

TRABAJO FINAL DE GRADO

‘PROYECTO DE REMODELACIÓN DE LA CARRETERA AB-519 ENTRE LOS TÉRMINOS
MUNICIPALES DE CASAS DE LÁZARO Y PEÑARRUBIA (PROVINCIA DE ALBACETE)’

Documento 3 de 6

MOVIMIENTO DE TIERRAS

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Titulación Grado en Ingeniería de Obras Públicas

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Especialidad Construcciones Civiles

Abril 2015



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

ESCUELA TÉCNICA SUPERIOR
DE INGENIEROS DE CAMINOS,
CANALES Y PUERTOS



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0+000.000	8.21	0.00	0	3.29	0	0.00	0.00	0	0	0
0+004.986	7.33	38.76	31.01	4.58	19.624	38.76	16.02	31.01	19.62	11.38
0+020.000	5.39	95.13	76.10	7.81	93.400	133.89	65.53	107.11	113.02	-5.91
0+040.000	6.30	115.58	92.46	9.51	175.549	249.47	135.06	199.58	288.57	-89.00
0+054.305	6.89	92.43	73.94	8.59	132.464	341.90	186.94	273.52	421.04	-147.52
0+060.000	6.90	38.28	30.62	8.36	49.598	380.18	207.74	304.14	470.63	-166.49
0+080.000	8.29	147.80	118.24	5.32	140.662	527.98	279.37	422.38	611.30	-188.91
0+093.609	9.30	116.13	92.90	3.07	58.747	644.11	326.18	515.29	670.04	-154.76
0+100.000	9.30	57.65	46.12	2.24	17.472	701.76	347.32	561.41	687.52	-126.12
0+120.000	4.80	137.50	110.00	10.04	125.967	839.26	415.54	671.41	813.49	-142.08
0+132.912	2.83	49.01	39.21	16.42	174.306	888.27	459.68	710.62	987.79	-277.17
0+140.000	2.87	20.45	16.36	16.59	118.978	908.72	482.29	726.98	1106.78	-379.80
0+160.000	3.95	68.13	54.50	9.38	263.019	976.85	546.18	781.48	1369.79	-588.31
0+180.000	7.42	113.06	90.45	2.78	122.239	1089.91	610.18	871.93	1492.03	-620.11
0+182.231	6.78	15.85	12.68	3.03	6.472	1105.76	617.14	884.61	1498.51	-613.90
0+200.000	4.65	101.56	81.25	5.29	73.876	1207.31	672.31	965.85	1572.38	-606.53
0+220.000	3.93	85.74	68.59	8.01	132.915	1293.05	735.06	1034.44	1705.30	-670.86
0+240.000	4.73	86.55	69.24	6.50	145.058	1379.60	798.76	1103.68	1850.35	-746.67
0+260.000	6.39	111.15	88.92	37.45	439.560	1490.75	897.18	1192.60	2289.91	-1097.31
0+280.000	3.40	97.84	78.27	17.81	552.683	1588.59	998.54	1270.87	2842.60	-1571.73
0+300.000	2.72	61.21	48.97	13.33	311.407	1649.80	1061.51	1319.84	3154.00	-1834.16
0+301.712	2.70	4.64	3.71	12.88	22.426	1654.44	1066.29	1323.55	3176.43	-1852.88
0+320.000	2.45	47.04	37.63	8.42	194.447	1701.48	1091.67	1361.18	3370.88	-2009.69
0+340.000	3.26	57.15	45.72	5.25	136.092	1758.63	1121.39	1406.90	3506.97	-2100.07
0+360.000	2.37	56.42	45.14	7.30	124.691	1815.05	1176.73	1452.04	3631.66	-2179.62
0+364.408	2.38	10.42	8.34	7.55	32.493	1825.47	1188.05	1460.38	3664.15	-2203.78
