.000	1000.000
ZR-S	25	0	15	0	0	0	C	10.000	35.000
CU-AA	40	0	0	0	0	0	C	15.000	35.000
PE-AA	22	C	C	0	0	8	C	30.000	130.000
ZN-AA	40	C	C	0	0	0	C	6400.000	19000.000
FE-AA	19	0	1	0	0	20	C	180.000	590.000
MN-AA	20	0	C	0	0	20	C		

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29.01.76

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.31C

PE DA SERRA ORIGINAIS E REPLICAS

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAC ANALISACO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	40	0	0	0	0	0	C	27003.000	27091.000
LONGITUDE	40	0	0	0	0	0	C	140914.000	140954.000
UTM-AEC	40	0	0	0	0	0	C	482025.000	484250.000
UTM-CRC	40	0	0	0	0	0	C	5168175.000	5169025.000
M. C.	40	0	0	0	0	0	C	39.000	39.000
FE-S	40	0	0	0	0	0	C	1.500	10.000
MG-S	40	0	0	0	0	0	C	0.070	0.200
CA-S	40	0	0	0	0	0	C	0.200	1.000
TI-S	9	0	21	0	0	0	C	0.700	1.000
MN-S	36	0	4	0	0	0	C	700.000	5000.000
B-S	40	0	0	0	0	0	C	10.000	150.000
BA-S	18	0	22	0	0	0	C	3000.000	5000.000
BE-S	1	13	0	0	26	0	C	1.500	1.500
CU-S	28	2	0	0	0	0	C	5.000	15.000
CR-S	40	0	0	0	0	0	C	10.000	150.000
CU-S	40	0	0	0	0	0	C	5.000	30.000
LA-S	34	5	0	0	1	0	C	20.000	200.000
MC-S	6	17	0	0	17	0	C	5.000	5.000
NE-S	40	0	0	0	0	0	C	10.000	70.000
NI-S	21	19	0	0	0	0	C	5.000	20.000
PI-S	40	0	0	0	0	0	C	15.000	50.000
SC-S	1	3	0	0	0	36	C	5.000	5.000
SR-S	39	1	0	0	0	0	C	100.000	200.000
V-S	40	0	0	0	0	0	C	30.000	150.000
Y-S	40	0	0	0	0	0	C	10.000	700.000
ZN-S	0	0	0	0	19	21	C		
ZR-S	3	0	37	0	0	0	C	1000.000	1000.000
CU-AA	26	14	0	0	0	0	C	5.000	5.000
PE-AA	40	0	0	0	0	0	C	5.000	20.000
ZA-AA	40	0	0	0	0	0	C	5.000	25.000
FE-AA	20	0	0	0	0	20	C	2400.000	6700.000
MN-AA	20	0	0	0	0	20	C	120.000	270.000

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

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PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAD DETETADO	NAC ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	100	0	C	0	0	0	C	26018.000	27091.000
LONGITUDE	100	0	C	0	0	0	C	140876.000	141596.000
UTM-ABC	100	0	0	0	0	0	0	451050.000	485400.000
UTM-GRD	100	0	C	0	0	0	C	9168175.000	9201100.000
M. C.	100	0	0	0	0	0	0	39.000	39.000
FF-S	100	0	C	0	0	0	C	0.200	3.000
MG-S	100	0	0	0	0	0	C	0.020	1.000
CA-S	96	4	C	0	0	0	C	0.070	2.000
TI-S	96	0	4	0	0	0	C	0.070	1.000
MN-S	100	0	C	0	0	0	C	70.000	1500.000
B-S	86	6	C	0	8	0	C	10.000	150.000
BA-S	97	0	3	0	0	0	C	200.000	5000.000
BE-S	7	93	0	0	0	0	C	1.000	3.000
CO-S	85	15	0	0	0	0	C	5.000	10.000
CR-S	23	77	0	0	0	0	C	10.000	70.000
CU-S	69	31	C	0	0	0	C	5.000	50.000
LA-S	100	0	C	0	0	0	C	20.000	50.000
MC-S	9	25	6	0	66	0	0	5.000	10.000
NE-S	57	43	C	0	0	0	C	10.000	70.000
NI-S	32	68	0	0	0	0	C	5.000	30.000
PE-S	37	38	C	0	25	0	0	10.000	50.000
SC-S	12	8	0	0	79	1	C	5.000	15.000
SR-S	6	5	C	0	89	0	C	100.000	200.000
V-S	100	0	C	0	0	0	C	15.000	70.000
Y-S	15	6	0	0	79	0	C	10.000	30.000
ZN-S	0	0	0	0	100	0	C		
ZR-S	93	0	7	0	0	0	0	100.000	1000.000
CU-AA	40	60	C	0	0	0	C	5.000	25.000
PE-AA	84	3	C	0	0	13	C	5.000	10.000
ZN-AA	100	0	C	0	0	0	C	5.000	75.000
FE-AA	100	0	0	0	0	0	C	550.000	19000.000
MN-AA	100	0	0	0	0	0	C	20.000	340.000

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PROJETO - SANTANA

CENTRO DE CLSTO - 1523.31C

FLNDAC JUZANTE

PARAMETRO	VALPRES	INFERIOR	SUPERIOR	TRACOS	NAO	NAC	ANALISES	VALCP	VALCP
ANALITICO	DEFINICOS	LIM. SENS.	LIM. SENS.		DETETADO	ANALISADO	CUALITATIVAS	MINIMO	MAXIMO
LATITUDE	26	0	0	0	0	0	C	26018.000	26043.000
LONGITUDE	26	0	C	0	0	0	C	141937.000	141992.000
UTM-ABC	26	C	0	0	0	0	C	451175.000	452850.000
UTM-CFC	26	0	C	0	0	0	0	9200325.000	9201100.000
M. C.	26	0	C	0	0	0	C	35.000	39.000
FE-S	26	0	0	0	0	0	C	1.500	3.000
MG-S	26	0	C	0	0	0	C	0.100	0.700
CA-S	26	0	C	0	0	0	C	0.100	1.000
TI-S	19	0	7	0	0	0	C	0.500	1.000
MN-S	26	0	0	0	0	0	0	500.000	1500.000
B-S	26	0	C	0	0	0	0	20.000	150.000
BA-S	26	0	0	0	0	0	C	1000.000	3000.000
BF-S	4	20	0	0	2	0	C	1.000	2.000
CC-S	26	0	C	0	0	0	C	5.000	7.000
CF-S	26	0	C	0	0	0	C	15.000	100.000
CU-S	26	0	0	0	0	0	C	5.000	20.000
LA-S	26	0	C	0	0	0	0	20.000	300.000
MO-S	0	2	C	0	24	0	0		
NE-S	26	C	C	0	0	0	0	10.000	50.000
NI-S	26	0	0	0	0	0	0	5.000	30.000
PI-S	26	0	C	0	0	0	C	10.000	50.000
PB-S	26	0	C	0	0	25	C	5.000	5.000
SC-S	1	0	C	0	0	0	C	100.000	150.000
SR-S	21	5	C	0	0	0	0	50.000	70.000
V-S	26	0	0	0	0	0	0	15.000	150.000
Y-S	26	0	0	0	0	0	0		
ZN-S	0	1	C	0	13	12	C		
ZR-S	1	0	25	0	0	C	C	1000.000	1000.000
CU-AA	26	0	0	0	0	0	C	5.000	10.000
PE-AA	26	0	C	0	0	0	C	10.000	20.000
ZN-AA	26	C	0	0	0	0	C	15.000	40.000
FE-AA	13	0	0	0	0	13	C	3600.000	8800.000
MN-AA	13	0	0	0	0	13	0	140.000	290.000

