

Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
0+0.000	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+10.000	5.00	0.00	2.62	2.62	2.91	14.53	2.62	2.62	14.53	-11.91
1+0.000	5.00	0.00	0.00	0.00	1.23	20.64	2.62	2.62	35.17	-32.55
1+10.000	5.00	0.00	0.00	0.00	1.89	15.55	2.62	2.62	50.72	-48.10
2+0.000	5.00	0.00	0.00	0.00	2.96	24.06	2.62	2.62	74.78	-72.16
2+10.000	5.00	0.00	0.00	0.00	6.16	44.89	2.62	2.62	119.67	-117.05
3+0.000	5.00	0.00	0.00	0.00	8.31	72.35	2.62	2.62	192.02	-189.40
3+10.000	5.00	0.00	0.00	0.00	10.14	92.26	2.62	2.62	284.28	-281.66
4+0.000	5.00	0.00	0.00	0.00	12.05	110.94	2.62	2.62	395.21	-392.60
4+10.000	5.00	0.00	0.00	0.00	13.27	126.58	2.62	2.62	521.79	-519.17
5+0.000	5.00	0.00	0.00	0.00	13.78	135.23	2.62	2.62	657.02	-654.40
5+10.000	5.00	0.00	0.00	0.00	13.89	138.37	2.62	2.62	795.39	-792.77
6+0.000	5.00	0.00	0.00	0.00	15.23	145.64	2.62	2.62	941.03	-938.42
6+10.000	5.00	0.00	0.00	0.00	17.17	162.06	2.62	2.62	1103.09	-1100.47
7+0.000	5.00	0.00	0.00	0.00	12.61	148.93	2.62	2.62	1252.02	-1249.40
7+10.000	5.00	0.00	0.00	0.00	12.66	126.33	2.62	2.62	1378.34	-1375.72
8+0.000	5.00	0.00	0.00	0.00	12.67	126.62	2.62	2.62	1504.96	-1502.35
8+10.000	5.00	0.00	0.00	0.00	12.07	123.70	2.62	2.62	1628.66	-1626.04
9+0.000	5.00	0.00	0.00	0.00	11.47	117.73	2.62	2.62	1746.39	-1743.78
9+10.000	5.00	0.00	0.00	0.00	10.79	111.30	2.62	2.62	1857.70	-1855.08
10+0.000	5.00	0.00	0.00	0.00	10.10	104.45	2.62	2.62	1962.15	-1959.53
10+10.000	5.00	0.00	0.00	0.00	9.52	98.11	2.62	2.62	2060.25	-2057.63
11+0.000	5.00	0.00	0.00	0.00	7.45	84.84	2.62	2.62	2145.09	-2142.48
11+10.000	5.00	0.00	0.00	0.00	4.89	61.69	2.62	2.62	2206.78	-2204.16
12+0.000	5.00	0.00	0.00	0.00	3.10	39.93	2.62	2.62	2246.71	-2244.09
12+10.000	5.00	0.00	0.00	0.00	0.81	19.51	2.62	2.62	2266.22	-2263.60
13+0.000	5.00	3.73	18.64	18.64	0.00	4.03	21.25	21.25	2270.25	-2249.00
13+10.000	5.00	4.98	43.54	43.54	0.00	0.00	64.80	64.80	2270.25	-2205.46
14+0.000	5.00	5.14	50.59	50.59	0.00	0.00	115.39	115.39	2270.25	-2154.87
14+10.000	5.00	3.32	42.28	42.28	0.00	0.00	157.67	157.67	2270.25	-2112.59
15+0.000	5.00	3.27	32.96	32.96	0.00	0.00	190.63	190.63	2270.25	-2079.63
15+10.000	5.00	4.48	38.78	38.78	0.00	0.00	229.41	229.41	2270.25	-2040.85
16+0.000	5.00	5.19	48.36	48.36	0.00	0.00	277.77	277.77	2270.25	-1992.48
16+10.000	5.00	5.41	53.00	53.00	0.00	0.00	330.77	330.77	2270.25	-1939.49
17+0.000	5.00	5.29	53.47	53.47	0.00	0.00	384.23	384.23	2270.25	-1886.02
17+10.000	5.00	5.04	51.65	51.65	0.00	0.00	435.89	435.89	2270.25	-1834.37
18+0.000	5.00	3.41	42.25	42.25	0.00	0.00	478.13	478.13	2270.25	-1792.12
18+10.000	5.00	1.77	25.88	25.88	0.00	0.00	504.01	504.01	2270.25	-1766.24
19+0.000	5.00	0.51	11.40	11.40	0.00	0.00	515.41	515.41	2270.25	-1754.84
19+10.000	5.00	0.09	3.03	3.03	0.68	3.33	518.44	518.44	2273.58	-1755.14
20+0.000	5.00	0.10	1.02	1.02	0.41	5.32	519.46	519.46	2278.90	-1759.44
20+10.000	5.00	0.00	0.55	0.55	0.32	3.58	520.01	520.01	2282.48	-1762.48
21+0.000	5.00	0.00	0.00	0.00	0.75	5.35	520.01	520.01	2287.83	-1767.82
21+10.000	5.00	0.00	0.00	0.00	1.20	9.73	520.01	520.01	2297.56	-1777.55
22+0.000	5.00	0.00	0.00	0.00	3.14	21.68	520.01	520.01	2319.24	-1799.23

Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Vol. Reuso (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Reuso Acum. (m³)	Vol. Acum. Aterro (m³)	Dif. Vol. Acum. (m³)
22+10.000	5.00	0.00	0.00	0.00	4.36	37.48	520.01	520.01	2356.71	-1836.70
23+0.000	5.00	0.00	0.00	0.00	4.82	45.92	520.01	520.01	2402.63	-1882.62
23+10.000	5.00	0.00	0.00	0.00	5.56	51.90	520.01	520.01	2454.53	-1934.52
24+0.000	5.00	0.00	0.00	0.00	7.44	64.98	520.01	520.01	2519.51	-1999.50
24+10.000	5.00	0.00	0.00	0.00	8.42	79.27	520.01	520.01	2598.78	-2078.77
25+0.000	5.00	0.00	0.00	0.00	8.07	82.44	520.01	520.01	2681.23	-2161.22
25+10.000	5.00	0.00	0.00	0.00	7.21	76.42	520.01	520.01	2757.65	-2237.64
26+0.000	5.00	0.00	0.00	0.00	6.05	66.29	520.01	520.01	2823.94	-2303.93
26+10.000	5.00	0.00	0.00	0.00	5.22	56.35	520.01	520.01	2880.29	-2360.28
27+0.000	5.00	0.00	0.00	0.00	4.50	48.61	520.01	520.01	2928.90	-2408.89
27+10.000	5.00	0.00	0.00	0.00	4.51	45.06	520.01	520.01	2973.96	-2453.95
28+0.000	5.00	0.00	0.00	0.00	4.61	45.63	520.01	520.01	3019.59	-2499.58
28+10.000	5.00	0.00	0.00	0.00	5.43	50.22	520.01	520.01	3069.81	-2549.80
29+0.000	5.00	0.00	0.00	0.00	6.38	59.09	520.01	520.01	3128.90	-2608.89
29+10.000	5.00	0.00	0.00	0.00	6.43	64.10	520.01	520.01	3192.99	-2672.98
30+0.000	5.00	0.00	0.00	0.00	6.34	63.88	520.01	520.01	3256.87	-2736.86
30+10.000	5.00	0.00	0.00	0.00	6.27	63.07	520.01	520.01	3319.94	-2799.93
31+0.000	5.00	0.00	0.00	0.00	6.21	62.41	520.01	520.01	3382.35	-2862.34
31+10.000	5.00	0.00	0.00	0.00	6.56	63.86	520.01	520.01	3446.21	-2926.20
32+0.000	5.00	0.00	0.00	0.00	7.00	67.83	520.01	520.01	3514.04	-2994.03
32+10.000	5.00	0.00	0.00	0.00	5.55	62.76	520.01	520.01	3576.80	-3056.79
33+0.000	5.00	0.00	0.00	0.00	3.44	44.97	520.01	520.01	3621.77	-3101.76
33+10.000	5.00	0.00	0.00	0.00	3.45	34.48	520.01	520.01	3656.25	-3136.24
34+0.000	5.00	0.00	0.00	0.00	3.39	34.20	520.01	520.01	3690.44	-3170.43
34+10.000	5.00	0.00	0.00	0.00	4.35	38.69	520.01	520.01	3729.13	-3209.12
35+0.000	5.00	0.00	0.00	0.00	5.36	48.55	520.01	520.01	3777.68	-3257.67
35+10.000	5.00	0.00	0.00	0.00	4.93	51.46	520.01	520.01	3829.14	-3309.13
36+0.000	5.00	0.00	0.00	0.00	4.28	46.04	520.01	520.01	3875.19	-3355.18
36+10.000	5.00	0.00	0.00	0.00	2.83	35.62	520.01	520.01	3910.81	-3390.80
37+0.000	5.00	0.00	0.00	0.00	0.89	18.72	520.01	520.01	3929.53	-3409.52
37+10.000	5.00	0.08	0.41	0.41	0.08	4.83	520.41	520.41	3934.36	-3413.95
38+0.000	5.00	0.81	4.46	4.46	0.00	0.40	524.88	524.88	3934.76	-3409.88
38+10.000	5.00	1.19	10.00	10.00	0.00	0.00	534.88	534.88	3934.76	-3399.88
39+0.000	5.00	1.55	13.70	13.70	0.00	0.00	548.58	548.58	3934.76	-3386.18
39+10.000	5.00	1.20	13.77	13.77	0.00	0.00	562.35	562.35	3934.76	-3372.42
40+0.000	5.00	1.44	13.24	13.24	0.00	0.00	575.58	575.58	3934.76	-3359.18
40+10.000	5.00	1.03	12.35	12.35	0.00	0.00	587.93	587.93	3934.76	-3346.83
41+0.000	5.00	1.02	10.26	10.26	0.00	0.00	598.19	598.19	3934.76	-3336.57
41+10.000	5.00	0.70	8.64	8.64	0.00	0.00	606.82	606.82	3934.76	-3327.94
42+0.000	5.00	0.28	4.92	4.92	0.00	0.00	611.75	611.75	3934.76	-3323.01
42+10.000	5.00	0.14	2.11	2.11	0.03	0.13	613.86	613.86	3934.89	-3321.04
43+0.000	5.00	0.08	1.12	1.12	0.06	0.44	614.98	614.98	3935.33	-3320.35
43+10.000	5.00	0.24	1.61	1.61	0.00	0.32	616.59	616.59	3935.65	-3319.06
44+0.000	5.00	0.54	3.92	3.92	0.00	0.01	620.50	620.50	3935.66	-3315.16
44+10.000	5.00	1.53	10.37	10.37	0.00	0.00	630.87	630.87	3935.66	-3304.79
45+0.000	5.00	2.77	21.51	21.51	0.00	0.00	652.38	652.38	3935.66	-3283.28

Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
45+10.000	5.00	4.00	33.85	33.85	0.00	0.00	686.23	686.23	3935.66	-3249.43
46+0.000	5.00	5.29	46.42	46.42	0.00	0.00	732.66	732.66	3935.66	-3203.01
46+10.000	5.00	7.03	61.60	61.60	0.00	0.00	794.26	794.26	3935.66	-3141.41
47+0.000	5.00	8.97	80.01	80.01	0.00	0.00	874.26	874.26	3935.66	-3061.40
47+10.000	5.00	6.87	79.16	79.16	0.00	0.00	953.43	953.43	3935.66	-2982.24
48+0.000	5.00	4.70	57.82	57.82	0.00	0.00	1011.24	1011.24	3935.66	-2924.42
48+10.000	5.00	2.40	35.48	35.48	0.00	0.00	1046.73	1046.73	3935.66	-2888.94
49+0.000	5.00	0.18	12.90	12.90	0.02	0.12	1059.63	1059.63	3935.79	-2876.15
49+10.000	5.00	0.00	0.91	0.91	1.27	6.45	1060.54	1060.54	3942.23	-2881.69
50+0.000	5.00	0.00	0.00	0.00	2.78	20.22	1060.54	1060.54	3962.46	-2901.91
50+10.000	5.00	0.00	0.00	0.00	3.17	29.77	1060.54	1060.54	3992.22	-2931.68
51+0.000	5.00	0.00	0.00	0.00	3.55	33.63	1060.54	1060.54	4025.86	-2965.31
51+10.000	5.00	0.00	0.00	0.00	2.36	29.58	1060.54	1060.54	4055.44	-2994.90
52+0.000	5.00	0.00	0.00	0.00	1.08	17.21	1060.54	1060.54	4072.65	-3012.10
52+10.000	5.00	0.00	0.00	0.00	0.45	7.66	1060.54	1060.54	4080.30	-3019.76
53+0.000	5.00	0.02	0.12	0.12	0.14	2.97	1060.67	1060.67	4083.27	-3022.60
53+10.000	5.00	0.29	1.57	1.57	0.00	0.70	1062.24	1062.24	4083.96	-3021.73
54+0.000	5.00	0.15	2.21	2.21	0.01	0.07	1064.45	1064.45	4084.04	-3019.59
54+10.000	5.00	0.82	4.86	4.86	0.00	0.07	1069.31	1069.31	4084.11	-3014.80
55+0.000	5.00	1.59	12.04	12.04	0.00	0.00	1081.35	1081.35	4084.11	-3002.76
55+10.000	5.00	2.31	19.50	19.50	0.00	0.00	1100.85	1100.85	4084.11	-2983.26
56+0.000	5.00	3.24	27.76	27.76	0.00	0.00	1128.61	1128.61	4084.11	-2955.50
56+10.000	5.00	1.89	25.66	25.66	0.00	0.00	1154.27	1154.27	4084.11	-2929.84
57+0.000	5.00	0.21	10.49	10.49	0.00	0.01	1164.77	1164.77	4084.12	-2919.36
57+10.000	5.00	0.00	1.03	1.03	1.55	7.75	1165.79	1165.79	4091.87	-2926.07
58+0.000	5.00	0.00	0.00	0.00	3.60	25.75	1165.79	1165.79	4117.61	-2951.82
58+10.000	5.00	0.00	0.00	0.00	4.16	38.78	1165.79	1165.79	4156.40	-2990.60
59+0.000	5.00	0.00	0.00	0.00	4.47	43.15	1165.79	1165.79	4199.55	-3033.75
59+10.000	5.00	0.00	0.00	0.00	4.49	44.84	1165.79	1165.79	4244.39	-3078.60
60+0.000	5.00	0.00	0.00	0.00	4.40	44.49	1165.79	1165.79	4288.88	-3123.08
60+10.000	5.00	0.00	0.00	0.00	3.16	37.80	1165.79	1165.79	4326.68	-3160.88
61+0.000	5.00	0.00	0.00	0.00	1.40	22.78	1165.79	1165.79	4349.46	-3183.66
61+10.000	5.00	0.02	0.12	0.12	0.21	8.03	1165.91	1165.91	4357.49	-3191.58
62+0.000	5.00	0.82	4.23	4.23	0.00	1.03	1170.14	1170.14	4358.52	-3188.38
62+10.000	5.00	0.57	6.94	6.94	0.00	0.00	1177.08	1177.08	4358.52	-3181.44
63+0.000	5.00	0.07	3.17	3.17	0.05	0.23	1180.25	1180.25	4358.75	-3178.50
63+10.000	5.00	0.13	1.00	1.00	0.00	0.26	1181.25	1181.25	4359.01	-3177.76
64+0.000	5.00	0.27	2.02	2.02	0.00	0.04	1183.27	1183.27	4359.05	-3175.77
64+10.000	5.00	0.18	2.24	2.24	0.00	0.01	1185.51	1185.51	4359.06	-3173.55
65+0.000	5.00	0.10	1.37	1.37	0.03	0.16	1186.88	1186.88	4359.22	-3172.35
65+10.000	5.00	0.00	0.49	0.49	0.92	4.72	1187.37	1187.37	4363.95	-3176.58
66+0.000	5.00	0.00	0.00	0.00	1.30	11.06	1187.37	1187.37	4375.00	-3187.64
66+10.000	5.00	0.00	0.00	0.00	2.24	17.67	1187.37	1187.37	4392.68	-3205.31
67+0.000	5.00	0.00	0.00	0.00	2.43	23.36	1187.37	1187.37	4416.04	-3228.68
67+10.000	5.00	0.00	0.00	0.00	2.06	22.41	1187.37	1187.37	4438.46	-3251.09
68+0.000	5.00	0.00	0.00	0.00	2.10	20.80	1187.37	1187.37	4459.25	-3271.89

Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Vol. Reuso (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Reuso Acum. (m³)	Vol. Acum. Aterro (m³)	Dif. Vol. Acum. (m³)
68+10.000	5.00	0.00	0.00	0.00	1.97	20.34	1187.37	1187.37	4479.59	-3292.23
69+0.000	5.00	0.00	0.00	0.00	1.83	18.98	1187.37	1187.37	4498.57	-3311.20
69+10.000	5.00	0.00	0.00	0.00	1.89	18.59	1187.37	1187.37	4517.16	-3329.79
70+0.000	5.00	0.00	0.00	0.00	1.93	19.09	1187.37	1187.37	4536.25	-3348.88
70+10.000	5.00	0.00	0.00	0.00	1.89	19.08	1187.37	1187.37	4555.33	-3367.96
71+0.000	5.00	0.00	0.00	0.00	1.84	18.62	1187.37	1187.37	4573.94	-3386.58
71+10.000	5.00	0.00	0.00	0.00	1.49	16.66	1187.37	1187.37	4590.60	-3403.23
72+0.000	5.00	0.00	0.00	0.00	1.16	13.28	1187.37	1187.37	4603.88	-3416.52
72+10.000	5.00	0.00	0.00	0.00	0.67	9.18	1187.37	1187.37	4613.06	-3425.70
73+0.000	5.00	0.01	0.07	0.07	0.18	4.27	1187.43	1187.43	4617.33	-3429.90
73+10.000	5.00	0.05	0.32	0.32	0.09	1.36	1187.75	1187.75	4618.69	-3430.94
74+0.000	5.00	0.00	0.25	0.25	0.25	1.71	1188.00	1188.00	4620.40	-3432.40
74+10.000	5.00	0.01	0.07	0.07	0.18	2.13	1188.07	1188.07	4622.53	-3434.46
75+0.000	5.00	0.26	1.39	1.39	0.00	0.89	1189.46	1189.46	4623.42	-3433.95
75+10.000	5.00	0.33	2.98	2.98	0.00	0.00	1192.44	1192.44	4623.42	-3430.98
76+0.000	5.00	1.01	6.73	6.73	0.00	0.00	1199.17	1199.17	4623.42	-3424.26
76+10.000	5.00	1.92	14.68	14.68	0.00	0.00	1213.85	1213.85	4623.42	-3409.57
77+0.000	5.00	0.00	9.61	9.61	0.64	3.19	1223.45	1223.45	4626.61	-3403.16
77+10.000	5.00	0.00	0.00	0.00	1.03	8.34	1223.45	1223.45	4634.96	-3411.50
78+0.000	5.00	0.00	0.00	0.00	1.00	10.15	1223.45	1223.45	4645.11	-3421.66
78+10.000	5.00	0.04	0.18	0.18	0.11	5.53	1223.64	1223.64	4650.64	-3427.00
79+0.000	5.00	1.57	8.05	8.05	0.00	0.53	1231.69	1231.69	4651.16	-3419.47
79+10.000	5.00	0.15	8.62	8.62	0.01	0.07	1240.31	1240.31	4651.23	-3410.92
80+0.000	5.00	0.00	0.75	0.75	1.88	9.47	1241.06	1241.06	4660.70	-3419.64
80+10.000	5.00	0.00	0.00	0.00	2.06	19.71	1241.06	1241.06	4680.41	-3439.35
81+0.000	5.00	0.00	0.00	0.00	2.16	21.08	1241.06	1241.06	4701.49	-3460.43
81+10.000	5.00	0.00	0.00	0.00	1.38	17.66	1241.06	1241.06	4719.15	-3478.09
82+0.000	5.00	0.00	0.00	0.00	1.54	14.58	1241.06	1241.06	4733.73	-3492.67
82+10.000	5.00	0.00	0.00	0.00	1.46	14.99	1241.06	1241.06	4748.72	-3507.66
83+0.000	5.00	0.00	0.00	0.00	2.30	18.79	1241.06	1241.06	4767.52	-3526.46
83+10.000	5.00	0.00	0.00	0.00	2.78	25.37	1241.06	1241.06	4792.89	-3551.83
84+0.000	5.00	0.00	0.00	0.00	3.27	30.20	1241.06	1241.06	4823.09	-3582.03
84+10.000	5.00	0.00	0.00	0.00	2.63	29.48	1241.06	1241.06	4852.57	-3611.51
85+0.000	5.00	0.00	0.00	0.00	2.08	23.54	1241.06	1241.06	4876.11	-3635.05
85+10.000	5.00	0.00	0.00	0.00	1.04	15.58	1241.06	1241.06	4891.70	-3650.64
86+0.000	5.00	0.00	0.00	0.00	0.36	6.99	1241.06	1241.06	4898.69	-3657.63
86+10.000	5.00	0.00	0.00	0.00	0.28	3.19	1241.06	1241.06	4901.88	-3660.82
87+0.000	5.00	0.00	0.00	0.00	0.65	4.65	1241.06	1241.06	4906.53	-3665.47
87+10.000	5.00	0.00	0.00	0.00	1.08	8.67	1241.06	1241.06	4915.20	-3674.14
88+0.000	5.00	0.00	0.00	0.00	1.53	13.09	1241.06	1241.06	4928.29	-3687.23
88+10.000	5.00	0.00	0.00	0.00	1.47	15.00	1241.06	1241.06	4943.28	-3702.22
89+0.000	5.00	0.00	0.00	0.00	0.79	11.28	1241.06	1241.06	4954.56	-3713.50
89+10.000	5.00	1.01	5.02	5.02	0.00	3.94	1246.08	1246.08	4958.50	-3712.42
90+0.000	5.00	1.96	14.75	14.75	0.00	0.00	1260.83	1260.83	4958.50	-3697.67
90+10.000	5.00	1.35	16.57	16.57	0.00	0.00	1277.40	1277.40	4958.50	-3681.10
91+0.000	5.00	0.97	11.63	11.63	0.00	0.00	1289.04	1289.04	4958.50	-3669.46

Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

Estaca	Semi Distância (m)	Área de Corte (m ²)	Volume de Corte (m ³)	Vol. Reuso (m ³)	Área de Aterro (m ²)	Volume Aterro (m ³)	Vol. Acum. Corte (m ³)	Vol. Reuso Acum. (m ³)	Vol. Acum. Aterro (m ³)	Dif. Vol. Acum. (m ³)
91+10.000	5.00	1.34	11.53	11.53	0.00	0.00	1300.56	1300.56	4958.50	-3657.94
92+0.000	5.00	0.00	6.70	6.70	0.31	1.53	1307.26	1307.26	4960.03	-3652.77
92+10.000	5.00	0.00	0.04	0.04	1.25	7.78	1307.30	1307.30	4967.81	-3660.51
93+0.000	5.00	0.00	0.00	0.00	1.98	16.14	1307.30	1307.30	4983.95	-3676.65
93+10.000	5.00	0.00	0.00	0.00	1.68	18.31	1307.30	1307.30	5002.26	-3694.96
94+0.000	5.00	0.00	0.00	0.00	0.51	10.97	1307.30	1307.30	5013.23	-3705.94
94+10.000	5.00	0.00	0.04	0.04	0.20	3.52	1307.34	1307.34	5016.76	-3709.42
95+0.000	5.00	0.00	0.04	0.04	0.48	3.40	1307.37	1307.37	5020.15	-3712.78
95+10.000	5.00	0.00	0.00	0.00	0.69	5.88	1307.37	1307.37	5026.04	-3718.66
96+0.000	5.00	0.00	0.00	0.00	2.08	13.87	1307.37	1307.37	5039.91	-3732.54
96+10.000	5.00	0.00	0.00	0.00	0.46	12.74	1307.37	1307.37	5052.65	-3745.28
97+0.000	5.00	1.75	8.77	8.77	0.00	2.31	1316.14	1316.14	5054.96	-3738.82
97+10.000	5.00	5.30	37.73	37.73	0.00	0.00	1353.87	1353.87	5054.96	-3701.09
98+0.000	5.00	2.99	41.74	41.74	0.00	0.00	1395.62	1395.62	5054.96	-3659.35
98+10.000	5.00	0.10	15.49	15.49	0.03	0.13	1411.10	1411.10	5055.10	-3643.99
99+0.000	5.00	0.00	0.52	0.52	1.51	7.69	1411.62	1411.62	5062.79	-3651.17
99+10.000	5.00	0.00	0.00	0.00	1.40	14.55	1411.62	1411.62	5077.34	-3665.72
100+0.000	5.00	0.00	0.00	0.00	1.10	12.50	1411.62	1411.62	5089.84	-3678.22
100+10.000	5.00	0.00	0.00	0.00	0.97	10.37	1411.62	1411.62	5100.21	-3688.59
101+0.000	5.00	0.00	0.02	0.02	0.37	6.75	1411.64	1411.64	5106.96	-3695.32
101+10.000	5.00	0.63	3.14	3.14	0.00	1.88	1414.78	1414.78	5108.84	-3694.06
102+0.000	5.00	1.12	8.73	8.73	0.00	0.00	1423.50	1423.50	5108.84	-3685.34
102+10.000	5.00	1.04	10.76	10.76	0.00	0.00	1434.27	1434.27	5108.84	-3674.57
103+0.000	5.00	1.05	10.42	10.42	0.00	0.00	1444.69	1444.69	5108.84	-3664.15
103+10.000	5.00	1.09	10.67	10.67	0.00	0.00	1455.36	1455.36	5108.84	-3653.48
104+0.000	5.00	1.30	11.92	11.92	0.00	0.00	1467.28	1467.28	5108.84	-3641.56
104+10.000	5.00	1.52	14.09	14.09	0.00	0.00	1481.38	1481.38	5108.84	-3627.46
105+0.000	5.00	1.32	14.22	14.22	0.00	0.00	1495.60	1495.60	5108.84	-3613.24
105+10.000	5.00	0.96	11.41	11.41	0.00	0.00	1507.01	1507.01	5108.84	-3601.83
106+0.000	5.00	0.69	8.25	8.25	0.00	0.00	1515.26	1515.26	5108.84	-3593.58
106+10.000	5.00	0.46	5.78	5.78	0.00	0.00	1521.04	1521.04	5108.84	-3587.80
107+0.000	5.00	0.18	3.21	3.21	0.02	0.08	1524.25	1524.25	5108.92	-3584.66
107+10.000	5.00	0.02	0.97	0.97	0.18	1.00	1525.23	1525.23	5109.92	-3584.70
108+0.000	5.00	0.00	0.08	0.08	0.49	3.39	1525.31	1525.31	5113.31	-3588.00
108+10.000	5.00	0.00	0.00	0.00	0.72	6.06	1525.31	1525.31	5119.37	-3594.06
109+0.000	5.00	0.00	0.00	0.00	0.47	5.93	1525.31	1525.31	5125.29	-3599.99
109+10.000	5.00	0.00	0.00	0.00	0.23	3.48	1525.31	1525.31	5128.77	-3603.46
110+0.000	5.00	0.04	0.23	0.23	0.09	1.62	1525.54	1525.54	5130.39	-3604.84
110+10.000	5.00	0.40	2.21	2.21	0.00	0.47	1527.75	1527.75	5130.86	-3603.11
111+0.000	5.00	1.23	8.14	8.14	0.00	0.00	1535.89	1535.89	5130.86	-3594.97
111+10.000	5.00	1.05	11.42	11.42	0.00	0.00	1547.31	1547.31	5130.86	-3583.55
112+0.000	5.00	1.16	11.07	11.07	0.00	0.00	1558.38	1558.38	5130.86	-3572.48
112+10.000	5.00	0.91	10.37	10.37	0.00	0.00	1568.75	1568.75	5130.86	-3562.11
113+0.000	5.00	0.54	7.26	7.26	0.00	0.00	1576.01	1576.01	5130.86	-3554.85
113+10.000	5.00	0.62	5.79	5.79	0.00	0.00	1581.80	1581.80	5130.86	-3549.06
114+0.000	5.00	0.97	7.93	7.93	0.00	0.00	1589.73	1589.73	5130.86	-3541.13


Relatório de Volumes

ESTRADA BR 226 A LAGOINHA

Estaca Inicial: 0+0.000

Estaca Final: 115+5.220

<u>Estaca</u>	<u>Semi</u> <u>Distância</u> <u>(m)</u>	<u>Área de</u> <u>Corte</u> <u>(m²)</u>	<u>Volume</u> <u>de</u> <u>Corte</u> <u>(m³)</u>	<u>Vol.</u> <u>Reuso</u> <u>(m³)</u>	<u>Área de</u> <u>Aterro</u> <u>(m²)</u>	<u>Volume</u> <u>Aterro</u> <u>(m³)</u>	<u>Vol.</u> <u>Acum.</u> <u>Corte</u> <u>(m³)</u>	<u>Vol.</u> <u>Reuso</u> <u>Acum.</u> <u>(m³)</u>	<u>Vol.</u> <u>Acum.</u> <u>Aterro</u> <u>(m³)</u>	<u>Dif. Vol.</u> <u>Acum.</u> <u>(m³)</u>
114+10.000	5.00	0.78	8.74	8.74	0.00	0.00	1598.46	1598.46	5130.86	-3532.39
115+0.000	5.00	0.67	7.26	7.26	0.00	0.00	1605.72	1605.72	5130.86	-3525.13
115+5.220	2.61	0.59	3.30	3.30	0.00	0.00	1609.02	1609.02	5130.86	-3521.84


JOYÁ BARROS PROJETOS
Arquit. Moreira Torquato
Eng.º Civil - CREA 5309/00 - CE

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
0+0.000	0.00	0.96	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00
0+10.000	5.00	0.70	8.29	8.29	0.12	1.97	8.29	8.29	1.97	6.32
1+0.000	5.00	0.39	5.43	5.43	0.00	0.67	13.72	13.72	2.63	11.08
1+10.000	5.00	0.52	4.51	4.51	0.00	0.05	18.22	18.22	2.68	15.54
2+0.000	5.00	0.50	5.07	5.07	0.31	1.58	23.30	23.30	4.26	19.04
2+10.000	5.00	0.31	4.05	4.05	0.47	3.92	27.35	27.35	8.17	19.17
3+0.000	5.00	0.20	2.28	2.28	0.08	3.01	29.63	29.63	11.18	18.45
3+10.000	5.00	0.23	1.88	1.88	0.00	0.43	31.50	31.50	11.61	19.90
4+0.000	5.00	0.76	4.90	4.90	0.00	0.00	36.41	36.41	11.61	24.80
4+10.000	5.00	1.85	13.05	13.05	0.00	0.00	49.46	49.46	11.61	37.85
5+0.000	5.00	0.82	13.35	13.35	0.00	0.00	62.81	62.81	11.61	51.21
5+10.000	5.00	0.45	6.34	6.34	0.00	0.00	69.16	69.16	11.61	57.55
6+0.000	5.00	0.40	4.21	4.21	0.00	0.00	73.37	73.37	11.61	61.76
6+10.000	5.00	0.30	3.48	3.48	0.00	0.00	76.85	76.85	11.61	65.24
7+0.000	5.00	0.17	2.36	2.36	0.01	0.07	79.21	79.21	11.68	67.53
7+10.000	5.00	0.11	1.43	1.43	0.04	0.27	80.65	80.65	11.95	68.70
8+0.000	5.00	0.10	1.08	1.08	0.04	0.42	81.73	81.73	12.37	69.36
8+10.000	5.00	0.14	1.21	1.21	0.03	0.36	82.94	82.94	12.74	70.20
9+0.000	5.00	0.84	4.88	4.88	0.00	0.14	87.82	87.82	12.88	74.95
9+10.000	5.00	0.86	8.48	8.48	0.00	0.00	96.30	96.30	12.88	83.43
10+0.000	5.00	0.13	4.92	4.92	0.03	0.15	101.22	101.22	13.03	88.19
10+10.000	5.00	0.09	1.07	1.07	0.05	0.42	102.29	102.29	13.45	88.84
11+0.000	5.00	0.00	0.44	0.44	0.64	3.49	102.73	102.73	16.94	85.79
11+10.000	5.00	0.00	0.00	0.00	1.47	10.59	102.73	102.73	27.53	75.20
12+0.000	5.00	0.00	0.00	0.00	1.51	14.93	102.73	102.73	42.46	60.27
12+10.000	5.00	0.00	0.00	0.00	1.14	13.27	102.73	102.73	55.73	47.00
13+0.000	5.00	0.00	0.04	0.04	0.24	6.89	102.77	102.77	62.62	40.14
13+10.000	5.00	0.73	3.70	3.70	0.00	1.19	106.47	106.47	63.81	42.66
14+0.000	5.00	0.84	7.89	7.89	0.00	0.00	114.36	114.36	63.81	50.55
14+10.000	5.00	0.39	6.13	6.13	0.00	0.04	120.49	120.49	63.85	56.64
15+0.000	5.00	0.03	2.09	2.09	0.30	1.54	122.57	122.57	65.38	57.19
15+10.000	5.00	0.00	0.13	0.13	1.18	7.38	122.70	122.70	72.77	49.93
16+0.000	5.00	0.00	0.00	0.00	2.05	16.12	122.70	122.70	88.89	33.81
16+10.000	5.00	0.00	0.00	0.00	2.29	21.69	122.70	122.70	110.57	12.13
17+0.000	5.00	0.00	0.00	0.00	2.71	25.02	122.70	122.70	135.59	-12.89
17+10.000	5.00	0.00	0.00	0.00	2.21	24.62	122.70	122.70	160.21	-37.51
18+0.000	5.00	0.00	0.00	0.00	1.73	19.67	122.70	122.70	179.88	-57.18
18+10.000	5.00	0.00	0.00	0.00	1.23	14.77	122.70	122.70	194.65	-71.95
19+0.000	5.00	0.00	0.00	0.00	0.64	9.34	122.70	122.70	203.98	-81.29
19+10.000	5.00	0.15	0.76	0.76	0.00	3.21	123.46	123.46	207.19	-83.73
20+0.000	5.00	0.41	2.82	2.82	0.02	0.10	126.28	126.28	207.29	-81.01
20+10.000	5.00	0.15	2.93	2.93	0.06	0.38	129.21	129.21	207.68	-78.47
21+0.000	5.00	0.00	0.76	0.76	0.82	4.41	129.97	129.97	212.09	-82.12
21+10.000	5.00	0.00	0.00	0.00	2.19	15.08	129.97	129.97	227.17	-97.20
22+0.000	5.00	0.00	0.00	0.00	3.69	29.42	129.97	129.97	256.58	-126.62