0+372.245	2.26	18.11	14.49	5.90	52.317	1843.58	1207.77	1474.86	3716.46	-2241.60
0+380.000	3.44	22.30	17.84	2.34	31.675	1865.89	1228.29	1492.71	3748.14	-2255.43
0+380.082	3.45	0.28	0.22	2.31	0.192	1866.17	1228.52	1492.94	3748.33	-2255.39
0+400.000	8.45	119.77	95.82	0.03	22.952	1985.94	1289.46	1588.75	3771.28	-2182.53
0+420.000	10.74	193.06	154.45	0.03	0.559	2179.00	1356.07	1743.20	3771.85	-2028.65
0+440.000	9.25	200.54	160.43	0.59	6.213	2379.54	1424.23	1903.63	3778.06	-1874.43
0+442.779	8.20	24.24	19.39	0.23	1.143	2403.78	1432.90	1923.02	3779.20	-1856.17
0+460.000	5.72	119.86	95.89	1.81	17.547	2523.65	1481.66	2018.92	3796.75	-1777.83
0+480.000	4.12	98.40	78.72	3.10	49.139	2622.05	1538.65	2097.64	3845.89	-1748.25
0+500.000	3.47	75.91	60.73	4.50	76.069	2697.97	1595.50	2158.38	3921.96	-1763.58
0+520.000	3.00	64.71	51.77	5.95	104.575	2762.67	1652.48	2210.14	4026.53	-1816.39
0+540.000	2.44	54.46	43.57	9.17	151.204	2817.13	1706.14	2253.70	4177.73	-1924.03
0+560.000	2.67	51.15	40.92	13.48	226.398	2868.28	1758.75	2294.62	4404.14	-2109.51
0+580.000	2.70	53.72	42.98	14.33	278.022	2921.99	1814.01	2337.59	4682.16	-2344.57
0+600.000	2.40	51.03	40.82	8.63	229.609	2973.02	1866.49	2378.42	4911.77	-2533.35
0+620.000	2.33	47.37	37.90	7.48	161.104	3020.39	1915.22	2416.31	5072.87	-2656.56
0+640.000	2.16	44.94	35.95	4.74	122.173	3065.32	1961.54	2452.26	5195.04	-2742.79
0+660.000	6.20	83.62	66.90	0.35	50.857	3148.94	2016.61	2519.15	5245.90	-2726.75
0+680.000	15.54	217.38	173.90	0.00	3.461	3366.32	2083.45	2693.06	5249.36	-2556.31
0+700.000	24.44	399.74	319.79	0.00	0.000	3766.06	2153.44	3012.85	5249.36	-2236.51
0+720.000	0.04	244.80	195.84	0.03	0.342	4010.86	2189.78	3208.69	5249.70	-2041.02
0+737.177	0.51	4.73	3.78	0.00	0.350	4015.59	2191.87	3212.47	5250.06	-2037.58
0+740.000	3.55	5.73	4.58	0.01	0.025	4021.32	2196.95	3217.06	5250.08	-2033.02
0+760.000	5.52	90.87	72.70	0.02	0.267	4112.19	2231.87	3289.75	5250.34	-1960.59
0+780.000	6.50	120.87	96.70	0.09	1.051	4233.06	2314.54	3386.45	5251.39	-1864.94
0+788.219	13.54	82.81	66.25	0.01	0.409	4315.87	2362.57	3452.70	5251.80	-1799.10
0+800.000	23.16	217.04	173.63	0.00	0.067	4532.91	2403.34	3626.33	5251.86	-1625.53
0+820.000	39.90	632.66	506.13	0.00	0.000	5165.57	2478.57	4132.46	5251.86	-1119.40
0+840.000	50.00	902.36	721.89	0.00	0.000	6067.93	2559.79	4854.34	5251.86	-397.51
0+843.842	50.58	194.02	155.22	0.00	0.000	6261.95	2575.85	5009.56	5251.86	-242.30
0+860.000	6.86	467.01	373.61	0.00	0.000	6728.96	2618.12	5383.17	5251.86	131.31
0+880.000	44.96	521.82	417.46	0.00	0.000	7250.77	2669.51	5800.62	5251.86	548.76
0+899.465	35.52	786.77	629.42	0.00	0.000	8037.55	2747.02	6430.04	5251.86	1178.18