CORRENTINHO JULZANTE

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	26	0	0	0	0	0	0	26354.000	26431.000
LONGITUD	26	0	0	0	0	0	0	141666.000	141710.000
UTM-ABC	26	0	0	0	0	0	0	459825.000	460525.000
UTM-CRC	26	0	0	0	0	0	0	5188425.000	5189575.000
M. C.	26	0	0	0	0	0	0	39.000	39.000
FE-S %	26	0	0	0	0	0	0	1.000	10.000
MG-S %	26	0	0	0	0	0	0	0.070	1.500
CA-S %	26	0	0	0	0	0	0	0.150	2.000
TI-S %	14	0	12	0	0	0	0	0.700	1.000
MN-S	25	0	1	0	0	0	0	300.000	5000.000
B-S	26	0	0	0	0	0	0	20.000	150.000
BA-S	26	0	0	0	0	0	0	700.000	3000.000
BE-S	2	17	0	0	0	7	0	1.000	1.500
CO-S	24	2	0	0	0	0	0	5.000	20.000
CR-S	26	0	0	0	0	0	0	10.000	200.000
CU-S	26	0	0	0	0	0	0	5.000	100.000
LA-S	23	3	0	0	0	0	0	20.000	150.000
MO-S	2	6	0	0	16	0	0	5.000	7.000
NR-S	26	0	0	0	0	0	0	10.000	50.000
NI-S	26	0	0	0	0	0	0	5.000	70.000
PI-S	26	0	0	0	0	0	0	10.000	70.000
PR-S	26	0	0	0	0	20	0	5.000	20.000
SC-S	2	4	0	0	0	0	0	100.000	150.000
SR-S	21	5	0	0	0	0	0	30.000	150.000
V-S	26	0	0	0	0	0	0	10.000	200.000
Y-S	26	0	0	0	0	0	0	200.000	200.000
ZK-S	1	4	0	0	11	10	0	500.000	1000.000
ZR-S	6	0	2	0	0	0	0	5.000	25.000
CU-AA	24	2	0	0	0	0	0	5.000	25.000
PE-AA	26	0	0	0	0	0	0	5.000	60.000
ZK-AA	26	0	0	0	0	0	0	2500.000	9800.000
FE-AA	13	0	0	0	0	0	0	50.000	680.000
MN-AA	13	0	0	0	0	0	0	50.000	680.000

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.31c

CAMELEIRA JUZANTE

PARÂMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	26	0	0	0	0	0	0	26562.000	26610.000
LONGITUDE	26	0	C	0	0	0	C	141213.000	141233.000
UTM-ABC	26	0	C	0	0	0	0	474475.000	475075.000
UTM-ORC	26	C	0	0	0	0	C	5182950.000	5184425.000
M.C.	26	0	C	0	0	0	0	39.000	39.000
FE-S *	26	0	0	0	0	0	C	1.000	5.000
MG-S *	26	0	C	0	0	0	0	0.100	1.500
CA-S *	26	0	C	0	0	0	C	0.070	3.000
TI-S *	13	0	13	0	0	0	0	0.700	1.000
MN-S	26	0	C	0	0	0	C	500.000	1500.000
B-S	26	0	C	0	0	0	C	15.000	100.000
BA-S	26	0	0	0	0	0	C	700.000	5000.000
BE-S	6	11	C	0	9	0	0	1.000	1.500
CO-S	26	1	0	0	0	0	0	5.000	10.000
CR-S	26	0	C	0	0	0	C	10.000	150.000
CU-S	26	0	C	0	0	0	C	5.000	100.000
LA-S	24	2	C	0	0	0	C	5.000	100.000
MO-S	4	12	0	0	10	0	C	20.000	200.000
NE-S	26	0	0	0	0	0	0	5.000	7.000
NI-S	25	1	0	0	0	0	0	10.000	50.000
PE-S	26	C	C	0	0	0	0	10.000	50.000
SC-S	5	2	C	0	0	15	C	7.000	10.000
SR-S	23	3	C	0	0	0	C	100.000	150.000
V-S	26	0	C	0	0	0	C	50.000	100.000
Y-S	26	0	0	0	0	0	0	10.000	200.000
ZN-S	2	4	0	0	10	10	C	200.000	200.000
ZR-S	7	0	15	0	0	0	0	700.000	1000.000
CU-AA	20	6	0	0	0	0	C	5.000	20.000
PE-AA	26	0	C	0	0	0	0	5.000	30.000
ZN-AA	26	0	C	0	0	0	0	10.000	85.000
FE-AA	13	0	C	0	0	13	0	2000.000	13000.000
MN-AA	13	0	0	0	0	13	0	65.000	600.000



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CONTAGEM DE MATRIZ PRESTA

29.01.76

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PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

CARRANDELO ULZANTE

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACOS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALOR MINIMO	VALOR MAXIMO
LATITUDE	26	C	C	0	0	0	C	26533.000	26580.000
LONGITUDE	26	0	C	0	0	0	C	140876.000	140915.000
UTM-ABC	26	C	C	0	0	0	C	484200.000	485400.000
UTM-GRC	26	0	C	0	0	0	C	5183850.000	5185300.000
M.C.	26	0	C	0	0	0	C	39.000	39.000
FF-S %	26	0	C	0	0	0	C	1.500	7.000
MG-S %	26	0	C	0	0	0	C	0.300	1.500
CA-S %	26	0	C	0	0	0	C	1.000	5.000
TI-S %	15	0	11	0	0	0	C	0.500	1.000
MN-S	26	0	C	0	0	0	C	500.000	2000.000
B-S	26	0	C	0	0	0	C	10.000	100.000
BA-S	23	0	3	0	0	0	C	2000.000	5000.000
BF-S	15	11	C	0	0	0	C	1.000	3.000
CO-S	26	0	C	0	0	0	C	5.000	20.000
CR-S	26	0	C	0	0	0	C	20.000	200.000
CU-S	26	0	C	0	0	0	C	15.000	50.000
LA-S	26	0	C	0	0	0	C	20.000	500.000
MO-S	16	8	C	0	2	0	C	5.000	10.000
NE-S	26	0	C	0	0	0	C	10.000	50.000
NI-S	26	0	C	0	0	0	C	15.000	100.000
PE-S	26	0	C	0	0	0	C	15.000	70.000
SC-S	12	0	C	0	0	14	C	5.000	20.000
SR-S	26	0	C	0	0	0	C	100.000	300.000
V-S	26	0	C	0	0	0	C	50.000	200.000
Y-S	26	0	C	0	0	0	C	10.000	300.000
ZN-S	9	7	C	0	3	7	C	200.000	200.000
ZR-S	12	0	14	0	0	0	C	700.000	1000.000
CU-AA	26	0	C	0	0	0	C	10.000	30.000
PE-AA	20	0	C	0	0	6	C	15.000	35.000
ZN-AA	26	0	C	0	0	0	C	30.000	120.000
FE-AA	13	0	C	0	0	13	C	6400.000	19000.000
MN-AA	13	0	C	0	0	13	C	180.000	410.000