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
22+10.000	5.00	0.00	0.00	0.00	4.85	42.72	129.97	129.97	299.30	-169.33
23+0.000	5.00	0.00	0.00	0.00	3.24	40.47	129.97	129.97	339.78	-209.81
23+10.000	5.00	0.00	0.00	0.00	1.46	23.52	129.97	129.97	363.30	-233.33
24+0.000	5.00	0.00	0.00	0.00	0.51	9.86	129.97	129.97	373.16	-243.20
24+10.000	5.00	0.06	0.31	0.31	0.06	2.87	130.27	130.27	376.03	-245.75
25+0.000	5.00	0.17	1.15	1.15	0.00	0.33	131.42	131.42	376.36	-244.94
25+10.000	5.00	0.09	1.30	1.30	0.03	0.15	132.72	132.72	376.51	-243.79
26+0.000	5.00	0.00	0.46	0.46	0.60	3.14	133.19	133.19	379.65	-246.46
26+10.000	5.00	0.00	0.00	0.00	1.01	8.08	133.19	133.19	387.73	-254.54
27+0.000	5.00	0.00	0.00	0.00	0.99	10.01	133.19	133.19	397.74	-264.55
27+10.000	5.00	0.09	0.47	0.47	1.44	11.85	133.65	133.65	409.58	-275.93
28+0.000	5.00	0.00	0.44	0.44	1.55	14.95	134.09	134.09	424.54	-290.45
28+10.000	5.00	0.00	0.00	0.00	0.44	9.95	134.09	134.09	434.48	-300.39
29+0.000	5.00	0.01	0.06	0.06	0.22	3.24	134.15	134.15	437.72	-303.57
29+10.000	5.00	0.00	0.07	0.07	0.98	6.01	134.22	134.22	443.73	-309.51
30+0.000	5.00	0.05	0.25	0.25	0.28	6.27	134.47	134.47	450.00	-315.53
30+10.000	5.00	2.29	11.84	11.84	0.00	1.30	146.31	146.31	451.30	-304.99
31+0.000	5.00	0.18	12.41	12.41	0.22	1.08	158.72	158.72	452.38	-293.66
31+10.000	5.00	0.04	1.11	1.11	0.73	4.73	159.83	159.83	457.10	-297.27
32+0.000	5.00	0.07	0.55	0.55	1.79	12.57	160.39	160.39	469.67	-309.28
32+10.000	5.00	0.00	0.44	0.44	0.65	10.86	160.83	160.83	480.53	-319.70
33+0.000	5.00	0.22	1.08	1.08	0.24	4.49	161.91	161.91	485.02	-323.11
33+10.000	5.00	0.30	2.62	2.62	0.62	4.31	164.53	164.53	489.33	-324.80
34+0.000	5.00	0.00	1.51	1.51	1.25	9.34	166.04	166.04	498.67	-332.62
34+10.000	5.00	0.00	0.00	0.00	0.72	9.80	166.04	166.04	508.47	-342.43
35+0.000	5.00	0.04	0.21	0.21	0.21	4.64	166.26	166.26	513.12	-346.86
35+10.000	5.00	0.00	0.21	0.21	0.41	3.12	166.47	166.47	516.24	-349.77
36+0.000	5.00	0.10	0.51	0.51	0.47	4.40	166.98	166.98	520.64	-353.67
36+10.000	5.00	0.20	1.51	1.51	0.64	5.56	168.49	168.49	526.20	-357.71
37+0.000	5.00	0.00	1.07	1.07	1.16	8.87	169.56	169.56	535.08	-365.52
37+10.000	5.00	0.00	0.00	0.00	1.32	12.37	169.56	169.56	547.44	-377.88
38+0.000	5.00	0.00	0.00	0.00	1.35	13.36	169.56	169.56	560.81	-391.25
38+10.000	5.00	0.00	0.00	0.00	1.89	16.18	169.56	169.56	576.98	-407.42
39+0.000	5.00	0.00	0.00	0.00	1.65	17.77	169.56	169.56	594.75	-425.19
39+10.000	5.00	0.00	0.00	0.00	2.47	20.97	169.56	169.56	615.72	-446.16
40+0.000	5.00	0.00	0.00	0.00	3.93	32.00	169.56	169.56	647.72	-478.16
40+10.000	5.00	0.00	0.00	0.00	4.47	42.14	169.56	169.56	689.86	-520.30
41+0.000	5.00	0.00	0.00	0.00	3.62	40.50	169.56	169.56	730.36	-560.80
41+10.000	5.00	0.00	0.00	0.00	2.29	29.53	169.56	169.56	759.89	-590.33
42+0.000	5.00	0.00	0.00	0.00	2.53	24.07	169.56	169.56	783.97	-614.41
42+10.000	5.00	0.00	0.00	0.00	3.14	28.35	169.56	169.56	812.32	-642.76
43+0.000	5.00	0.00	0.00	0.00	4.50	38.18	169.56	169.56	850.50	-680.94
43+10.000	5.00	0.00	0.00	0.00	7.09	57.89	169.56	169.56	908.40	-738.84
44+0.000	5.00	0.00	0.00	0.00	13.27	101.77	169.56	169.56	1010.17	-840.61
44+10.000	5.00	0.00	0.00	0.00	10.75	120.10	169.56	169.56	1130.27	-960.71
45+0.000	5.00	0.00	0.00	0.00	6.83	87.92	169.56	169.56	1218.18	-1048.62

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
45+10.000	5.00	0.00	0.00	0.00	3.62	52.16	169.56	169.56	1270.34	-1100.78
46+0.000	5.00	0.00	0.00	0.00	1.01	23.14	169.56	169.56	1293.49	-1123.93
46+10.000	5.00	0.41	2.06	2.06	0.00	5.10	171.62	171.62	1298.58	-1126.97
47+0.000	5.00	0.52	4.68	4.68	0.00	0.00	176.30	176.30	1298.58	-1122.28
47+10.000	5.00	0.09	3.05	3.05	0.05	0.27	179.35	179.35	1298.86	-1119.51
48+0.000	5.00	0.00	0.44	0.44	0.53	2.91	179.78	179.78	1301.77	-1121.98
48+10.000	5.00	0.00	0.00	0.00	1.35	9.36	179.78	179.78	1311.13	-1131.34
49+0.000	5.00	0.00	0.00	0.00	2.43	18.85	179.78	179.78	1329.98	-1150.20
49+10.000	5.00	0.00	0.00	0.00	2.53	24.79	179.78	179.78	1354.77	-1174.99
50+0.000	5.00	0.00	0.00	0.00	2.34	24.36	179.78	179.78	1379.13	-1199.35
50+10.000	5.00	0.00	0.00	0.00	0.91	16.27	179.78	179.78	1395.41	-1215.62
51+0.000	5.00	0.38	1.90	1.90	0.00	4.57	181.68	181.68	1399.98	-1218.30
51+10.000	5.00	0.20	2.89	2.89	0.00	0.04	184.57	184.57	1400.02	-1215.44
52+0.000	5.00	0.00	1.01	1.01	0.54	2.73	185.58	185.58	1402.75	-1217.17
52+10.000	5.00	0.00	0.00	0.00	0.34	4.38	185.58	185.58	1407.12	-1221.54
53+0.000	5.00	0.00	0.00	0.00	0.30	3.18	185.58	185.58	1410.31	-1224.73
53+10.000	5.00	0.00	0.00	0.00	0.39	3.48	185.58	185.58	1413.78	-1228.20
54+0.000	5.00	0.00	0.00	0.00	0.32	3.56	185.58	185.58	1417.34	-1231.76
54+10.000	5.00	0.04	0.22	0.22	0.14	2.27	185.80	185.80	1419.61	-1233.81
55+0.000	5.00	0.18	1.10	1.10	0.04	0.90	186.90	186.90	1420.51	-1233.62
55+10.000	5.00	1.42	7.97	7.97	0.00	0.22	194.87	194.87	1420.74	-1225.87
56+0.000	5.00	0.63	10.27	10.27	0.00	0.00	205.14	205.14	1420.74	-1215.60
56+10.000	5.00	0.00	3.17	3.17	1.19	5.96	208.30	208.30	1426.70	-1218.40
57+0.000	5.00	0.00	0.00	0.00	1.57	13.79	208.30	208.30	1440.49	-1232.19
57+10.000	5.00	0.00	0.00	0.00	0.77	11.64	208.30	208.30	1452.13	-1243.82
58+0.000	5.00	0.16	0.78	0.78	0.58	6.82	209.08	209.08	1458.94	-1249.86
58+10.000	5.00	0.59	3.75	3.75	0.06	3.20	212.83	212.83	1462.15	-1249.31
59+0.000	5.00	0.11	3.49	3.49	0.26	1.60	216.32	216.32	1463.75	-1247.43
59+10.000	5.00	0.00	0.55	0.55	1.30	7.78	216.88	216.88	1471.53	-1254.66
60+0.000	5.00	0.00	0.00	0.00	1.20	12.47	216.88	216.88	1484.00	-1267.13
60+10.000	5.00	0.00	0.00	0.00	1.70	14.50	216.88	216.88	1498.51	-1281.63
61+0.000	5.00	0.26	1.28	1.28	0.00	8.52	218.16	218.16	1507.03	-1288.87
61+10.000	5.00	0.71	4.83	4.83	0.00	0.02	222.99	222.99	1507.05	-1284.06
62+0.000	5.00	0.62	6.70	6.70	0.00	0.00	229.69	229.69	1507.05	-1277.36
62+10.000	5.00	0.40	5.09	5.09	0.00	0.00	234.79	234.79	1507.05	-1272.27
63+0.000	5.00	0.28	3.37	3.37	0.00	0.00	238.16	238.16	1507.05	-1268.90
63+10.000	5.00	0.15	2.12	2.12	0.02	0.11	240.28	240.28	1507.16	-1266.88
64+0.000	5.00	0.00	0.73	0.73	0.26	1.40	241.01	241.01	1508.56	-1267.55
64+10.000	5.00	0.00	0.00	0.00	0.52	3.91	241.01	241.01	1512.48	-1271.47
65+0.000	5.00	0.00	0.00	0.00	0.97	7.45	241.01	241.01	1519.92	-1278.91
65+10.000	5.00	0.00	0.00	0.00	1.66	13.11	241.01	241.01	1533.03	-1292.02
66+0.000	5.00	0.00	0.00	0.00	1.70	16.80	241.01	241.01	1549.83	-1308.82
66+10.000	5.00	0.00	0.00	0.00	1.67	16.86	241.01	241.01	1566.69	-1325.68
67+0.000	5.00	0.00	0.00	0.00	1.56	16.15	241.01	241.01	1582.84	-1341.83
67+10.000	5.00	0.00	0.00	0.00	1.46	15.12	241.01	241.01	1597.96	-1356.95
68+0.000	5.00	0.00	0.00	0.00	1.38	14.24	241.01	241.01	1612.20	-1371.19

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
68+10.000	5.00	0.00	0.00	0.00	1.37	13.76	241.01	241.01	1625.96	-1384.95
69+0.000	5.00	0.00	0.00	0.00	1.42	13.94	241.01	241.01	1639.91	-1398.90
69+10.000	5.00	0.00	0.00	0.00	1.31	13.68	241.01	241.01	1653.58	-1412.57
70+0.000	5.00	0.00	0.00	0.00	0.77	10.44	241.01	241.01	1664.02	-1423.01
70+10.000	5.00	0.00	0.00	0.00	0.48	6.25	241.01	241.01	1670.27	-1429.26
71+0.000	5.00	0.00	0.00	0.00	0.38	4.28	241.01	241.01	1674.55	-1433.54
71+10.000	5.00	0.00	0.00	0.00	0.87	6.24	241.01	241.01	1680.79	-1439.78
72+0.000	5.00	0.06	0.34	0.34	1.31	10.73	241.35	241.35	1691.53	-1450.18
72+10.000	5.00	0.00	0.36	0.36	0.87	10.67	241.71	241.71	1702.20	-1460.49
73+0.000	5.00	0.00	0.00	0.00	0.83	8.50	241.71	241.71	1710.70	-1468.99
73+10.000	5.00	0.00	0.00	0.00	1.13	9.84	241.71	241.71	1720.54	-1478.83
74+0.000	5.00	0.04	0.19	0.19	0.35	7.42	241.90	241.90	1727.96	-1486.06
74+10.000	5.00	0.13	0.86	0.86	0.02	1.92	242.76	242.76	1729.88	-1487.12
75+0.000	5.00	0.00	0.66	0.66	0.47	2.48	243.43	243.43	1732.36	-1488.93
75+10.000	5.00	0.00	0.00	0.00	0.88	6.75	243.43	243.43	1739.11	-1495.68
76+0.000	5.00	0.00	0.00	0.00	0.58	7.31	243.43	243.43	1746.42	-1502.99
76+10.000	5.00	0.01	0.07	0.07	0.22	4.04	243.50	243.50	1750.46	-1506.96
77+0.000	5.00	0.26	1.37	1.37	0.00	1.12	244.86	244.86	1751.58	-1506.71
77+10.000	5.00	0.05	1.55	1.55	0.09	0.47	246.42	246.42	1752.04	-1505.63
78+0.000	5.00	0.00	0.26	0.26	0.45	2.74	246.67	246.67	1754.78	-1508.11
78+10.000	5.00	0.49	2.43	2.43	0.00	2.28	249.11	249.11	1757.06	-1507.95
79+0.000	5.00	0.76	6.23	6.23	0.00	0.02	255.34	255.34	1757.07	-1501.73
79+10.000	5.00	0.00	3.79	3.79	0.48	2.43	259.13	259.13	1759.50	-1500.38
80+0.000	5.00	0.00	0.00	0.00	1.49	9.87	259.13	259.13	1769.38	-1510.25
80+10.000	5.00	0.00	0.00	0.00	0.95	12.22	259.13	259.13	1781.59	-1522.47
81+0.000	5.00	0.00	0.00	0.00	1.46	11.97	259.13	259.13	1793.57	-1534.44
81+10.000	5.00	0.31	1.55	1.55	0.00	7.28	260.68	260.68	1800.84	-1540.17
82+0.000	5.00	0.08	1.94	1.94	0.07	0.37	262.61	262.61	1801.21	-1538.60
82+10.000	5.00	0.00	0.38	0.38	0.84	4.58	263.00	263.00	1805.79	-1542.80
83+0.000	5.00	0.00	0.00	0.00	1.86	13.50	263.00	263.00	1819.29	-1556.29
83+10.000	5.00	0.00	0.00	0.00	1.15	15.02	263.00	263.00	1834.31	-1571.32
84+0.000	5.00	0.00	0.00	0.00	0.94	10.44	263.00	263.00	1844.76	-1581.76
84+10.000	5.00	0.00	0.00	0.00	0.99	9.67	263.00	263.00	1854.42	-1591.43
85+0.000	5.00	0.02	0.12	0.12	0.60	7.97	263.12	263.12	1862.39	-1599.28
85+10.000	5.00	0.00	0.12	0.12	0.65	6.30	263.23	263.23	1868.69	-1605.46
86+0.000	5.00	0.11	0.47	0.47	0.10	3.82	263.70	263.70	1872.51	-1608.81
86+10.000	5.00	1.11	5.95	5.95	0.00	0.48	269.65	269.65	1872.99	-1603.34
87+0.000	5.00	0.84	9.51	9.51	0.00	0.00	279.15	279.15	1872.99	-1593.83
87+10.000	5.00	0.10	4.71	4.71	0.22	1.09	283.86	283.86	1874.08	-1590.22
88+0.000	5.00	0.00	0.54	0.54	0.30	2.57	284.40	284.40	1876.65	-1592.25
88+10.000	5.00	0.28	1.41	1.41	0.00	1.48	285.81	285.81	1878.12	-1592.31
89+0.000	5.00	0.57	4.23	4.23	0.00	0.00	290.04	290.04	1878.13	-1588.09
89+10.000	5.00	1.24	9.12	9.12	0.00	0.00	299.15	299.15	1878.13	-1578.98
90+0.000	5.00	3.00	21.19	21.19	0.00	0.00	320.34	320.34	1878.13	-1557.79
90+10.000	5.00	3.00	30.00	30.00	0.00	0.00	350.34	350.34	1878.13	-1527.80
91+0.000	5.00	2.63	28.15	28.15	0.00	0.00	378.49	378.49	1878.13	-1499.64