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0+900.000	35.24	18.93	15.14	0.00	0.000	8056.47	2749.09	6445.18	5251.86	1193.32
0+920.000	24.37	598.62	478.90	0.00	0.000	8655.09	2823.73	6924.07	5251.86	1672.22
0+940.000	1.83	263.00	210.40	0.10	0.942	8918.09	2864.49	7134.47	5252.81	1881.66
0+950.507	11.20	68.44	54.75	0.69	4.137	8986.53	2882.82	7189.22	5256.94	1932.28
0+960.000	3.41	69.35	55.48	4.50	24.653	9055.88	2912.26	7244.70	5281.60	1963.11
0+980.000	0.00	34.11	27.29	21.97	264.687	9089.98	2944.08	7271.98	5546.29	1725.69
1+000.000	1.96	19.60	15.68	27.47	494.412	9109.59	2968.36	7287.67	6040.70	1246.97
1+020.000	1.96	39.20	31.36	47.16	746.388	9148.79	3016.91	7319.03	6787.09	531.94
1+040.000	1.96	39.20	31.36	37.88	850.421	9187.99	3065.48	7350.39	7637.51	-287.12
1+060.000	5.42	73.85	59.08	11.89	497.673	9261.84	3125.33	7409.47	8135.19	-725.72
1+080.000	23.90	293.23	234.58	0.00	118.887	9555.07	3197.19	7644.06	8254.08	-610.03
1+100.000	37.15	610.49	488.39	0.00	0.000	10165.56	3272.67	8132.45	8254.08	-121.63
1+104.680	37.76	175.27	140.22	0.00	0.000	10340.83	3291.05	8272.66	8254.08	18.58
1+120.000	37.96	579.98	463.98	0.00	0.000	10920.81	3351.30	8736.65	8254.08	482.57
1+140.000	33.17	715.19	572.15	0.00	0.000	11635.99	3429.15	9308.79	8254.08	1054.71
1+157.159	21.22	471.33	377.06	0.02	0.117	12107.33	3493.21	9685.86	8254.20	1431.67
1+160.000	17.22	54.60	43.68	0.16	0.250	12161.93	3503.53	9729.54	8254.44	1475.10
1+180.000	2.76	202.27	161.82	13.46	134.950	12364.20	3540.33	9891.36	8389.39	1501.97
1+200.000	3.46	61.68	49.34	30.37	434.589	12425.87	3575.85	9940.70	8823.98	1116.72
1+213.077	2.92	41.38	33.10	17.21	308.713	12467.26	3599.08	9973.81	9132.69	841.12
1+220.000	2.57	18.89	15.11	10.53	95.401	12486.15	3599.08	9988.92	9228.08	760.84
1+240.000	2.23	47.84	38.27	5.22	156.634	12533.99	3599.08	10027.19	9384.72	642.47
1+260.000	3.36	56.28	45.02	1.05	62.316	12590.27	3628.29	10072.22	9447.03	625.18
1+268.994	5.48	40.37	32.30	2.66	16.346	12630.64	3655.43	10104.51	9463.38	641.13
1+280.000	5.97	63.98	51.18	3.21	31.742	12694.62	3690.30	10155.70	9495.12	660.57
1+300.000	5.34	114.15	91.32	6.81	99.021	12808.78	3756.16	10247.02	9594.14	652.88
1+320.000	4.98	103.43	82.74	9.12	158.560	12912.20	3824.14	10329.76	9752.70	577.06
1+321.473	4.92	7.29	5.83	8.72	13.136	12919.49	3829.17	10335.59	9765.84	569.75
1+340.000	3.88	81.47	65.18	6.51	141.079	13000.97	3890.19	10400.78	9906.92	493.86
1+360.000	2.39	62.67	50.14	7.71	142.197	13063.64	3952.20	10450.91	10049.12	401.80
1+380.000	5.97	83.53	66.82	1.28	89.872	13147.16	4011.74	10517.73	10138.99	378.74
1+400.000	14.15	201.13	160.90	0.62	18.923	13348.29	4072.51	10678.63	10157.91	520.72
1+416.002	3.09	137.91	110.33	19.13	158.010	13486.20	4128.54	10788.96	10315.93	473.03
1+420.000	3.13	12.44	9.95	19.81	77.862	13498.64	4136.26	10798.91	10393.78	405.13
1+440.000	3.23	63.88	51.10	21.84	418.810	13562.52	4136.26	10850.02	10812.60	37.41
1+460.000	3.37	66.62	53.30	26.80	491.985	13629.14	4172.30	10903.31	11304.58	-401.27
1+467.758	3.41	26.63	21.30	28.55	217.691	13655.77	4200.70	10924.62	11522.27	-597.65
1+480.000	3.19	40.91	32.73	23.59	323.709	13696.68	4223.39	10957.34	11845.98	-888.63
1+483.470	3.10	11.03	8.82	21.50	79.272	13707.71	4223.39	10966.17	11925.25	-959.08
1+499.182	2.81	46.86	37.49	15.74	296.470	13754.57	4223.39	11003.66	12221.72	-1218.06
1+500.000	2.81	2.30	1.84	15.66	12.844	13756.87	4224.61	11005.50	12234.56	-1229.07
1+520.000	2.61	54.55	43.64	12.35	283.093	13811.42	4281.89	11049.14	12517.66	-1468.52
1+540.000	3.49	60.99	48.79	6.79	192.454	13872.41	4339.71	11097.93	12710.11	-1612.18
1+550.938	3.86	40.21	32.17	4.47	61.583	13912.62	4374.26	11130.10	12771.69	-1641.60
1+560.000	4.14	36.23	28.98	3.30	35.211	13948.85	4402.46	11159.08	12806.90	-1647.82
1+580.000	6.68	108.20	86.56	0.34	36.429	14057.06	4465.48	11245.65	12843.33	-1597.69
1+600.000	12.65	193.35	154.68	0.02	3.578	14250.41	4532.81	11400.33	12846.91	-1446.58
1+620.000	13.78	264.37	211.50	0.00	0.217	14514.78	4600.26	11611.82	12847.13	-1235.30
1+640.000	17.66	314.41	251.53	0.00	0.058	14829.19	4667.81	11863.35	12847.19	-983.83
1+649.747	18.20	174.73	139.78	0.00	0.000	15003.92	4701.11	12003.14	12847.19	-844.05
1+660.000	19.20	191.73	153.38	0.00	0.000	15195.64	4736.41	12156.51	12847.19	-690.67
1+680.000	17.78	370.95	296.76	0.02	0.150	15566.59	4805.82	12453.27	12847.34	-394.06
1+700.000	10.40	284.22	227.38	0.02	0.350	15850.81	4873.81	12680.65	12847.69	-167.04
1+700.344	10.39	3.58	2.86	0.02	0.000	15854.39	4874.94	12683.51	12847.69	-164.18
1+716.824	3.74	118.38	94.70	3.75	30.633	15972.77	4927.67	12778.22	12878.33	-100.11
1+720.000	2.34	9.74	7.79	6.76	16.513	15982.50	4937.16	12786.00	12894.84	-108.84
1+733.304	3.19	36.55	29.24	20.10	177.242	16019.06	4980.05	12815.25	13072.08	-256.83
1+740.000	3.52	22.33	17.86	26.64	155.591	16041.39	5004.63	12833.11	13227.67	-394.56
1+760.000	4.31	78.15	62.52	56.29	828.429	16119.54	5088.01	12895.63	14056.10	-1160.47