CPRM CONTAGEM DE MATRIZ PRESTA

29.01.76 FLA. 1

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PRCJETO - SANTANA

CENTRO DE CUSTO - 1523.310

PE DA SEFFA JUZANTE

PARAMETRO ANALITICO	VALORES DEFINIDOS	INFERIOR LIM. SENS.	SUPERIOR LIM. SENS.	TRACCS	NAO DETETADO	NAO ANALISADO	ANALISES QUALITATIVAS	VALCR MINIMO	VALCR MAXIMO
LATITUDE	26	0	C	0	0	0	C	27068.000	27091.000
LONGITUDE	26	0	C	0	0	0	C	140914.000	140943.000
UTM-ABC	26	C	C	0	0	0	C	483250.000	484250.000
UTM-CRC	26	0	C	0	0	0	C	9168175.000	9168875.000
M.C.	26	0	C	0	0	0	C	39.000	39.000
FE-S %	26	0	C	0	0	0	C	1.500	7.000
MG-S %	26	0	C	0	0	0	C	0.070	0.300
CA-S %	26	0	0	0	0	0	C	0.200	0.700
TI-S %	5	0	21	0	0	0	C	1.000	1.000
MN-S	23	0	3	0	0	0	C	700.000	500.000
B-S	26	0	C	0	0	0	C	10.000	150.000
BA-S	11	0	15	0	0	0	C	3000.000	5000.000
BE-S	1	8	C	0	17	0	C	1.500	1.500
CC-S	25	1	C	0	0	0	C	5.000	10.000
CR-S	26	0	C	0	0	0	C	10.000	150.000
CL-S	26	0	C	0	0	0	C	5.000	20.000
LA-S	22	3	C	0	1	0	C	20.000	150.000
MO-S	3	12	C	0	11	0	C	5.000	5.000
NE-S	26	C	C	0	0	0	C	20.000	70.000
NI-S	13	13	C	0	0	0	C	5.000	20.000
PF-S	26	0	C	0	0	0	C	15.000	30.000
SC-S	0	2	C	0	0	24	C	100.000	150.000
SF-S	25	1	C	0	0	0	C	30.000	150.000
V-S	26	0	C	0	0	0	C	30.000	150.000
Y-S	26	0	0	0	0	0	C	10.000	700.000
ZN-S	0	0	C	0	12	14	C	1000.000	1000.000
ZR-S	2	0	24	0	0	0	C	5.000	5.000
CU-AA	20	6	C	0	0	0	C	5.000	20.000
PB-AA	26	0	C	0	0	0	C	5.000	25.000
ZN-AA	26	0	0	0	0	0	C	5.000	25.000
FE-AA	13	0	0	0	0	13	C	2900.000	6700.000
MN-AA	13	0	0	0	0	13	C	120.000	270.000

3 - SUMÁRIO DOS ESTIMADORES DAS AMOSTRAS DE  
SEDIMENTO DE CORRENTE

## REPLICAS DE CENFC E ANALITICAS

## SUMARIO DCS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEDIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECAO
FE-S %	LOG-NORMAL	1.000	10.000	3.235	1.673	0.551	100 : 100
MG-S %	LOG-NORMAL	0.070	2.000	0.310	2.367	1.049	100 : 100
CA-S %	LOG-NORMAL	0.070	5.000	0.558	2.653	1.415	100 : 100
TI-S %	LOG-NORMAL	0.700	1.000	0.964	1.119	0.109	49 : 100
MN-S	LOG-NORMAL	300.000	5000.000	1089.428	1.816	0.654	100 : 100
B-S	LOG-NORMAL	10.000	150.000	49.474	1.805	0.649	100 : 100
BA-S	LOG-NORMAL	700.000	5000.000	1875.685	1.638	0.525	86 : 100
BE-S	LOG-NORMAL	1.000	5.000	1.522	1.918	0.436	29 : 100
CO-S	LOG-NORMAL	5.000	20.000	6.658	1.429	0.368	98 : 100
CR-S	LOG-NORMAL	10.000	500.000	30.603	2.234	0.953	100 : 100
CU-S	LOG-NORMAL	5.000	50.000	12.855	2.006	0.750	58 : 100
LA-S	LOG-NORMAL	20.000	500.000	37.748	2.050	0.821	86 : 100
MO-S	LOG-NORMAL	5.000	15.000	5.548	1.244	0.302	24 : 100
NB-S	LOG-NORMAL	10.000	70.000	24.854	1.630	0.519	100 : 100
NI-S	LOG-NORMAL	5.000	150.000	15.588	2.252	0.967	82 : 100
PB-S	LOG-NORMAL	10.000	70.000	23.400	1.932	0.447	100 : 100
SC-S	LOG-NORMAL	5.000	30.000	12.255	1.745	0.605	18 : 100
SR-S	LOG-NORMAL	100.000	300.000	120.478	1.377	0.329	86 : 100
V-S	LOG-NORMAL	30.000	200.000	73.378	1.274	0.326	100 : 100
Y-S	LOG-NORMAL	10.000	500.000	37.623	2.230	0.950	100 : 100
ZR-S	LOG-NORMAL	200.000	1000.000	609.325	1.463	0.355	21 : 100
CU-AA	LOG-NORMAL	5.000	35.000	7.612	1.863	0.687	97 : 100
PB-AA	LOG-NORMAL	5.000	35.000	12.992	1.652	0.535	100 : 100
ZN-AA	LOG-NORMAL	5.000	130.000	22.865	2.141	0.886	100 : 100

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS; ENCLANTE QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DCS VALORES ANALISADOS QUIMICAMENTE PARA DETERMINADA VARIABEL.