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Vol. Reuso (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Reuso Acum. (m³)	Vol. Acum. Aterro (m³)	Dif. Vol. Acum. (m³)
91+10.000	5.00	0.79	17.10	17.10	0.00	0.00	395.59	395.59	1878.13	-1482.54
92+0.000	5.00	0.00	3.94	3.94	0.41	2.06	399.53	399.53	1880.19	-1480.66
92+10.000	5.00	0.07	0.35	0.35	0.07	2.41	399.88	399.88	1882.60	-1482.73
93+0.000	5.00	0.69	3.82	3.82	0.00	0.35	403.70	403.70	1882.96	-1479.26
93+10.000	5.00	0.00	3.47	3.47	0.54	2.71	407.17	407.17	1885.66	-1478.49
94+0.000	5.00	0.00	0.00	0.00	1.63	10.86	407.17	407.17	1896.52	-1489.35
94+10.000	5.00	0.00	0.00	0.00	1.68	16.54	407.17	407.17	1913.06	-1505.89
95+0.000	5.00	0.00	0.00	0.00	2.27	19.76	407.17	407.17	1932.82	-1525.65
95+10.000	5.00	0.00	0.00	0.00	0.97	16.21	407.17	407.17	1949.04	-1541.87
96+0.000	5.00	0.00	0.00	0.00	0.45	7.09	407.17	407.17	1956.13	-1548.96
96+10.000	5.00	0.39	1.93	1.93	0.00	2.25	409.10	409.10	1958.38	-1549.28
97+0.000	5.00	0.03	2.05	2.05	0.54	2.76	411.15	411.15	1961.15	-1550.00
97+10.000	5.00	0.00	0.13	0.13	2.67	16.07	411.28	411.28	1977.22	-1565.94
98+0.000	5.00	0.00	0.00	0.00	2.47	25.85	411.28	411.28	2003.07	-1591.78
98+10.000	5.00	0.00	0.00	0.00	2.23	23.53	411.28	411.28	2026.59	-1615.31
99+0.000	5.00	0.00	0.00	0.00	1.20	17.18	411.28	411.28	2043.77	-1632.49
99+10.000	5.00	0.00	0.00	0.00	0.99	10.95	411.28	411.28	2054.72	-1643.44
100+0.000	5.00	0.00	0.00	0.00	1.67	13.31	411.28	411.28	2068.03	-1656.75
100+10.000	5.00	0.00	0.00	0.00	2.54	21.05	411.28	411.28	2089.08	-1677.80
101+0.000	5.00	0.00	0.00	0.00	2.94	27.37	411.28	411.28	2116.46	-1705.17
101+10.000	5.00	0.00	0.00	0.00	3.37	31.53	411.28	411.28	2147.99	-1736.71
102+0.000	5.00	0.00	0.00	0.00	3.82	35.94	411.28	411.28	2183.92	-1772.64
102+10.000	5.00	0.00	0.00	0.00	4.21	40.13	411.28	411.28	2224.06	-1812.78
103+0.000	5.00	0.00	0.00	0.00	4.59	43.98	411.28	411.28	2268.04	-1856.76
103+10.000	5.00	0.00	0.00	0.00	11.47	80.28	411.28	411.28	2348.32	-1937.04
104+0.000	5.00	0.00	0.00	0.00	8.37	99.16	411.28	411.28	2447.48	-2036.20
104+10.000	5.00	0.00	0.00	0.00	6.82	75.90	411.28	411.28	2523.38	-2112.10
105+0.000	5.00	0.00	0.00	0.00	7.26	70.39	411.28	411.28	2593.77	-2182.49
105+10.000	5.00	0.00	0.00	0.00	8.28	77.70	411.28	411.28	2671.47	-2260.19
106+0.000	5.00	0.00	0.00	0.00	9.40	88.40	411.28	411.28	2759.86	-2348.58
106+10.000	5.00	0.00	0.00	0.00	9.27	93.34	411.28	411.28	2853.20	-2441.92
107+0.000	5.00	0.00	0.00	0.00	8.97	91.21	411.28	411.28	2944.41	-2533.13
107+10.000	5.00	0.00	0.00	0.00	9.21	90.94	411.28	411.28	3035.35	-2624.07
108+0.000	5.00	0.00	0.00	0.00	9.58	93.98	411.28	411.28	3129.33	-2718.04
108+10.000	5.00	0.00	0.00	0.00	10.19	98.84	411.28	411.28	3228.17	-2816.89
109+0.000	5.00	0.00	0.00	0.00	11.79	109.88	411.28	411.28	3338.05	-2926.77
109+10.000	5.00	0.00	0.00	0.00	14.50	131.45	411.28	411.28	3469.50	-3058.22
110+0.000	5.00	0.00	0.00	0.00	12.91	137.07	411.28	411.28	3606.57	-3195.28
110+10.000	5.00	0.00	0.00	0.00	10.87	118.89	411.28	411.28	3725.46	-3314.18
111+0.000	5.00	0.00	0.00	0.00	9.05	99.58	411.28	411.28	3825.04	-3413.76
111+10.000	5.00	0.00	0.00	0.00	6.40	77.21	411.28	411.28	3902.25	-3490.97
112+0.000	5.00	0.00	0.00	0.00	3.49	49.46	411.28	411.28	3951.71	-3540.43
112+10.000	5.00	0.00	0.00	0.00	1.31	24.02	411.28	411.28	3975.74	-3564.45
113+0.000	5.00	0.48	2.42	2.42	0.00	6.56	413.70	413.70	3982.30	-3568.60
113+10.000	5.00	0.84	6.60	6.60	0.00	0.00	420.30	420.30	3982.30	-3562.00
114+0.000	5.00	0.66	7.50	7.50	0.00	0.00	427.79	427.79	3982.30	-3554.50

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
114+10.000	5.00	0.27	4.65	4.65	0.00	0.03	432.45	432.45	3982.32	-3549.88
115+0.000	5.00	0.14	2.02	2.02	0.05	0.29	434.46	434.46	3982.61	-3548.15
115+10.000	5.00	0.00	0.68	0.68	0.43	2.43	435.14	435.14	3985.04	-3549.90
116+0.000	5.00	0.00	0.00	0.00	1.03	7.33	435.14	435.14	3992.37	-3557.23
116+10.000	5.00	0.00	0.00	0.00	0.41	7.19	435.14	435.14	3999.56	-3564.42
117+0.000	5.00	0.38	1.89	1.89	0.00	2.03	437.03	437.03	4001.60	-3564.56
117+10.000	5.00	0.20	2.91	2.91	0.01	0.06	439.94	439.94	4001.66	-3561.72
118+0.000	5.00	0.00	1.02	1.02	0.61	3.11	440.96	440.96	4004.76	-3563.81
118+10.000	5.00	1.03	5.24	5.24	0.00	3.03	446.20	446.20	4007.79	-3561.60
119+0.000	5.00	2.72	18.71	18.71	0.00	0.00	464.90	464.90	4007.79	-3542.89
119+10.000	5.00	1.15	19.32	19.32	0.00	0.00	484.22	484.22	4007.79	-3523.57
120+0.000	5.00	0.06	6.05	6.05	0.50	2.51	490.27	490.27	4010.30	-3520.03
120+10.000	5.00	0.64	3.51	3.51	0.00	2.51	493.79	493.79	4012.81	-3519.02
121+0.000	5.00	1.81	12.26	12.26	0.00	0.00	506.05	506.05	4012.81	-3506.76
121+10.000	5.00	0.90	13.46	13.46	0.00	0.00	519.51	519.51	4012.81	-3493.30
122+0.000	5.00	0.35	6.23	6.23	0.00	0.00	525.74	525.74	4012.81	-3487.07
122+10.000	5.00	0.00	1.75	1.75	0.70	3.49	527.49	527.49	4016.30	-3488.81
123+0.000	5.00	0.00	0.00	0.00	2.04	13.73	527.49	527.49	4030.03	-3502.54
123+10.000	5.00	0.00	0.00	0.00	0.46	12.54	527.49	527.49	4042.57	-3515.08
124+0.000	5.00	0.11	0.57	0.57	0.11	2.88	528.06	528.06	4045.45	-3517.40
124+10.000	5.00	1.73	9.22	9.22	0.00	0.56	537.28	537.28	4046.01	-3508.73
125+0.000	5.00	2.48	21.05	21.05	0.00	0.00	558.33	558.33	4046.01	-3487.68
125+10.000	5.00	1.23	18.57	18.57	0.00	0.00	576.90	576.90	4046.01	-3469.11
126+0.000	5.00	0.33	7.72	7.72	0.00	0.00	584.62	584.62	4046.01	-3461.39
126+10.000	5.00	0.00	1.64	1.64	0.68	3.39	586.26	586.26	4049.40	-3463.14
127+0.000	5.00	0.21	1.05	1.05	0.00	3.42	587.31	587.31	4052.82	-3465.51
127+10.000	5.00	0.76	4.85	4.85	0.00	0.02	592.16	592.16	4052.84	-3460.68
128+0.000	5.00	1.32	10.37	10.37	0.00	0.00	602.53	602.53	4052.84	-3450.31
128+10.000	5.00	0.39	8.53	8.53	0.00	0.00	611.06	611.06	4052.84	-3441.78
129+0.000	5.00	0.03	2.05	2.05	0.34	1.72	613.11	613.11	4054.56	-3441.45
129+10.000	5.00	0.00	0.12	0.12	0.55	4.55	613.23	613.23	4059.11	-3445.88
130+0.000	5.00	0.00	0.00	0.00	0.95	7.59	613.23	613.23	4066.70	-3453.47
130+10.000	5.00	0.00	0.00	0.00	1.54	12.44	613.23	613.23	4079.13	-3465.90
131+0.000	5.00	0.00	0.00	0.00	1.84	16.88	613.23	613.23	4096.01	-3482.78
131+10.000	5.00	0.00	0.00	0.00	1.96	18.98	613.23	613.23	4114.99	-3501.76
132+0.000	5.00	0.00	0.00	0.00	1.95	19.74	613.23	613.23	4134.73	-3521.50
132+10.000	5.00	0.00	0.00	0.00	1.58	17.66	613.23	613.23	4152.40	-3539.17
133+0.000	5.00	0.00	0.00	0.00	1.07	13.23	613.23	613.23	4165.62	-3552.39
133+10.000	5.00	0.03	0.14	0.14	0.40	7.37	613.37	613.37	4173.00	-3559.63
134+0.000	5.00	0.17	0.99	0.99	0.14	2.68	614.36	614.36	4175.68	-3561.32
134+10.000	5.00	0.75	4.59	4.59	0.00	0.69	618.94	618.94	4176.37	-3557.43
135+0.000	5.00	1.60	11.74	11.74	0.00	0.00	630.69	630.69	4176.37	-3545.68
135+10.000	5.00	1.97	18.43	18.43	0.00	0.00	649.11	649.11	4176.37	-3527.26
136+0.000	5.00	0.62	12.95	12.95	0.00	0.00	662.06	662.06	4176.37	-3514.31
136+10.000	5.00	0.61	6.13	6.13	0.00	0.00	668.19	668.19	4176.37	-3508.18
137+0.000	5.00	1.28	9.53	9.53	0.00	0.00	677.72	677.72	4176.37	-3498.65