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1+780.000	3.74	80.46	64.37	39.00	952.970	16199.99	5172.93	12959.99	15009.07	-2049.08
1+783.900	3.63	14.36	11.49	35.21	144.724	16214.36	5188.06	12971.49	15153.80	-2182.31
1+800.000	3.09	54.04	43.23	21.46	456.140	16268.40	5244.89	13014.72	15609.94	-2595.22
1+820.000	2.38	54.66	43.73	7.56	290.124	16323.06	5303.60	13058.45	15900.06	-2841.61
1+840.000	16.60	189.80	151.84	0.00	75.569	16512.86	5363.90	13210.29	15975.63	-2765.34
1+860.000	35.23	518.35	414.68	0.00	0.000	17031.21	5435.99	13624.97	15975.63	-2350.66
1+880.000	51.11	863.39	690.71	0.00	0.000	17894.60	5515.45	14315.68	15975.63	-1659.95
1+900.000	62.99	1140.96	912.77	0.00	0.000	19035.56	5600.90	15228.45	15975.63	-747.18
1+920.000	65.07	1280.59	1024.47	0.00	0.000	20316.15	5689.32	16252.92	15975.63	277.29
1+940.000	39.12	1041.85	833.48	0.00	0.000	21358.00	5741.40	17086.40	15975.63	1110.77
1+951.744	27.78	392.79	314.23	0.00	0.000	21750.79	5751.81	17400.63	15975.63	1425.00
1+960.000	22.85	208.98	167.18	0.00	0.000	21959.77	5770.71	17567.82	15975.63	1592.19
1+980.000	2.20	251.11	200.89	4.79	47.813	22210.88	5806.49	17768.70	16023.44	1745.26
2+000.000	3.96	61.43	49.14	42.59	472.419	22272.31	5859.50	17817.85	16495.86	1321.99
2+011.477	4.75	49.74	39.79	67.27	628.019	22322.05	5889.85	17857.64	17123.88	733.76
2+013.887	4.77	11.47	9.18	67.76	162.680	22333.52	5889.85	17866.82	17286.55	580.26
2+016.296	4.75	11.46	9.17	68.25	163.856	22344.98	5897.16	17875.98	17450.42	425.57
2+020.000	4.62	17.35	13.88	68.13	252.569	22362.33	5918.23	17889.86	17702.98	186.88
2+040.000	4.07	86.86	69.49	42.34	1104.299	22449.18	6026.26	17959.34	18807.28	-847.94
2+060.000	3.08	71.59	57.27	22.47	648.760	22520.77	6124.18	18016.62	19456.04	-1439.43
2+076.030	2.60	45.54	36.43	11.57	272.818	22566.31	6188.19	18053.05	19728.85	-1675.81
2+080.000	2.46	10.04	8.03	9.05	40.941	22576.34	6202.42	18061.07	19769.79	-1708.72
2+100.000	7.23	96.86	77.49	0.00	90.531	22673.20	6269.14	18138.56	19860.33	-1721.77
2+120.000	31.61	388.35	310.68	0.00	0.000	23061.55	6338.28	18449.24	19860.33	-1411.09
2+140.000	40.01	716.19	572.95	0.00	0.000	23777.74	6415.11	19022.19	19860.33	-838.13
2+160.000	51.56	915.74	732.59	0.00	0.000	24693.48	6496.37	19754.78	19860.33	-105.54
2+160.106	51.66	5.47	4.38	0.00	0.000	24698.95	6496.81	19759.16	19860.33	-101.17
2+180.000	72.34	1232.32	985.86	0.00	0.000	25931.27	6583.86	20745.02	19860.33	884.69
2+200.000	82.47	1543.36	1234.69	0.00	0.000	27474.63	6676.87	21979.70	19860.33	2119.38
2+210.632	86.10	891.96	713.57	0.00	0.000	28366.59	6727.49	22693.27	19860.33	2832.95
2+220.000	89.21	816.89	653.51	0.00	0.000	29183.47	6772.54	23346.78	19860.33	3486.45
2+220.422	89.35	37.71	30.17	0.00	0.000	29221.19	6774.59	23376.95	19860.33	3516.63
2+230.213	91.94	882.67	706.14	0.00	0.000	30103.86	6822.02	24083.09	19860.33	4222.76
2+240.000	86.32	867.87	694.30	0.01	0.033	30971.74	6869.10	24777.39	19860.37	4917.02
2+260.000	73.93	1596.71	1277.37	0.00	0.075	32568.45	6962.61	26054.76	19860.44	6194.32
2+280.000	61.93	1356.82	1085.46	0.00	0.000	33925.26	7052.16	27140.21	19860.44	7279.77
2+280.739	60.99	45.41	36.33	0.00	0.000	33970.67	7055.39	27176.54	19860.44	7316.09
2+300.000	41.23	984.47	787.58	0.00	0.000	34955.14	7135.26	27964.11	19860.44	8103.67
2+320.000	3.49	447.22	357.78	0.00	0.000	35402.37	7209.94	28321.90	19860.44	8461.45
2+340.000	6.50	99.93	79.94	0.15	1.526	35502.30	7276.66	28401.84	19861.97	8539.87
2+360.000	10.23	167.27	133.82	0.02	1.685	35669.57	7340.75	28535.66	19863.65	8672.00
2+380.000	14.14	243.61	194.89	0.02	0.317	35913.18	7407.06	28730.54	19863.97	8866.57
2+387.531	15.11	110.12	88.10	0.02	0.117	36023.30	7432.45	28818.64	19864.09	8954.55
2+400.000	15.77	192.52	154.02	0.00	0.100	36215.82	7474.40	28972.66	19864.19	9108.47
2+420.000	17.02	328.61	262.89	0.02	0.150	36544.42	7542.86	29235.54	19864.34	9371.20
2+440.000	14.10	312.58	250.06	0.02	0.292	36857.00	7612.08	29485.60	19864.63	9620.97
2+450.242	8.92	118.58	94.86	0.02	0.150	36975.58	7646.59	29580.46	19864.78	9715.68
2+460.000	7.94	83.20	66.56	0.14	0.742	37058.77	7679.50	29647.02	19865.52	9781.49
2+480.000	2.20	102.66	82.13	4.80	49.214	37161.43	7713.76	29729.14	19914.74	9814.41
2+497.275	3.07	45.27	36.22	19.68	210.427	37206.71	7742.72	29765.37	20125.16	9640.21
2+500.000	3.23	8.52	6.82	23.58	58.572	37215.22	7752.06	29772.18	20183.73	9588.44
2+520.000	3.80	69.68	55.74	37.73	608.278	37284.90	7828.07	29827.92	20792.00	9035.92
2+540.000	4.79	85.06	68.05	68.80	1056.394	37369.96	7918.94	29895.97	21848.40	8047.57
2+544.309	4.92	20.76	16.61	77.58	313.551	37390.73	7941.05	29912.58	22161.95	7750.64
2+560.000	4.11	70.57	56.46	47.96	982.310	37461.30	8017.39	29969.04	23144.26	6824.78
2+580.000	3.15	72.48	57.98	21.59	694.947	37533.77	8096.59	30027.02	23839.21	6187.81
2+600.000	3.51	66.66	53.33	0.63	222.303	37600.43	8161.66	30080.34	24061.50	6018.84
2+607.020	15.62	67.17	53.74	0.00	2.218	37667.60	8184.14	30134.08	24063.73	6070.35
2+620.000	30.32	298.16	238.53	0.00	0.000	37965.76	8230.13	30372.61	24063.73	6308.88