## AMOSTRAS ORIGINAIS MENOR QUE CIENTA MESH

## SUMARIO CCS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEDIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECAO
FE-S %	LOG-NORMAL	1.000	10.000	3.382	1.654	C.566	100 : 100
MG-S %	LOG-NORMAL	0.070	1.500	0.350	2.217	0.541	100 : 100
CA-S %	LOG-NORMAL	0.070	5.000	0.635	2.664	1.265	100 : 100
TI-S %	LOG-NORMAL	0.500	1.000	0.503	1.222	0.202	52 : 100
MN-S	LOG-NORMAL	500.000	5000.000	1196.324	1.635	0.523	95 : 100
E-S	LOG-NORMAL	10.000	200.000	62.126	1.784	C.631	100 : 100
BA-S	LOG-NORMAL	700.000	5000.000	2387.836	1.565	C.472	88 : 100
BE-S	LOG-NORMAL	1.000	2.000	1.345	1.262	C.318	17 : 100
CO-S	LOG-NORMAL	5.000	15.000	6.541	1.406	C.351	92 : 100
CR-S	LOG-NORMAL	10.000	200.000	37.157	2.095	C.856	100 : 100
CU-S	LOG-NORMAL	5.000	100.000	14.438	2.302	1.002	100 : 100
LA-S	LOG-NORMAL	20.000	300.000	32.450	2.054	C.824	98 : 100
MO-S	LOG-NORMAL	5.000	15.000	6.456	1.426	C.367	16 : 100
NB-S	LOG-NORMAL	10.000	70.000	23.622	1.665	C.548	100 : 100
NI-S	LOG-NORMAL	5.000	100.000	16.542	2.092	C.851	97 : 100
PB-S	LOG-NORMAL	10.000	70.000	26.262	1.512	C.432	100 : 100
SC-S	LOG-NORMAL	5.000	30.000	11.492	1.798	C.641	17 : 100
SR-S	LOG-NORMAL	100.000	300.000	117.866	1.249	C.306	55 : 100
V-S	LOG-NORMAL	30.000	200.000	65.554	1.465	C.397	100 : 100
Y-S	LOG-NORMAL	10.000	700.000	35.210	2.296	C.958	100 : 100
ZN-S	LOG-NORMAL	200.000	500.000	215.151	1.336	C.256	10 : 100
ZR-S	LOG-NORMAL	500.000	1000.000	664.102	1.223	C.204	23 : 100
CU-AA	LOG-NORMAL	5.000	35.000	8.425	1.851	C.707	76 : 100
PE-AA	LOG-NORMAL	5.000	35.000	12.155	1.618	C.510	92 : 100
ZN-AA	LOG-NORMAL	5.000	130.000	21.566	2.238	C.956	100 : 100
FE-AA	LOG-NORMAL	2400.000	15000.000	5551.156	1.642	C.528	99 : 100
MN-AA	LOG-NORMAL	65.000	850.000	207.771	1.746	C.603	100 : 100

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIO CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUANTITATIVAMENTE PARA DETERMINACAO VARIÁVEL.

ORIGINAIS MAIOR CLE CITENTA MES

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECAO
FE-S %	LCG-NORMAL	0.200	3.000	0.691	1.750	0.607	100 : 100
FG-S %	LOG-NORMAL	0.020	1.000	0.075	2.510	1.154	100 : 100
CA-S %	LCG-NORMAL	0.050	2.000	0.203	2.708	1.303	56 : 100
TI-S %	LCG-NORMAL	0.070	1.000	0.319	2.170	0.907	56 : 100
MN-S	LOG-NORMAL	70.000	1500.000	311.778	1.803	0.644	100 : 100
E-S	LOG-NORMAL	10.000	150.000	22.483	2.072	0.837	86 : 100
EA-S	LCG-NORMAL	200.000	5000.000	982.100	1.791	0.636	97 : 100
CO-S	LCG-NORMAL	5.000	10.000	5.345	1.157	0.147	85 : 100
CR-S	LOG-NORMAL	10.000	70.000	17.052	1.846	0.675	23 : 100
CU-S	LOG-NORMAL	5.000	50.000	9.588	1.755	0.610	69 : 100
LA-S	LOG-NORMAL	20.000	50.000	25.875	1.245	0.222	100 : 100
NE-S	LOG-NORMAL	10.000	70.000	14.024	1.607	0.503	57 : 100
NI-S	LCG-NORMAL	5.000	30.000	10.607	1.871	0.693	32 : 100
PE-S	LOG-NORMAL	10.000	50.000	15.901	1.609	0.501	37 : 100
SC-S	LCG-NORMAL	5.000	15.000	7.302	1.470	0.400	12 : 100
V-S	LCG-NORMAL	15.000	70.000	28.666	1.461	0.393	100 : 100
Y-S	LCG-NORMAL	10.000	30.000	13.404	1.586	0.487	15 : 100
ZR-S	LCG-NORMAL	100.000	1000.000	201.440	1.924	0.731	93 : 100
CU-AA	LCG-NORMAL	5.000	25.000	6.654	1.614	0.508	40 : 100
FE-AA	LCG-NORMAL	5.000	10.000	5.430	1.253	0.229	84 : 100
ZN-AA	LCG-NORMAL	5.000	75.000	8.563	2.123	0.873	100 : 100
FE-AA	LOG-NORMAL	950.000	19000.000	2461.760	1.732	0.593	100 : 100
MN-AA	LOG-NORMAL	20.000	340.000	90.881	1.989	0.777	100 : 100

SUPONDO-SE DISTRIBUICAO LCG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAL DE DETECAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUIMICAMENTE PARA DETERMINAR A VARIAVEL.