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
137+10.000	5.00	2.02	16.65	16.65	0.00	0.00	694.37	694.37	4176.37	-3482.00
138+0.000	5.00	1.20	16.10	16.10	0.00	0.00	710.48	710.48	4176.37	-3465.89
138+10.000	5.00	0.76	9.80	9.80	0.00	0.00	720.28	720.28	4176.37	-3456.09
139+0.000	5.00	0.39	5.86	5.86	0.00	0.00	726.13	726.13	4176.37	-3450.24
139+10.000	5.00	0.00	1.95	1.95	2.94	14.56	728.09	728.09	4190.93	-3462.85
140+0.000	5.00	0.00	0.00	0.00	7.67	53.04	728.09	728.09	4243.97	-3515.88
140+10.000	5.00	0.00	0.00	0.00	7.22	74.44	728.09	728.09	4318.41	-3590.32
141+0.000	5.00	0.00	0.00	0.00	3.16	51.89	728.09	728.09	4370.30	-3642.21
141+10.000	5.00	0.31	1.53	1.53	0.00	15.81	729.62	729.62	4386.10	-3656.48
142+0.000	5.00	1.26	7.82	7.82	0.00	0.00	737.44	737.44	4386.10	-3648.66
142+10.000	5.00	1.20	12.27	12.27	0.00	0.00	749.71	749.71	4386.10	-3636.40
143+0.000	5.00	0.98	10.87	10.87	0.00	0.00	760.58	760.58	4386.10	-3625.52
143+10.000	5.00	0.85	9.13	9.13	0.00	0.00	769.71	769.71	4386.10	-3616.39
144+0.000	5.00	0.78	8.13	8.13	0.00	0.00	777.85	777.85	4386.10	-3608.26
144+10.000	5.00	0.67	7.26	7.26	0.00	0.00	785.10	785.10	4386.10	-3601.00
145+0.000	5.00	0.63	6.54	6.54	0.00	0.00	791.64	791.64	4386.10	-3594.46
145+10.000	5.00	0.69	6.63	6.63	0.00	0.00	798.27	798.27	4386.10	-3587.84
146+0.000	5.00	0.54	6.15	6.15	0.00	0.00	804.42	804.42	4386.10	-3581.68
146+10.000	5.00	0.39	4.65	4.65	0.00	0.00	809.07	809.07	4386.10	-3577.03
147+0.000	5.00	0.34	3.63	3.63	0.00	0.00	812.71	812.71	4386.10	-3573.40
147+10.000	5.00	0.34	3.40	3.40	0.00	0.00	816.10	816.10	4386.10	-3570.00
148+0.000	5.00	0.47	4.05	4.05	0.00	0.00	820.16	820.16	4386.10	-3565.95
148+10.000	5.00	0.94	7.02	7.02	0.00	0.00	827.17	827.17	4386.10	-3558.93
149+0.000	5.00	1.37	11.53	11.53	0.00	0.00	838.70	838.70	4386.10	-3547.40
149+10.000	5.00	1.64	15.06	15.06	0.00	0.00	853.76	853.76	4386.10	-3532.34
150+0.000	5.00	2.05	18.47	18.47	0.00	0.00	872.24	872.24	4386.10	-3513.87
150+10.000	5.00	2.72	23.88	23.88	0.00	0.00	896.12	896.12	4386.10	-3489.99
151+0.000	5.00	2.70	27.12	27.12	0.00	0.00	923.23	923.23	4386.10	-3462.87
151+10.000	5.00	1.75	22.22	22.22	0.00	0.00	945.45	945.45	4386.10	-3440.66
152+0.000	5.00	1.48	16.14	16.14	0.00	0.00	961.59	961.59	4386.10	-3424.51
152+10.000	5.00	1.56	15.21	15.21	0.00	0.00	976.80	976.80	4386.10	-3409.31
153+0.000	5.00	1.50	15.30	15.30	0.00	0.00	992.10	992.10	4386.10	-3394.00
153+10.000	5.00	1.39	14.47	14.47	0.00	0.00	1006.57	1006.57	4386.10	-3379.54
154+0.000	5.00	1.53	14.62	14.62	0.00	0.00	1021.19	1021.19	4386.10	-3364.91
154+10.000	5.00	1.78	16.58	16.58	0.00	0.00	1037.77	1037.77	4386.10	-3348.33
155+0.000	5.00	1.59	16.86	16.86	0.00	0.00	1054.63	1054.63	4386.10	-3331.48
155+10.000	5.00	1.51	15.49	15.49	0.00	0.00	1070.12	1070.12	4386.10	-3315.98
156+0.000	5.00	1.19	13.48	13.48	0.00	0.00	1083.60	1083.60	4386.10	-3302.50
156+10.000	5.00	0.70	9.42	9.42	0.00	0.00	1093.02	1093.02	4386.10	-3293.09
157+0.000	5.00	0.00	3.52	3.52	0.58	2.92	1096.54	1096.54	4389.02	-3292.48
157+10.000	5.00	0.00	0.03	0.03	0.75	6.80	1096.57	1096.57	4395.82	-3299.25
158+0.000	5.00	0.00	0.00	0.00	1.59	11.70	1096.57	1096.57	4407.52	-3310.95
158+10.000	5.00	0.00	0.00	0.00	0.54	10.66	1096.58	1096.58	4418.18	-3321.60
159+0.000	5.00	0.00	0.00	0.00	0.64	5.99	1096.58	1096.58	4424.17	-3327.59
159+10.000	5.00	0.25	1.23	1.23	0.00	3.20	1097.81	1097.81	4427.37	-3329.56
160+0.000	5.00	0.54	3.91	3.91	0.00	0.00	1101.72	1101.72	4427.38	-3325.66

Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
160+10.000	5.00	1.36	9.46	9.46	0.00	0.00	1111.19	1111.19	4427.38	-3316.20
161+0.000	5.00	0.61	9.84	9.84	0.00	0.00	1121.03	1121.03	4427.38	-3306.35
161+10.000	5.00	0.11	3.62	3.62	0.11	0.56	1124.65	1124.65	4427.94	-3303.29
162+0.000	5.00	0.05	0.78	0.78	0.50	3.15	1125.43	1125.43	4431.09	-3305.66
162+10.000	5.00	0.07	0.63	0.63	0.70	5.99	1126.06	1126.06	4437.08	-3311.03
163+0.000	5.00	0.02	0.46	0.46	0.16	4.31	1126.52	1126.52	4441.39	-3314.87
163+10.000	5.00	0.00	0.11	0.11	0.25	2.07	1126.63	1126.63	4443.46	-3316.84
164+0.000	5.00	0.00	0.01	0.01	0.26	2.54	1126.64	1126.64	4446.01	-3319.37
164+10.000	5.00	0.04	0.18	0.18	0.06	1.60	1126.82	1126.82	4447.61	-3320.78
165+0.000	5.00	0.15	0.97	0.97	0.02	0.41	1127.80	1127.80	4448.02	-3320.22
165+10.000	5.00	0.20	1.75	1.75	0.00	0.15	1129.55	1129.55	4448.17	-3318.63
166+0.000	5.00	0.31	2.55	2.55	0.00	0.04	1132.10	1132.10	4448.21	-3316.12
166+10.000	5.00	0.25	2.79	2.79	0.03	0.13	1134.88	1134.88	4448.34	-3313.46
167+0.000	5.00	0.43	3.38	3.38	0.00	0.13	1138.27	1138.27	4448.47	-3310.20
167+10.000	5.00	0.00	2.15	2.15	0.31	1.53	1140.42	1140.42	4450.00	-3309.58
168+0.000	5.00	0.00	0.00	0.00	1.37	8.40	1140.42	1140.42	4458.40	-3317.99
168+10.000	5.00	0.00	0.00	0.00	1.63	15.00	1140.42	1140.42	4473.40	-3332.99
169+0.000	5.00	0.00	0.00	0.00	1.79	17.06	1140.42	1140.42	4490.46	-3350.05
169+10.000	5.00	0.00	0.00	0.00	2.14	19.62	1140.42	1140.42	4510.08	-3369.66
170+0.000	5.00	0.00	0.00	0.00	1.81	19.74	1140.42	1140.42	4529.82	-3389.40
170+10.000	5.00	0.00	0.00	0.00	2.26	20.33	1140.42	1140.42	4550.15	-3409.74
171+0.000	5.00	0.00	0.00	0.00	1.91	20.88	1140.42	1140.42	4571.03	-3430.61
171+10.000	5.00	0.00	0.00	0.00	1.91	19.11	1140.42	1140.42	4590.14	-3449.72
172+0.000	5.00	0.00	0.00	0.00	0.83	13.70	1140.42	1140.42	4603.84	-3463.42
172+10.000	5.00	0.24	1.19	1.19	0.01	4.20	1141.61	1141.61	4608.04	-3466.43
173+0.000	5.00	0.86	5.48	5.48	0.00	0.07	1147.09	1147.09	4608.11	-3461.02
173+10.000	5.00	1.69	12.76	12.76	0.00	0.00	1159.85	1159.85	4608.11	-3448.26
174+0.000	5.00	0.95	13.23	13.23	0.00	0.00	1173.08	1173.08	4608.11	-3435.03
174+10.000	5.00	0.67	8.10	8.10	0.00	0.00	1181.18	1181.18	4608.11	-3426.93
175+0.000	5.00	0.51	5.86	5.86	0.00	0.00	1187.04	1187.04	4608.11	-3421.07
175+10.000	5.00	0.72	6.13	6.13	0.00	0.00	1193.18	1193.18	4608.11	-3414.94
176+0.000	5.00	1.30	10.09	10.09	0.00	0.00	1203.26	1203.26	4608.11	-3404.85
176+10.000	5.00	1.32	13.09	13.09	0.00	0.00	1216.36	1216.36	4608.11	-3391.76
177+0.000	5.00	0.67	9.93	9.93	0.00	0.00	1226.29	1226.29	4608.11	-3381.82
177+10.000	5.00	0.43	5.50	5.50	0.00	0.00	1231.78	1231.78	4608.11	-3376.33
178+0.000	5.00	0.86	6.48	6.48	0.00	0.00	1238.26	1238.26	4608.11	-3369.85
178+10.000	5.00	1.09	9.78	9.78	0.00	0.00	1248.05	1248.05	4608.11	-3360.07
179+0.000	5.00	0.92	10.17	10.17	0.00	0.00	1258.22	1258.22	4608.11	-3349.89
179+10.000	5.00	0.55	7.33	7.33	0.00	0.00	1265.55	1265.55	4608.11	-3342.56
180+0.000	5.00	0.12	3.37	3.37	0.03	0.15	1268.92	1268.92	4608.26	-3339.34
180+10.000	5.00	0.11	1.15	1.15	0.13	0.82	1270.07	1270.07	4609.07	-3339.00
181+0.000	5.00	0.24	1.73	1.73	0.03	0.81	1271.80	1271.80	4609.89	-3338.09
181+10.000	5.00	0.07	1.53	1.53	0.07	0.49	1273.33	1273.33	4610.38	-3337.05
182+0.000	5.00	0.03	0.46	0.46	0.25	1.59	1273.80	1273.80	4611.97	-3338.17
182+10.000	5.00	0.30	1.64	1.64	0.31	2.77	1275.43	1275.43	4614.74	-3339.31
183+0.000	5.00	0.38	3.39	3.39	0.06	1.81	1278.82	1278.82	4616.55	-3337.73


Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
183+10.000	5.00	0.31	3.45	3.45	0.00	0.28	1282.27	1282.27	4616.82	-3334.56
184+0.000	5.00	0.52	4.18	4.18	0.00	0.00	1286.44	1286.44	4616.82	-3330.38
184+10.000	5.00	0.66	5.92	5.92	0.00	0.00	1292.36	1292.36	4616.82	-3324.46
185+0.000	5.00	0.52	5.92	5.92	0.00	0.00	1298.28	1298.28	4616.82	-3318.54
185+10.000	5.00	0.60	5.58	5.58	0.00	0.00	1303.87	1303.87	4616.82	-3312.95
186+0.000	5.00	0.44	5.16	5.16	0.02	0.09	1309.03	1309.03	4616.91	-3307.88
186+10.000	5.00	0.23	3.33	3.33	0.04	0.27	1312.35	1312.35	4617.18	-3304.83
187+0.000	5.00	0.13	1.78	1.78	0.03	0.34	1314.13	1314.13	4617.52	-3303.39
187+10.000	5.00	0.15	1.37	1.37	0.02	0.27	1315.50	1315.50	4617.79	-3302.29
188+0.000	5.00	0.31	2.30	2.30	0.00	0.11	1317.80	1317.80	4617.91	-3300.10
188+10.000	5.00	0.51	4.13	4.13	0.00	0.00	1321.93	1321.93	4617.91	-3295.98
189+0.000	5.00	0.17	3.38	3.38	0.04	0.22	1325.31	1325.31	4618.13	-3292.82
189+10.000	5.00	0.07	1.16	1.16	0.17	1.08	1326.47	1326.47	4619.21	-3292.74
190+0.000	5.00	0.02	0.41	0.41	0.13	1.52	1326.88	1326.88	4620.73	-3293.85
190+10.000	5.00	0.00	0.08	0.08	0.54	3.36	1326.96	1326.96	4624.09	-3297.13
191+0.000	5.00	0.00	0.00	0.00	0.68	6.09	1326.96	1326.96	4630.19	-3303.22
191+10.000	5.00	0.00	0.00	0.00	0.82	7.47	1326.96	1326.96	4637.65	-3310.69
192+0.000	5.00	0.00	0.00	0.00	0.92	8.69	1326.96	1326.96	4646.35	-3319.38
192+10.000	5.00	0.01	0.05	0.05	0.60	7.63	1327.01	1327.01	4653.97	-3326.96
193+0.000	5.00	0.03	0.19	0.19	0.61	6.07	1327.20	1327.20	4660.05	-3332.84
193+10.000	5.00	0.00	0.14	0.14	0.93	7.70	1327.34	1327.34	4667.75	-3340.41
194+0.000	5.00	0.00	0.00	0.00	0.64	7.84	1327.34	1327.34	4675.59	-3348.25
194+10.000	5.00	0.00	0.00	0.00	0.39	5.14	1327.34	1327.34	4680.74	-3353.39
195+0.000	5.00	0.00	0.01	0.01	0.20	2.97	1327.36	1327.36	4683.70	-3356.35
195+10.000	5.00	0.00	0.02	0.02	0.21	2.07	1327.38	1327.38	4685.78	-3358.40
196+0.000	5.00	0.02	0.13	0.13	0.11	1.62	1327.51	1327.51	4687.40	-3359.89
196+10.000	5.00	0.04	0.33	0.33	0.08	0.98	1327.84	1327.84	4688.38	-3360.54
197+0.000	5.00	0.26	1.53	1.53	0.00	0.41	1329.36	1329.36	4688.79	-3359.43
197+10.000	5.00	0.64	4.52	4.52	0.00	0.00	1333.88	1333.88	4688.79	-3354.91
198+0.000	5.00	1.59	11.20	11.20	0.00	0.00	1345.08	1345.08	4688.79	-3343.72
198+10.000	5.00	1.99	17.92	17.92	0.00	0.00	1363.00	1363.00	4688.79	-3325.79
199+0.000	5.00	1.14	15.67	15.67	0.00	0.00	1378.68	1378.68	4688.79	-3310.12
199+10.000	5.00	0.92	10.20	10.20	0.00	0.00	1388.88	1388.88	4688.79	-3299.92
200+0.000	5.00	0.58	7.50	7.50	0.00	0.04	1396.38	1396.38	4688.83	-3292.45
200+10.000	5.00	0.61	5.92	5.92	0.00	0.04	1402.30	1402.30	4688.87	-3286.57
201+0.000	5.00	1.58	10.94	10.94	0.00	0.00	1413.24	1413.24	4688.87	-3275.63
201+10.000	5.00	1.87	17.28	17.28	0.00	0.00	1430.52	1430.52	4688.87	-3258.35
202+0.000	5.00	1.93	19.03	19.03	0.00	0.00	1449.55	1449.55	4688.87	-3239.32
202+10.000	5.00	1.00	14.65	14.65	0.00	0.00	1464.19	1464.19	4688.87	-3224.68
203+0.000	5.00	0.20	6.03	6.03	0.01	0.05	1470.23	1470.23	4688.92	-3218.69
203+10.000	5.00	0.20	1.99	1.99	0.01	0.11	1472.22	1472.22	4689.03	-3216.81
204+0.000	5.00	0.55	3.74	3.74	0.00	0.06	1475.96	1475.96	4689.09	-3213.13
204+10.000	5.00	1.35	9.54	9.54	0.00	0.00	1485.50	1485.50	4689.09	-3203.59
205+0.000	5.00	1.32	13.38	13.38	0.00	0.00	1498.88	1498.88	4689.09	-3190.21
205+10.000	5.00	0.45	8.87	8.87	0.00	0.00	1507.75	1507.75	4689.09	-3181.33
206+0.000	5.00	1.35	8.84	8.84	0.00	0.00	1516.60	1516.60	4689.09	-3172.49


 JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53060 - CE


Relatório de Volumes

ESTRADA PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 208+13.063

<u>Estaca</u>	<u>Semi</u> <u>Distância</u> <u>(m)</u>	<u>Área de</u> <u>Corte</u> <u>(m²)</u>	<u>Volume</u> <u>de</u> <u>Corte</u> <u>(m³)</u>	<u>Vol.</u> <u>Reuso</u> <u>(m³)</u>	<u>Área de</u> <u>Aterro</u> <u>(m²)</u>	<u>Volume</u> <u>Aterro</u> <u>(m³)</u>	<u>Vol.</u> <u>Acum.</u> <u>Corte</u> <u>(m³)</u>	<u>Vol.</u> <u>Reuso</u> <u>Acum.</u> <u>(m³)</u>	<u>Vol.</u> <u>Acum.</u> <u>Aterro</u> <u>(m³)</u>	<u>Dif. Vol.</u> <u>Acum.</u> <u>(m³)</u>
206+10.000	5.00	1.29	13.81	13.81	0.00	0.00	1530.41	1530.41	4689.09	-3158.68
207+0.000	5.00	0.00	6.45	6.45	1.52	7.61	1536.86	1536.86	4696.70	-3159.84
207+10.000	5.00	0.00	0.00	0.00	2.21	18.68	1536.86	1536.86	4715.38	-3178.52
208+0.000	5.00	0.02	0.10	0.10	2.29	22.92	1536.96	1536.96	4738.30	-3201.34
208+10.000	5.00	0.86	4.43	4.43	0.00	11.46	1541.39	1541.39	4749.75	-3208.36
208+13.063	1.53	0.29	1.77	1.77	0.00	0.00	1543.16	1543.16	4749.75	-3206.60


JOYABARROS PROJETOS
Arthur Moreira Torquato
Engº Civil - CREA 539000 - CE

Relatório de Volumes

SÍTIO VALENTIM A PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 66+17.141

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
0+0.000	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+10.000	5.00	1.43	15.53	15.53	0.00	0.00	15.53	15.53	0.00	15.53
1+0.000	5.00	0.56	9.97	9.97	0.00	0.00	25.50	25.50	0.00	25.50
1+10.000	5.00	0.91	7.34	7.34	0.00	0.00	32.84	32.84	0.00	32.84
2+0.000	5.00	1.15	10.29	10.29	0.00	0.00	43.13	43.13	0.00	43.13
2+10.000	5.00	1.18	11.66	11.66	0.00	0.00	54.79	54.79	0.00	54.79
3+0.000	5.00	0.81	9.93	9.93	0.00	0.00	64.72	64.72	0.00	64.72
3+10.000	5.00	0.00	4.03	4.03	1.00	4.98	68.75	68.75	4.98	63.77
4+0.000	5.00	0.00	0.00	0.00	1.43	12.15	68.75	68.75	17.12	51.62
4+10.000	5.00	0.00	0.00	0.00	0.47	9.53	68.75	68.75	26.65	42.09
5+0.000	5.00	0.20	0.98	0.98	0.02	2.45	69.72	69.72	29.10	40.62
5+10.000	5.00	0.92	5.49	5.49	0.00	0.10	75.22	75.22	29.20	46.01
6+0.000	5.00	0.00	4.54	4.54	0.20	0.97	79.76	79.76	30.17	49.59
6+10.000	5.00	0.06	0.33	0.33	0.07	1.31	80.09	80.09	31.48	48.61
7+0.000	5.00	0.00	0.32	0.32	1.06	5.66	80.41	80.41	37.14	43.27
7+10.000	5.00	0.00	0.00	0.00	6.01	35.41	80.41	80.41	72.55	7.86
8+0.000	5.00	0.00	0.00	0.00	9.74	78.76	80.41	80.41	151.31	-70.90
8+10.000	5.00	0.00	0.00	0.00	12.54	111.41	80.41	80.41	262.72	-182.31
9+0.000	5.00	0.00	0.00	0.00	11.82	121.83	80.41	80.41	384.55	-304.14
9+10.000	5.00	0.00	0.00	0.00	10.64	112.31	80.41	80.41	496.86	-416.45
10+0.000	5.00	0.00	0.00	0.00	10.37	105.00	80.41	80.41	601.86	-521.45
10+10.000	5.00	0.00	0.00	0.00	12.95	116.68	80.41	80.41	718.54	-638.13
11+0.000	5.00	0.00	0.00	0.00	16.66	148.23	80.41	80.41	866.77	-786.36
11+10.000	5.00	0.00	0.00	0.00	13.91	152.90	80.41	80.41	1019.67	-939.26
12+0.000	5.00	0.00	0.00	0.00	12.17	130.36	80.41	80.41	1150.03	-1069.62
12+10.000	5.00	0.00	0.00	0.00	10.17	111.72	80.41	80.41	1261.75	-1181.34
13+0.000	5.00	0.00	0.00	0.00	6.40	82.84	80.41	80.41	1344.60	-1264.19
13+10.000	5.00	0.00	0.00	0.00	3.88	51.40	80.41	80.41	1396.00	-1315.59
14+0.000	5.00	0.00	0.00	0.00	1.60	27.40	80.41	80.41	1423.40	-1342.99
14+10.000	5.00	0.00	0.00	0.00	0.64	11.27	80.41	80.41	1434.67	-1354.26
15+0.000	5.00	0.34	1.73	1.73	0.00	3.29	82.14	82.14	1437.95	-1355.81
15+10.000	5.00	1.40	8.67	8.67	0.00	0.04	90.81	90.81	1437.99	-1347.18
16+0.000	5.00	0.85	11.23	11.23	0.01	0.07	102.04	102.04	1438.06	-1336.02
16+10.000	5.00	0.64	7.53	7.53	0.00	0.07	109.57	109.57	1438.13	-1328.56
17+0.000	5.00	0.13	3.87	3.87	0.18	0.92	113.44	113.44	1439.06	-1325.62
17+10.000	5.00	0.96	5.45	5.45	0.00	0.90	118.89	118.89	1439.95	-1321.06
18+0.000	5.00	0.21	5.83	5.83	0.26	1.31	124.72	124.72	1441.26	-1316.54
18+10.000	5.00	0.00	1.05	1.05	0.23	2.47	125.78	125.78	1443.73	-1317.95
19+0.000	5.00	0.00	0.00	0.00	0.58	4.08	125.79	125.79	1447.81	-1322.02
19+10.000	5.00	0.00	0.00	0.00	0.63	6.05	125.79	125.79	1453.86	-1328.08
20+0.000	5.00	0.00	0.00	0.00	0.58	6.02	125.79	125.79	1459.88	-1334.10
20+10.000	5.00	0.34	1.70	1.70	0.00	2.89	127.48	127.48	1462.77	-1335.29
21+0.000	5.00	0.94	6.39	6.39	0.00	0.00	133.87	133.87	1462.77	-1328.90
21+10.000	5.00	0.71	8.25	8.25	0.00	0.00	142.12	142.12	1462.77	-1320.65
22+0.000	5.00	0.65	6.78	6.78	0.00	0.00	148.91	148.91	1462.77	-1313.86