P.K.	Área de desmorte (metros cuadrados)	Volumen de desmorte (metros cúbicos)	Volumen reutilizable (metros cúbicos)	Área de terraplén (metros cuadrados)	Volumen de terraplén (metros cúbicos)	Vol. desmorte acumul. (metros cúbicos)	Vol. neto acumul. T.Veg (metros cúbicos)	Vol. reutilizable acumul. (metros cúbicos)	Vol. terraplén acumul. (metros cúbicos)	Vol. neto acumul. (metros cúbicos)
2+640.000	46.19	765.09	612.07	0.00	0.000	38730.85	8307.71	30984.68	24063.73	6920.95
2+660.000	58.95	1051.40	841.12	0.00	0.000	39782.25	8390.47	31825.80	24063.73	7762.07
2+680.000	66.11	1250.61	1000.49	0.00	0.000	41032.86	8476.74	32826.29	24063.73	8762.56
2+700.000	57.60	1237.16	989.73	0.00	0.000	42270.02	8563.37	33816.02	24063.73	9752.29
2+712.992	48.41	688.67	550.94	0.00	0.000	42958.69	8617.56	34366.95	24063.73	10303.22
2+720.000	43.55	322.24	257.79	0.00	0.000	43280.92	8645.73	34624.74	24063.73	10561.01
2+740.000	3.87	472.86	378.29	0.00	0.000	43753.78	8723.77	35003.02	24063.73	10939.30
2+760.000	41.15	446.90	357.52	0.00	0.000	44200.68	8802.87	35360.54	24063.73	11296.82
2+765.259	4.16	117.96	94.37	0.00	0.000	44318.64	8824.62	35454.91	24063.73	11391.18
2+780.000	57.26	447.13	357.70	0.00	0.000	44765.77	8887.17	35812.62	24063.73	11748.89
2+800.000	38.53	945.29	756.23	0.00	0.000	45711.06	8969.23	36568.85	24063.73	12505.12
2+820.000	27.44	650.02	520.02	0.00	0.000	46361.08	9044.90	37088.86	24063.73	13025.14
2+831.523	11.85	222.56	178.05	0.88	5.196	46583.64	9085.83	37266.91	24068.92	13197.99
2+840.000	4.94	69.93	55.94	5.85	28.973	46653.57	9115.73	37322.86	24097.90	13224.96
2+860.000	3.47	83.78	67.02	30.11	363.399	46737.35	9151.73	37389.88	24461.29	12928.59
2+880.000	4.18	77.30	61.84	55.92	868.678	46814.65	9203.45	37451.72	25329.97	12121.75
2+897.786	0.00	37.61	30.09	54.84	991.976	46852.26	9249.42	37481.81	26321.94	11159.87
2+900.000	4.16	4.61	3.69	54.98	121.556	46856.87	9254.94	37485.50	26443.50	11042.00
2+920.000	3.09	72.75	58.20	23.67	788.939	46929.61	9344.52	37543.69	27232.44	10311.25
2+940.000	2.26	53.59	42.87	5.08	287.772	46983.20	9411.74	37586.56	27520.21	10066.35
2+950.053	3.83	30.63	24.50	1.08	30.991	47013.83	9441.34	37611.06	27551.19	10059.87
2+960.000	10.19	69.75	55.80	0.00	5.388	47083.58	9472.80	37666.86	27556.58	10110.29
2+980.000	21.59	317.84	254.27	0.00	0.000	47401.42	9540.16	37921.14	27556.58	10364.56
3+000.000	30.21	518.01	414.41	0.00	0.000	47919.43	9612.56	38335.54	27556.58	10778.97
3+020.000	42.44	726.48	581.18	0.00	0.000	48645.92	9689.28	38916.74	27556.58	11360.16
3+040.000	35.45	778.91	623.13	0.00	0.000	49424.83	9767.59	39539.86	27556.58	11983.29
3+060.000	19.96	554.19	443.35	0.00	0.000	49979.02	9841.43	39983.22	27556.58	12426.64