AMOSTRAS ORIGINAIS E REPLICAS MENOR QUE OITENTA MESF

## SUMARIO DAS ESTIMADORAS

ELEMENTO	DISTRIBUICAO SUPPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COCFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.000	10.000	3.310	1.682	C.557	200 : 200
MG-S %	LOG-NORMAL	0.070	2.000	0.325	2.253	C.956	200 : 200
CA-S %	LOG-NORMAL	0.070	5.000	0.618	2.753	1.337	200 : 200
TI-S %	LOG-NORMAL	0.500	1.000	0.922	1.180	C.166	101 : 200
MN-S	LOG-NORMAL	300.000	5000.000	1140.256	1.731	C.593	155 : 200
P-S	LOG-NORMAL	10.000	200.000	55.441	1.814	C.652	200 : 200
BA-S	LOG-NORMAL	700.000	5000.000	2115.262	1.624	C.515	174 : 200
BE-S	LOG-NORMAL	1.000	5.000	1.456	1.465	C.356	46 : 200
CO-S	LOG-NORMAL	5.000	20.000	6.622	1.417	C.359	190 : 200
CR-S	LOG-NORMAL	10.000	500.000	33.721	2.176	C.911	200 : 200
CU-S	LOG-NORMAL	5.000	100.000	13.632	2.158	C.858	158 : 200
LA-S	LOG-NORMAL	20.000	500.000	34.827	2.056	C.826	184 : 200
MG-S	LOG-NORMAL	5.000	15.000	6.161	1.376	C.328	40 : 200
NB-S	LOG-NORMAL	10.000	70.000	24.230	1.645	C.523	200 : 200
NI-S	LOG-NORMAL	5.000	150.000	16.286	2.162	C.501	175 : 200
PB-S	LOG-NORMAL	10.000	70.000	24.750	1.526	C.442	200 : 200
SC-S	LOG-NORMAL	5.000	30.000	11.878	1.755	C.613	35 : 200
SR-S	LOG-NORMAL	100.000	300.000	119.100	1.362	C.316	181 : 200
V-S	LOG-NORMAL	30.000	200.000	71.461	1.421	C.363	200 : 200
Y-S	LOG-NORMAL	10.000	700.000	36.356	2.260	C.972	200 : 200
ZN-S	LOG-NORMAL	200.000	500.000	221.434	1.245	C.303	18 : 200
ZR-S	LOG-NORMAL	200.000	1000.000	847.588	1.250	C.307	44 : 200
CU-AA	LOG-NORMAL	5.000	35.000	7.561	1.875	C.656	173 : 200
PE-AA	LOG-NORMAL	5.000	35.000	12.586	1.636	C.523	152 : 200
ZN-AA	LOG-NORMAL	5.000	130.000	22.208	2.187	C.919	200 : 200
FE-AA	LOG-NORMAL	2400.000	15000.000	5951.156	1.642	C.528	59 : 200
MN-AA	LOG-NORMAL	65.000	850.000	207.771	1.746	C.603	100 : 200

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENCLANTE QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUINICAMENTE PARA DETERMINADA VARIABEL.

FUNDAC ORIGINAIS E REPLICAS

SUMARIO DOS ESTIMADORES

ELEMENTO.	DISTRIBUICAC SUPCSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.000	5.000	2.229	1.335	C.258	40 : 40
MG-S %	LOG-NORMAL	0.100	0.700	0.311	1.582	C.484	40 : 40
CA-S %	LOG-NORMAL	0.100	1.000	0.474	1.548	C.459	40 : 40
TI-S %	LOG-NORMAL	0.500	1.000	0.927	1.185	C.171	27 : 40
MN-S	LOG-NORMAL	500.000	2000.000	945.227	1.385	C.335	40 : 40
E-S	LOG-NORMAL	20.000	150.000	60.150	1.837	C.665	40 : 40
BA-S	LOG-NORMAL	1000.000	5000.000	1580.556	1.438	C.376	40 : 40
CO-S	LOG-NORMAL	5.000	7.000	5.135	1.096	C.052	38 : 40
CR-S	LOG-NORMAL	10.000	100.000	20.926	1.548	C.459	40 : 40
CU-S	LOG-NORMAL	5.000	20.000	7.960	1.408	C.353	40 : 40
LA-S	LOG-NORMAL	20.000	300.000	36.889	2.272	C.980	40 : 40
NB-S	LOG-NORMAL	10.000	50.000	18.312	1.492	C.417	40 : 40
NI-S	LOG-NORMAL	5.000	30.000	13.545	1.517	C.435	40 : 40
FE-S	LOG-NORMAL	10.000	50.000	20.618	1.300	C.267	40 : 40
SP-S	LOG-NORMAL	100.000	150.000	105.371	1.148	C.129	31 : 40
V-S	LOG-NORMAL	30.000	70.000	65.710	1.185	C.171	40 : 40
Y-S	LOG-NORMAL	15.000	150.000	31.614	1.873	C.695	40 : 40
CU-AA	LOG-NORMAL	5.000	10.000	6.373	1.398	C.344	40 : 40
FB-AA	LOG-NORMAL	10.000	25.000	14.147	1.299	C.267	40 : 40
ZN-AA	LOG-NORMAL	15.000	40.000	23.213	1.326	C.288	40 : 40
FE-AA	LOG-NORMAL	3000.000	8800.000	5256.957	1.336	C.296	20 : 40
MA-AA	LOG-NORMAL	110.000	290.000	185.211	1.307	C.273	20 : 40

SUPONDO-SE DISTRIBUICAC LOG-NORMAL, A MEIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFEFE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS CLINICAMENTE PARA DETERMINACA VARIABEL.



CORRENTINHO ORIGINALS E REPLICAS

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LCG-NORMAL	1.000	10.000	3.150	1.807	0.647	40 : 40
MG-S %	LCG-NORMAL	0.070	1.500	0.261	1.884	0.703	40 : 40
CA-S %	LCG-NORMAL	0.150	2.000	0.617	2.053	0.823	40 : 40
TI-S %	LCG-NORMAL	0.700	1.000	0.942	1.147	0.137	16 : 40
MN-S	LCG-NORMAL	300.000	5000.000	1248.898	1.938	0.741	39 : 40
E-S	LCG-NORMAL	20.000	200.000	68.115	1.865	0.689	40 : 40
EA-S	LOG-NORMAL	700.000	3000.000	1679.324	1.522	0.439	40 : 40
CO-S	LOG-NORMAL	5.000	20.000	6.428	1.389	0.327	38 : 40
CR-S	LCG-NORMAL	10.000	500.000	37.171	2.133	0.880	40 : 40
CU-S	LOG-NORMAL	5.000	100.000	17.129	2.101	0.858	40 : 40
LA-S	LCG-NORMAL	20.000	150.000	29.298	1.812	0.651	35 : 40
NE-S	LCG-NORMAL	10.000	50.000	20.552	1.561	0.469	40 : 40
NI-S	LCG-NORMAL	5.000	70.000	13.908	1.792	0.636	40 : 40
FR-S	LOG-NORMAL	10.000	70.000	19.154	1.439	0.376	40 : 40
SR-S	LCG-NORMAL	100.000	150.000	103.642	1.124	0.117	34 : 40
V-S	LOG-NORMAL	30.000	150.000	61.558	1.508	0.429	40 : 40
Y-S	LCG-NORMAL	10.000	200.000	32.137	2.251	0.965	40 : 40
CU-AA	LCG-NORMAL	5.000	25.000	6.249	1.542	0.455	37 : 40
FE-AA	LCG-NORMAL	5.000	25.000	9.534	1.648	0.533	40 : 40
ZN-AA	LCG-NORMAL	5.000	60.000	16.834	1.778	0.626	40 : 40
FE-AA	LCG-NORMAL	2800.000	9800.000	5092.684	1.464	0.395	20 : 40
MN-AA	LCG-NORMAL	90.000	850.000	284.103	2.015	0.756	20 : 40

SUPONDO-SE DISTRIBUICAO LCG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUANTIFICAMENTE PARA DETERMINAR A VARIAVEL.