Relatório de Volumes

SÍTIO VALENTIM A PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 66+17.141

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
22+10.000	5.00	0.44	5.57	5.57	0.00	0.00	154.48	154.48	1462.77	-1308.29
23+0.000	5.00	1.44	9.48	9.48	0.00	0.00	163.95	163.95	1462.77	-1298.82
23+10.000	5.00	0.47	9.57	9.57	0.00	0.00	173.52	173.52	1462.77	-1289.25
24+0.000	5.00	0.00	2.37	2.37	1.37	6.87	175.89	175.89	1469.64	-1293.75
24+10.000	5.00	0.00	0.00	0.00	1.40	13.87	175.89	175.89	1483.51	-1307.62
25+0.000	5.00	0.00	0.00	0.00	1.18	12.89	175.89	175.89	1496.40	-1320.51
25+10.000	5.00	0.00	0.00	0.00	0.84	10.11	175.89	175.89	1506.51	-1330.62
26+0.000	5.00	0.00	0.00	0.00	0.37	6.04	175.89	175.89	1512.55	-1336.66
26+10.000	5.00	0.06	0.33	0.33	0.07	2.20	176.22	176.22	1514.75	-1338.52
27+0.000	5.00	0.32	1.92	1.92	0.00	0.37	178.14	178.14	1515.12	-1336.98
27+10.000	5.00	0.04	1.82	1.82	0.10	0.52	179.97	179.97	1515.64	-1335.67
28+0.000	5.00	0.00	0.22	0.22	1.96	10.32	180.19	180.19	1525.96	-1345.77
28+10.000	5.00	0.00	0.00	0.00	1.45	17.05	180.19	180.19	1543.01	-1362.82
29+0.000	5.00	0.00	0.00	0.00	1.38	14.16	180.19	180.19	1557.17	-1376.98
29+10.000	5.00	0.00	0.00	0.00	7.95	46.64	180.19	180.19	1603.81	-1423.62
30+0.000	5.00	0.00	0.00	0.00	15.30	116.22	180.19	180.19	1720.02	-1539.83
30+10.000	5.00	0.00	0.00	0.00	19.00	171.49	180.19	180.19	1891.51	-1711.33
31+0.000	5.00	0.00	0.00	0.00	16.31	176.48	180.19	180.19	2067.99	-1887.81
31+10.000	5.00	0.00	0.00	0.00	8.10	121.82	180.19	180.19	2189.81	-2009.62
32+0.000	5.00	0.00	0.00	0.00	2.26	51.78	180.19	180.19	2241.59	-2061.41
32+10.000	5.00	0.00	0.00	0.00	0.84	15.49	180.19	180.19	2257.08	-2076.89
33+0.000	5.00	0.03	0.17	0.17	0.45	6.47	180.35	180.35	2263.55	-2083.20
33+10.000	5.00	0.19	1.13	1.13	0.02	2.37	181.48	181.48	2265.92	-2084.44
34+0.000	5.00	0.16	1.75	1.75	0.02	0.22	183.24	183.24	2266.14	-2082.90
34+10.000	5.00	0.00	0.79	0.79	1.89	9.55	184.02	184.02	2275.69	-2091.67
35+0.000	5.00	0.00	0.00	0.00	2.79	23.38	184.02	184.02	2299.07	-2115.05
35+10.000	5.00	0.01	0.06	0.06	0.80	17.95	184.08	184.08	2317.02	-2132.94
36+0.000	5.00	0.59	3.02	3.02	0.00	4.00	187.10	187.10	2321.03	-2133.93
36+10.000	5.00	1.62	11.03	11.03	0.00	0.00	198.13	198.13	2321.03	-2122.90
37+0.000	5.00	1.76	16.91	16.91	0.00	0.00	215.04	215.04	2321.03	-2105.99
37+10.000	5.00	1.51	16.37	16.37	0.00	0.00	231.42	231.42	2321.03	-2089.61
38+0.000	5.00	1.30	14.04	14.04	0.00	0.00	245.46	245.46	2321.03	-2075.57
38+10.000	5.00	1.27	12.82	12.82	0.00	0.00	258.27	258.27	2321.03	-2062.75
39+0.000	5.00	0.90	10.88	10.88	0.00	0.00	269.16	269.16	2321.03	-2051.87
39+10.000	5.00	0.84	8.70	8.70	0.00	0.00	277.86	277.86	2321.03	-2043.17
40+0.000	5.00	0.17	5.07	5.07	0.02	0.08	282.93	282.93	2321.10	-2038.17
40+10.000	5.00	0.00	0.89	0.89	2.71	13.67	283.83	283.83	2334.77	-2050.95
41+0.000	5.00	0.00	0.00	0.00	4.69	37.08	283.83	283.83	2371.86	-2088.03
41+10.000	5.00	0.00	0.00	0.00	7.31	59.99	283.83	283.83	2431.85	-2148.02
42+0.000	5.00	0.00	0.00	0.00	9.04	81.75	283.83	283.83	2513.60	-2229.78
42+10.000	5.00	0.00	0.00	0.00	11.05	100.44	283.83	283.83	2614.04	-2330.22
43+0.000	5.00	0.00	0.00	0.00	12.30	116.78	283.83	283.83	2730.82	-2447.00
43+10.000	5.00	0.00	0.00	0.00	8.38	103.39	283.83	283.83	2834.21	-2550.39
44+0.000	5.00	0.00	0.00	0.00	3.79	60.83	283.83	283.83	2895.05	-2611.22
44+10.000	5.00	0.00	0.00	0.00	1.59	26.91	283.83	283.83	2921.96	-2638.13
45+0.000	5.00	0.54	2.69	2.69	0.00	7.98	286.52	286.52	2929.94	-2643.42

Relatório de Volumes

SÍTIO VALENTIM A PEDRA FINA

Estaca Inicial: 0+0.000

Estaca Final: 66+17.141

<u>Estaca</u>	<u>Semi Distância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Vol. Reuso (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Reuso Acum. (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Dif. Vol. Acum. (m³)</u>
45+10.000	5.00	1.98	12.81	12.81	0.00	0.00	299.33	299.33	2929.94	-2630.60
46+0.000	5.00	0.57	12.82	12.82	0.00	0.00	312.15	312.15	2929.94	-2617.79
46+10.000	5.00	0.75	6.57	6.57	0.00	0.00	318.72	318.72	2929.94	-2611.21
47+0.000	5.00	1.37	10.67	10.67	0.00	0.00	329.39	329.39	2929.94	-2600.55
47+10.000	5.00	0.20	8.03	8.03	0.00	0.00	337.42	337.42	2929.94	-2592.52
48+0.000	5.00	0.00	1.04	1.04	1.38	6.90	338.46	338.46	2936.83	-2598.37
48+10.000	5.00	0.00	0.00	0.00	0.85	11.14	338.46	338.46	2947.97	-2609.51
49+0.000	5.00	0.00	0.00	0.00	0.92	8.85	338.46	338.46	2956.82	-2618.36
49+10.000	5.00	0.00	0.00	0.00	0.38	6.49	338.46	338.46	2963.31	-2624.85
50+0.000	5.00	0.07	0.36	0.36	0.07	2.21	338.82	338.82	2965.52	-2626.70
50+10.000	5.00	0.00	0.36	0.36	0.44	2.53	339.18	339.18	2968.06	-2628.88
51+0.000	5.00	0.00	0.00	0.00	1.04	7.42	339.18	339.18	2975.48	-2636.30
51+10.000	5.00	0.00	0.00	0.00	0.29	6.68	339.18	339.18	2982.16	-2642.98
52+0.000	5.00	1.32	6.60	6.60	0.00	1.46	345.78	345.78	2983.62	-2637.84
52+10.000	5.00	0.72	10.18	10.18	0.00	0.00	355.96	355.96	2983.62	-2627.66
53+0.000	5.00	0.54	6.27	6.27	0.00	0.00	362.22	362.22	2983.62	-2621.39
53+10.000	5.00	0.92	7.28	7.28	0.00	0.00	369.50	369.50	2983.62	-2614.11
54+0.000	5.00	1.81	13.62	13.62	0.00	0.00	383.12	383.12	2983.62	-2600.50
54+10.000	5.00	0.68	12.40	12.40	0.00	0.00	395.52	395.52	2983.62	-2588.10
55+0.000	5.00	0.00	3.38	3.38	1.67	8.34	398.90	398.90	2991.96	-2593.06
55+10.000	5.00	0.01	0.07	0.07	0.14	9.06	398.97	398.97	3001.02	-2602.05
56+0.000	5.00	0.47	2.45	2.45	0.00	0.72	401.41	401.41	3001.74	-2600.32
56+10.000	5.00	0.70	5.88	5.88	0.00	0.00	407.29	407.29	3001.74	-2594.44
57+0.000	5.00	0.30	5.01	5.01	0.00	0.00	412.30	412.30	3001.74	-2589.43
57+10.000	5.00	0.37	3.37	3.37	0.00	0.00	415.67	415.67	3001.74	-2586.07
58+0.000	5.00	0.02	1.95	1.95	0.12	0.60	417.62	417.62	3002.33	-2584.71
58+10.000	5.00	0.00	0.08	0.08	2.42	12.71	417.70	417.70	3015.04	-2597.35
59+0.000	5.00	0.00	0.00	0.00	5.37	38.95	417.70	417.70	3054.00	-2636.30
59+10.000	5.00	0.00	0.00	0.00	8.28	68.26	417.70	417.70	3122.26	-2704.56
60+0.000	5.00	0.00	0.00	0.00	10.75	95.18	417.70	417.70	3217.43	-2799.73
60+10.000	5.00	0.00	0.00	0.00	13.14	119.44	417.70	417.70	3336.87	-2919.17
61+0.000	5.00	0.00	0.00	0.00	15.02	141.04	417.70	417.70	3477.91	-3060.21
61+10.000	5.00	0.00	0.00	0.00	12.21	136.16	417.70	417.70	3614.08	-3196.38
62+0.000	5.00	0.00	0.00	0.00	10.17	111.87	417.70	417.70	3725.94	-3308.24
62+10.000	5.00	0.00	0.00	0.00	8.12	91.43	417.70	417.70	3817.38	-3399.68
63+0.000	5.00	0.00	0.00	0.00	5.58	68.49	417.70	417.70	3885.87	-3468.17
63+10.000	5.00	0.00	0.00	0.00	4.22	48.97	417.70	417.70	3934.84	-3517.14
64+0.000	5.00	0.00	0.00	0.00	0.78	24.97	417.70	417.70	3959.80	-3542.10
64+10.000	5.00	0.68	3.38	3.38	0.00	3.88	421.08	421.08	3963.69	-3542.61
65+0.000	5.00	1.06	8.62	8.62	0.00	0.00	429.70	429.70	3963.69	-3533.99
65+10.000	5.00	0.49	7.34	7.34	0.11	0.58	437.04	437.04	3964.26	-3527.22
66+0.000	5.00	0.40	4.03	4.03	0.22	1.71	441.07	441.07	3965.98	-3524.91
66+10.000	5.00	1.45	9.15	9.15	0.00	1.11	450.21	450.21	3967.09	-3516.88
66+17.141	3.57	0.43	6.71	6.71	0.00	0.00	456.92	456.92	3967.09	-3510.16