3+080.000	8.69	286.55	229.24	0.23	2.260	50265.57	9908.91	40212.46	27558.84	12653.62
3+100.000	4.27	129.61	103.69	3.45	36.779	50395.19	9973.58	40316.15	27595.62	12720.53
3+120.000	2.38	66.46	53.17	7.76	112.115	50461.64	10005.93	40369.31	27707.74	12661.57
3+140.000	4.96	73.31	58.65	2.78	105.384	50534.95	10037.14	40427.96	27813.12	12614.84
3+155.442	5.70	82.24	65.79	0.90	28.373	50617.20	10083.88	40493.76	27841.50	12652.26
3+160.000	4.75	23.81	19.05	1.51	5.479	50641.00	10097.28	40512.80	27846.98	12665.82
3+180.000	2.42	71.99	57.59	8.20	96.752	50712.99	10126.78	40570.39	27943.73	12626.66
3+200.000	3.09	54.94	43.95	21.58	296.529	50767.93	10160.80	40614.34	28240.26	12374.09
3+206.484	3.35	20.77	16.62	27.41	158.085	50788.70	10183.68	40630.96	28398.34	12232.62
3+220.000	3.76	47.75	38.20	38.21	441.378	50836.45	10235.71	40669.16	28839.71	11829.45
3+237.535	4.24	69.81	55.85	53.45	800.832	50906.26	10310.70	40725.01	29640.54	11084.46
3+240.000	4.23	10.45	8.36	52.90	131.088	50916.71	10321.84	40733.37	29771.63	10961.74
3+260.000	3.93	81.46	65.17	37.29	900.195	50998.18	10408.38	40798.54	30671.83	10126.72
3+268.586	3.92	33.66	26.93	38.36	324.301	51031.83	10443.91	40825.46	30996.12	9829.35
3+280.000	3.81	44.08	35.26	39.65	445.239	51075.91	10490.01	40860.73	31441.36	9419.37
3+300.000	3.61	74.08	59.26	37.83	774.052	51149.99	10566.74	40919.99	32215.41	8704.58
3+319.627	3.75	72.10	57.68	42.21	784.986	51222.09	10640.99	40977.67	33000.40	7977.28
3+320.000	3.75	1.40	1.12	42.32	15.746	51223.48	10642.42	40978.78	33016.15	7962.63
3+340.000	3.78	75.30	60.24	44.26	865.750	51298.78	10719.88	41039.02	33881.90	7157.12
3+360.000	3.60	73.86	59.09	38.13	823.884	51372.64	10795.85	41098.11	34705.78	6392.34
3+380.000	3.42	70.21	56.17	31.92	700.410	51442.85	10868.07	41154.28	35406.19	5748.09
3+400.000	0.00	34.18	27.34	31.88	637.968	51477.03	10903.23	41181.62	36044.16	5137.46
3+406.242	3.55	11.07	8.86	35.95	211.719	51488.10	10914.62	41190.48	36255.88	4934.60
3+420.000	3.72	49.99	39.99	39.06	516.054	51538.08	10966.04	41230.46	36771.94	4458.53
3+440.000	4.09	78.21	62.57	52.24	914.765	51616.29	11046.49	41293.03	37686.70	3606.33
3+459.260	0.00	39.46	31.57	29.47	788.364	51655.75	11087.08	41324.60	38475.06	2849.54
3+460.000	0.00	0.00	0.00	28.95	21.609	51655.75	11087.08	41324.60	38496.67	2827.93
3+473.653	3.11	21.20	16.96	22.43	350.880	51676.95	11109.20	41341.56	38847.55	2494.01
3+480.000	0.00	9.86	7.89	15.95	121.856	51686.81	11119.49	41349.45	38969.41	2380.04
3+488.046	2.70	10.85	8.68	13.79	119.729	51697.66	11130.86	41358.13	39089.14	2268.99
3+500.000	2.30	29.88	23.90	6.64	122.164	51727.54	11162.08	41382.03	39211.30	2170.73
3+520.000	0.04	23.43	18.74	0.00	66.420	51750.97	11186.46	41400.78	39277.73	2123.05