CAPELEIRA ORIGINAIS E REPLICAS

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.000	5.000	3.052	1.494	0.418	40 : 40
MG-S %	LOG-NORMAL	0.100	1.500	0.330	1.852	0.880	40 : 40
CA-S %	LOG-NORMAL	0.070	3.000	0.234	2.971	1.907	40 : 40
TI-S %	LOG-NORMAL	0.500	1.000	0.907	1.223	0.203	18 : 40
MN-S	LOG-NORMAL	500.000	2000.000	952.461	1.448	0.383	40 : 40
B-S	LOG-NORMAL	10.000	100.000	42.536	1.683	0.558	40 : 40
BA-S	LOG-NORMAL	700.000	5000.000	1681.226	1.646	0.531	40 : 40
CO-S	LOG-NORMAL	5.000	10.000	6.041	1.269	0.242	36 : 40
CR-S	LOG-NORMAL	10.000	150.000	30.954	1.889	0.706	40 : 40
CU-S	LOG-NORMAL	5.000	100.000	11.692	2.272	0.981	38 : 40
LA-S	LOG-NORMAL	20.000	200.000	28.239	1.775	0.627	35 : 40
NB-S	LOG-NORMAL	10.000	50.000	25.858	1.596	0.494	40 : 40
NI-S	LOG-NORMAL	5.000	50.000	12.604	2.012	0.794	38 : 40
PE-S	LOG-NORMAL	10.000	50.000	24.377	1.421	0.362	40 : 40
SR-S	LOG-NORMAL	100.000	150.000	101.102	1.069	0.067	37 : 40
V-S	LOG-NORMAL	50.000	100.000	69.699	1.257	0.221	40 : 40
Y-S	LOG-NORMAL	10.000	200.000	28.523	2.029	0.806	40 : 40
CU-AA	LOG-NORMAL	5.000	20.000	6.623	1.702	0.572	30 : 40
PE-AA	LOG-NORMAL	5.000	30.000	11.075	1.564	0.471	40 : 40
ZN-AA	LOG-NORMAL	10.000	85.000	18.800	1.940	0.742	40 : 40
FE-AA	LOG-NORMAL	2000.000	13000.000	6433.832	1.510	0.430	20 : 40
MN-AA	LOG-NORMAL	65.000	600.000	144.831	1.869	0.692	20 : 40

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUIMICAMENTE PARA DETERMINACAO VARIAVEL.

CARRANCLCC ORIGINALS E REPLICAS

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COCFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.500	10.000	4.944	1.465	C.356	40 : 40
MG-S %	LOG-NORMAL	0.300	2.000	1.024	1.585	C.469	40 : 40
CA-S %	LOG-NORMAL	1.000	5.000	2.428	1.621	C.520	40 : 40
TI-S %	LOG-NORMAL	0.500	1.000	0.930	1.166	C.174	25 : 40
MN-S	LOG-NORMAL	500.000	2000.000	1007.767	1.491	C.416	40 : 40
E-S	LOG-NORMAL	10.000	100.000	51.936	1.591	C.491	40 : 40
EA-S	LOG-NORMAL	1500.000	5000.000	2871.282	1.405	C.350	36 : 40
EE-S	LOG-NORMAL	1.000	5.000	1.625	1.505	C.427	25 : 40
CO-S	LOG-NORMAL	5.000	20.000	10.081	1.363	C.317	40 : 40
CR-S	LOG-NORMAL	20.000	200.000	74.198	1.633	C.666	40 : 40
CU-S	LOG-NORMAL	15.000	50.000	31.556	1.445	C.381	40 : 40
LA-S	LOG-NORMAL	20.000	500.000	56.196	2.024	C.803	40 : 40
MC-S	LOG-NORMAL	5.000	15.000	6.578	1.425	C.266	28 : 40
NE-S	LOG-NORMAL	10.000	50.000	22.280	1.400	C.346	40 : 40
NI-S	LOG-NORMAL	15.000	150.000	42.188	1.742	C.600	40 : 40
PE-S	LOG-NORMAL	15.000	70.000	39.542	1.527	C.443	40 : 40
SC-S	LOG-NORMAL	5.000	30.000	14.433	1.631	C.520	25 : 40
SR-S	LOG-NORMAL	100.000	300.000	176.766	1.459	C.352	40 : 40
V-S	LOG-NORMAL	50.000	200.000	102.142	1.361	C.331	40 : 40
Y-S	LOG-NORMAL	10.000	300.000	42.128	1.910	C.721	40 : 40
ZN-S	LOG-NORMAL	200.000	500.000	213.527	1.277	C.245	14 : 40
ZR-S	LOG-NORMAL	200.000	1000.000	790.750	1.421	C.363	25 : 40
CU-AA	LOG-NORMAL	10.000	35.000	19.323	1.500	C.423	40 : 40
PB-AA	LOG-NORMAL	15.000	35.000	23.718	1.273	C.245	32 : 40
ZN-AA	LOG-NORMAL	30.000	130.000	68.607	1.548	C.459	40 : 40
FE-AA	LOG-NORMAL	4400.000	15000.000	11802.422	1.345	C.306	19 : 40
MN-AA	LOG-NORMAL	180.000	590.000	326.799	1.297	C.265	20 : 40

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENCLANTE QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAL DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS CLINICAMENTE PARA DETERMINACAO VARIABEL.

PE DA SERPA ORIGINALS E REPLICAS

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.500	10.000	3.748	1.711	0.578	40 : 40
MG-S %	LOG-NORMAL	0.070	0.300	0.141	1.551	0.461	40 : 40
CA-S %	LOG-NORMAL	0.200	1.000	0.542	1.412	0.356	40 : 40
MN-S	LOG-NORMAL	700.000	5000.000	1782.950	1.934	0.738	36 : 40
E-S	LOG-NORMAL	10.000	150.000	57.887	1.937	0.740	40 : 40
EA-S	LOG-NORMAL	3000.000	5000.000	3764.616	1.258	0.266	18 : 40
CC-S	LOG-NORMAL	5.000	15.000	6.157	1.319	0.283	38 : 40
CR-S	LOG-NORMAL	10.000	150.000	24.394	2.101	0.858	40 : 40
CU-S	LOG-NORMAL	5.000	30.000	9.285	1.729	0.588	40 : 40
LA-S	LOG-NORMAL	20.000	200.000	27.485	1.844	0.674	34 : 40
AB-S	LOG-NORMAL	10.000	70.000	38.518	1.639	0.526	40 : 40
NI-S	LOG-NORMAL	5.000	20.000	7.672	1.482	0.410	21 : 40
PB-S	LOG-NORMAL	15.000	50.000	24.592	1.330	0.291	40 : 40
SR-S	LOG-NORMAL	100.000	200.000	114.126	1.228	0.208	35 : 40
V-S	LOG-NORMAL	30.000	150.000	64.718	1.382	0.333	40 : 40
Y-S	LOG-NORMAL	10.000	700.000	52.316	2.544	1.486	40 : 40
PE-AA	LOG-NORMAL	5.000	20.000	10.118	1.438	0.376	40 : 40
ZN-AA	LOG-NORMAL	5.000	25.000	10.718	1.422	0.264	40 : 40
FE-AA	LOG-NORMAL	2400.000	6700.000	3798.989	1.267	0.240	20 : 40
MN-AA	LOG-NORMAL	120.000	270.000	155.468	1.214	0.156	20 : 40

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUANTITATIVAMENTE PARA DETERMINADA VARIABEL.

S E A G

PROJETO - SANTANA

CENTRO DE CUSTO - 1523.310

FLNAC JUZANTE

## SUMARIO DAS ESTIMADRES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MECIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECAO
FE-S %	LOG-NORMAL	1.500	3.000	2.182	1.236	C.214	26 : 26
MG-S %	LOG-NORMAL	0.100	0.700	0.321	1.606	C.502	26 : 26
CA-S %	LOG-NORMAL	0.100	1.000	0.454	1.613	C.506	26 : 26
TI-S %	LOG-NORMAL	0.500	1.000	0.911	1.218	C.159	19 : 26
MN-S	LOG-NORMAL	500.000	1500.000	528.647	1.328	C.250	26 : 26
E-S	LOG-NORMAL	20.000	150.000	55.452	1.851	C.675	26 : 26
EA-S	LOG-NORMAL	1000.000	3000.000	2087.407	1.342	C.301	26 : 26
CC-S	LOG-NORMAL	5.000	7.000	5.131	1.096	C.052	26 : 26
CR-S	LOG-NORMAL	15.000	100.000	22.443	1.457	C.421	26 : 26
CU-S	LOG-NORMAL	5.000	20.000	8.281	1.377	C.328	26 : 26
LA-S	LOG-NORMAL	20.000	300.000	40.173	2.502	1.148	26 : 26
NB-S	LOG-NORMAL	10.000	50.000	17.816	1.480	C.408	26 : 26
NI-S	LOG-NORMAL	5.000	30.000	14.466	1.454	C.418	26 : 26
PB-S	LOG-NORMAL	10.000	50.000	20.356	1.308	C.274	26 : 26
SR-S	LOG-NORMAL	100.000	150.000	105.563	1.156	C.146	21 : 26
V-S	LOG-NORMAL	50.000	70.000	66.469	1.132	0.124	26 : 26
Y-S	LOG-NORMAL	15.000	150.000	30.450	1.874	C.656	26 : 26
CU-AA	LOG-NORMAL	5.000	10.000	6.356	1.400	C.346	26 : 26
PH-AA	LOG-NORMAL	10.000	20.000	14.664	1.247	C.224	26 : 26
ZN-AA	LOG-NORMAL	15.000	40.000	23.833	1.337	C.256	26 : 26
FE-AA	LOG-NORMAL	3600.000	8800.000	5473.551	1.211	C.276	13 : 26
MA-AA	LOG-NORMAL	140.000	290.000	201.641	1.266	C.235	13 : 26

SUPONDO-SE DISTRIBLICAC LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENCLANTE QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECAO REFERE-SE AO NUMERO DE VALORES DEFINICCS EM RELACAO AO TOTAL DOS VALORES ANALISADCS QUINICAMENTE PARA DETERMINACA VARIABEL.

## CORRENTIA-C JULZANTE

## SUMARIO DAS ESTIMADORAS

ELEMENTO	DISTRIBUICAO SUPCSTA	VALOR MINIMO	VALOR MAXIMO	MEDIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.000	10.000	3.048	1.880	0.700	26 : 26
MG-S %	LOG-NORMAL	0.070	1.500	0.254	1.561	0.757	26 : 26
CA-S %	LOG-NORMAL	0.150	2.000	0.526	2.204	0.931	26 : 26
TI-S %	LOG-NORMAL	0.700	1.000	0.950	1.138	0.130	14 : 26
MN-S	LOG-NORMAL	300.000	5000.000	1073.250	1.863	0.688	25 : 26
E-S	LOG-NORMAL	20.000	150.000	55.263	1.775	0.624	26 : 26
EA-S	LOG-NORMAL	700.000	3000.000	1468.207	1.509	0.430	26 : 26
CC-S	LOG-NORMAL	5.000	20.000	6.378	1.434	0.372	24 : 26
CR-S	LOG-NORMAL	10.000	200.000	35.435	2.028	0.805	26 : 26
CU-S	LOG-NORMAL	5.000	100.000	14.178	2.040	0.814	26 : 26
LA-S	LOG-NORMAL	20.000	150.000	28.498	1.940	0.742	23 : 26
NE-S	LOG-NORMAL	10.000	50.000	18.830	1.628	0.518	26 : 26
NI-S	LOG-NORMAL	5.000	70.000	13.786	1.813	0.652	26 : 26
FE-S	LOG-NORMAL	10.000	70.000	18.461	1.474	0.403	26 : 26
SR-S	LOG-NORMAL	100.000	150.000	103.937	1.130	0.122	21 : 26
V-S	LOG-NORMAL	30.000	150.000	62.889	1.566	0.472	26 : 26
Y-S	LOG-NORMAL	10.000	200.000	28.939	2.418	1.087	26 : 26
CU-AA	LOG-NORMAL	5.000	25.000	6.656	1.643	0.529	24 : 26
PE-AA	LOG-NORMAL	5.000	25.000	9.869	1.724	0.587	26 : 26
ZN-AA	LOG-NORMAL	5.000	60.000	15.889	1.921	0.729	26 : 26
FE-AA	LOG-NORMAL	2500.000	9800.000	4911.441	1.455	0.368	13 : 26
MN-AA	LOG-NORMAL	90.000	680.000	242.672	2.009	0.792	13 : 26

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS; ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUANTICAMENTE PARA DETERMINADA VARIÁVEL.

CAMELEIRA JULZANTE

SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.000	5.000	3.017	1.524	C.441	26 : 26
MG-S %	LOG-NORMAL	0.100	1.500	0.354	2.005	C.789	26 : 26
CA-S %	LOG-NORMAL	0.070	3.000	0.286	3.583	2.024	26 : 26
TI-S %	LOG-NORMAL	0.700	1.000	0.921	1.169	C.157	13 : 26
MN-S	LOG-NORMAL	500.000	1500.000	973.882	1.402	C.348	26 : 26
B-S	LOG-NORMAL	15.000	100.000	41.897	1.633	C.521	26 : 26
BA-S	LOG-NORMAL	700.000	5000.000	1840.660	1.738	C.558	26 : 26
CO-S	LOG-NORMAL	5.000	10.000	6.391	1.289	C.258	25 : 26
CR-S	LOG-NORMAL	10.000	150.000	34.849	1.941	C.743	26 : 26
CU-S	LOG-NORMAL	5.000	100.000	15.350	2.348	1.036	26 : 26
LA-S	LOG-NORMAL	20.000	200.000	29.214	1.886	C.704	24 : 26
NB-S	LOG-NORMAL	10.000	50.000	22.740	1.483	C.410	26 : 26
NI-S	LOG-NORMAL	5.000	50.000	14.715	2.060	C.829	25 : 26
PB-S	LOG-NORMAL	10.000	50.000	24.374	1.443	C.380	26 : 26
SR-S	LOG-NORMAL	100.000	150.000	101.779	1.088	C.085	23 : 26
V-S	LOG-NORMAL	50.000	100.000	70.367	1.296	C.264	26 : 26
Y-S	LOG-NORMAL	10.000	200.000	30.173	2.142	C.887	26 : 26
CU-AA	LOG-NORMAL	5.000	20.000	7.623	1.837	C.669	20 : 26
PE-AA	LOG-NORMAL	5.000	30.000	11.519	1.732	C.593	26 : 26
ZN-AA	LOG-NORMAL	10.000	85.000	22.906	2.062	C.830	26 : 26
FE-AA	LOG-NORMAL	2600.000	13000.000	6034.457	1.596	C.494	13 : 26
MN-AA	LOG-NORMAL	65.000	600.000	159.591	2.060	C.828	13 : 26