P.K.	Área de desmonte (metros cuadrados)	Volumen de desmonte (metros cúbicos)	Volumen reutilizable (metros cúbicos)	Área de terraplén (metros cuadrados)	Volumen de terraplén (metros cúbicos)	Vol. desmonte acumul. (metros cúbicos)	Vol. neto acumul. T.Veg (metros cúbicos)	Vol. reutilizable acumul. (metros cúbicos)	Vol. terraplén acumul. (metros cúbicos)	Vol. neto acumul. (metros cúbicos)
3+540.000	12.97	130.02	104.02	0.00	0.000	51880.99	11219.53	41504.79	39277.74	2227.05
3+541.064	12.94	13.79	11.03	0.00	0.000	51894.78	11223.00	41515.82	39277.74	2238.09
3+560.000	19.59	307.98	246.38	0.00	0.000	52202.76	11286.62	41762.21	39277.74	2484.47
3+580.000	20.60	401.95	321.56	0.00	0.000	52604.71	11356.25	42083.77	39277.74	2806.03
3+600.000	27.48	480.80	384.64	0.00	0.000	53085.50	11428.70	42468.40	39277.74	3190.66
3+620.000	22.09	495.65	396.52	0.00	0.000	53581.16	11501.27	42864.93	39277.74	3587.19
3+632.134	15.87	230.27	184.22	0.00	0.000	53811.42	11543.20	43049.14	39277.74	3771.40
3+640.000	11.95	109.40	87.52	0.03	0.092	53920.83	11569.53	43136.66	39277.82	3858.84
3+660.000	3.32	153.60	122.88	2.18	21.893	54074.43	11630.37	43259.54	39299.71	3959.83
3+680.000	2.95	62.98	50.38	18.23	203.154	54137.41	11689.31	43309.93	39502.88	3807.05
3+683.176	3.13	9.59	7.67	22.05	63.626	54147.00	11699.52	43317.60	39566.49	3751.11
3+700.000	4.18	60.86	48.69	47.23	577.428	54207.86	11763.50	43366.29	40143.92	3222.37
3+712.316	4.25	51.43	41.14	55.20	626.367	54259.29	11817.50	43407.43	40770.29	2637.14
3+720.000	4.16	32.13	25.70	49.26	400.086	54291.42	11851.48	43433.14	41170.37	2262.77
3+740.000	3.61	77.33	61.86	34.11	831.740	54368.75	11895.18	43495.00	42002.11	1492.89
3+741.456	3.58	5.23	4.18	33.43	49.181	54373.98	11895.18	43499.18	42051.29	1447.89
3+760.000	3.23	62.96	50.37	24.87	539.506	54436.94	11895.18	43549.55	42590.80	958.75
3+780.000	2.61	58.35	46.68	12.27	371.038	54495.29	11923.01	43596.23	42961.84	634.39
3+792.498	2.27	30.51	24.41	6.15	115.050	54525.80	11955.46	43620.64	43076.88	543.76
3+800.000	2.02	16.09	12.87	2.07	30.808	54541.89	11973.97	43633.51	43107.69	525.82
3+820.000	22.79	248.08	198.46	0.00	20.675	54789.97	12035.10	43831.98	43128.37	703.61
3+840.000	38.02	608.10	486.48	0.00	0.000	55398.07	12110.03	44318.46	43128.37	1190.09
3+860.000	53.69	917.11	733.69	0.00	0.000	56315.17	12191.47	45052.14	43128.37	1923.77
3+880.000	50.57	1042.67	834.14	0.00	0.000	57357.84	12275.53	45886.27	43128.37	2757.91
3+882.870	49.11	143.06	114.45	0.00	0.000	57500.90	12287.45	46000.72	43128.37	2872.35
3+900.000	39.37	755.95	604.76	0.00	0.000	58256.86	12356.45	46605.49	43128.37	3477.12
3+920.000	30.59	692.84	554.27	0.00	0.000	58949.69	12432.33	47159.75	43128.37	4031.39
3+932.347	26.75	348.31	278.65	0.00	0.000	59298.00	12477.19	47438.40	43128.37	4310.03