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUINICAMENTE PARA DETERMINACAO DA VARIAVEL.

## CARRANLEC JLZANTE

## SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MECIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.500	7.000	4.370	1.488	0.414	26 : 26
MG-S %	LOG-NORMAL	0.300	1.500	0.878	1.631	0.520	26 : 26
CA-S %	LOG-NORMAL	1.000	5.000	2.018	1.562	0.469	26 : 26
TI-S %	LOG-NORMAL	0.500	1.000	0.932	1.216	0.197	15 : 26
MN-S	LOG-NORMAL	500.000	2000.000	1111.883	1.547	0.458	26 : 26
E-S	LOG-NORMAL	10.000	100.000	47.108	1.688	0.562	26 : 26
BA-S	LOG-NORMAL	2000.000	5000.000	2976.773	1.436	0.374	23 : 26
BE-S	LOG-NORMAL	1.000	3.000	1.499	1.529	0.445	15 : 26
CO-S	LOG-NORMAL	5.000	20.000	9.519	1.252	0.309	26 : 26
CR-S	LOG-NORMAL	20.000	200.000	58.599	1.633	0.666	26 : 26
CU-S	LOG-NORMAL	15.000	50.000	28.261	1.452	0.386	26 : 26
LA-S	LOG-NORMAL	20.000	500.000	45.946	2.102	0.858	26 : 26
MO-S	LOG-NORMAL	5.000	10.000	5.446	1.219	0.200	16 : 26
NE-S	LOG-NORMAL	10.000	50.000	23.673	1.392	0.340	26 : 26
NI-S	LOG-NORMAL	15.000	100.000	37.423	1.771	0.621	26 : 26
PE-S	LOG-NORMAL	15.000	70.000	34.866	1.561	0.468	26 : 26
SC-S	LOG-NORMAL	5.000	20.000	10.940	1.716	0.582	12 : 26
SR-S	LOG-NORMAL	100.000	300.000	150.223	1.375	0.327	26 : 26
V-S	LOG-NORMAL	50.000	200.000	105.550	1.449	0.384	26 : 26
Y-S	LOG-NORMAL	10.000	300.000	40.483	2.112	0.865	26 : 26
ZR-S	LOG-NORMAL	700.000	1000.000	514.651	1.175	0.162	12 : 26
CU-AA	LOG-NORMAL	10.000	30.000	16.968	1.460	0.408	26 : 26
PE-AA	LOG-NORMAL	15.000	35.000	21.908	1.271	0.243	20 : 26
ZN-AA	LOG-NORMAL	30.000	120.000	60.634	1.553	0.462	26 : 26
FE-AA	LOG-NORMAL	6400.000	19000.000	11021.527	1.387	0.336	13 : 26
MN-AA	LOG-NORMAL	180.000	410.000	304.669	1.269	0.242	13 : 26

SUPONDO-SE DISTRIBUICAO LOG-NORMAL, A MEDIA E OS DESVIOS CALCULACAO SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUANTITATIVAMENTE PARA DETERMINADA VARIABEL.



## PE DA SEFRA JUZANTE

## SUMARIO DOS ESTIMADORES

ELEMENTO	DISTRIBUICAO SUPOSTA	VALOR MINIMO	VALOR MAXIMO	MEDIA	DESVIO	COEFICIENTE DE VARIACAO	GRAU DE DETECCAO
FE-S %	LOG-NORMAL	1.500	7.000	3.852	1.668	0.561	26 : 26
MG-S %	LOG-NORMAL	0.070	0.300	0.138	1.543	0.455	26 : 26
CA-S %	LOG-NORMAL	0.200	0.700	0.472	1.393	0.341	26 : 26
MN-S	LOG-NORMAL	700.000	5000.000	1608.704	1.582	0.772	23 : 26
E-S	LOG-NORMAL	10.000	150.000	51.294	2.039	0.812	26 : 26
BA-S	LOG-NORMAL	3000.000	5000.000	3612.381	1.294	0.262	11 : 26
CO-S	LOG-NORMAL	5.000	10.000	6.046	1.249	0.225	25 : 26
CR-S	LOG-NORMAL	10.000	150.000	27.880	2.000	0.843	26 : 26
CU-S	LOG-NORMAL	5.000	20.000	9.505	1.610	0.505	26 : 26
LA-S	LOG-NORMAL	20.000	150.000	27.087	1.766	0.618	22 : 26
NB-S	LOG-NORMAL	20.000	70.000	39.857	1.514	0.433	26 : 26
NI-S	LOG-NORMAL	5.000	20.000	7.861	1.543	0.455	13 : 26
PB-S	LOG-NORMAL	15.000	30.000	22.262	1.270	0.243	26 : 26
SR-S	LOG-NORMAL	100.000	150.000	101.635	1.064	0.081	25 : 26
V-S	LOG-NORMAL	30.000	150.000	65.675	1.358	0.345	26 : 26
Y-S	LOG-NORMAL	10.000	700.000	57.227	3.151	1.687	26 : 26
PB-AA	LOG-NORMAL	5.000	20.000	11.278	1.232	0.292	26 : 26
ZN-AA	LOG-NORMAL	5.000	25.000	11.554	1.364	0.318	26 : 26
FE-AA	LOG-NORMAL	2500.000	6700.000	4014.384	1.264	0.238	13 : 26
MN-AA	LOG-NORMAL	120.000	270.000	157.006	1.243	0.220	13 : 26

SUPONDO-SE DISTRIBUICAC LOG-NORMAL, A MEDIA E OS DESVIOS CALCULADOS SAO GEOMETRICOS, ENQUANTO QUE NA DISTRIBUICACAO NORMAL SAO ARITMETICOS.

GRAU DE DETECCAO REFERE-SE AO NUMERO DE VALORES DEFINIDOS EM RELACAO AO TOTAL DOS VALORES ANALISADOS QUIMICAMENTE PARA DETERMINACAO VARIAVEL.