3+940.000	23.55	188.99	151.19	0.00	0.000	59486.99	12504.52	47589.59	43128.37	4461.23
3+960.000	24.69	474.88	379.90	0.00	0.000	59961.87	12575.66	47969.50	43128.37	4841.13
3+968.590	22.45	199.95	159.96	0.00	0.000	60161.82	12606.08	48129.46	43128.37	5001.09
3+980.000	18.08	228.17	182.54	0.00	0.000	60389.99	12645.51	48311.99	43128.37	5183.63
4+000.000	6.48	241.20	192.96	1.48	15.287	60631.19	12708.44	48504.95	43143.65	5361.30
4+004.833	5.08	27.20	21.76	2.74	10.467	60658.39	12722.56	48526.71	43154.12	5372.59
4+020.000	2.51	56.94	45.55	9.86	96.986	60715.33	12765.39	48572.26	43251.11	5321.16
4+040.000	3.08	56.25	45.00	21.38	314.727	60771.58	12824.38	48617.26	43565.83	5051.43
4+054.310	0.00	22.04	17.63	20.82	301.916	60793.62	12871.21	48634.90	43867.76	4767.14
4+060.000	3.32	9.44	7.55	25.00	130.363	60803.06	12890.48	48642.45	43998.12	4644.33
4+080.000	0.00	33.19	26.55	31.63	566.303	60836.26	12924.75	48669.01	44564.42	4104.58
4+100.000	3.65	36.45	29.16	37.94	695.589	60872.71	12962.25	48698.17	45260.00	3438.16
4+120.000	3.23	68.77	55.02	25.72	636.576	60941.48	13032.98	48753.18	45896.58	2856.60
4+140.000	2.96	61.91	49.53	19.88	456.048	61003.39	13096.68	48802.71	46352.63	2450.08
4+142.975	2.95	8.79	7.03	19.58	58.705	61012.18	13105.72	48809.74	46411.33	2398.41
4+160.000	2.83	49.19	39.35	15.92	302.175	61061.37	13156.61	48849.10	46713.51	2135.59
4+180.000	2.45	52.80	42.24	9.70	256.630	61114.17	13212.14	48891.34	46970.14	1921.20
4+194.734	2.24	34.56	27.65	6.17	117.294	61148.72	13249.21	48918.98	47087.43	1831.54
4+200.000	2.17	11.62	9.30	5.04	29.640	61160.35	13262.64	48928.28	47117.07	1811.21
4+217.861	2.87	44.81	35.85	1.78	61.149	61205.15	13310.05	48964.12	47178.22	1785.90
4+220.000	2.98	6.26	5.01	1.45	3.453	61211.41	13315.87	48969.13	47181.67	1787.46
4+240.000	3.21	61.30	49.04	0.01	14.778	61272.71	13343.82	49018.17	47196.44	1821.72
4+240.989	6.40	4.75	3.80	0.01	0.008	61277.47	13345.38	49021.98	47196.45	1825.52
4+260.000	0.72	67.45	53.96	0.48	4.570	61344.91	13381.40	49075.93	47201.02	1874.91
4+280.000	6.53	73.07	58.46	1.13	15.988	61417.98	13416.59	49134.38	47217.01	1917.37
4+292.748	7.20	87.49	69.99	1.02	13.711	61505.48	13453.14	49204.38	47230.72	1973.66
4+300.000	7.69	53.97	43.18	0.93	7.039	61559.44	13473.94	49247.55	47237.77	2009.78
4+320.000	9.17	168.59	134.87	0.47	13.878	61728.03	13532.44	49382.42	47251.65	2130.78
4+340.000	4.38	135.48	108.38	4.70	51.583	61863.51	13592.83	49490.81	47303.23	2187.58
4+360.000	5.30	96.78	77.42	6.60	112.915	61960.29	13656.90	49568.23	47416.14	2152.09
4+380.000	7.38	126.76	101.41	6.49	130.830	62087.05	13726.38	49669.64	47546.98	2122.66

Arrojando un movimiento de tierras final:

Tierra vegetal (m³)	Desmonte (m³)	Terraplén (m³)	Neto (m³)
15.765,93	66.506,68	52.837,39	
Aprovechable	53.205,34	52.837,39	367,96