

ANEJO 3

MOVIMIENTO DE TIERRAS

El cálculo del movimiento de tierras es el siguiente:

Estación	As.Terr.	Sup.Ocup.	V.T.Veg.	V.Terra.	V.D.Tier.	S.Terra.	S.D.Tie.
0+000	0	0	0	0	0	25,79	47,41
	683	1.412	282	289	819		
0+015	683	1.412	282	289	819	12,71	61,78
	414	1.399	280	117	1.158		
0+030	1.097	2.811	562	406	1.976	2,92	92,56
	307	1.448	290	235	1.507		
0+045	1.404	4.259	852	641	3.483	28,42	108,37
	473	1.516	303	810	1.702		
0+060	1.878	5.775	1.155	1.451	5.185	79,61	118,51
	629	1.528	306	1.343	1.788		
0+075	2.507	7.303	1.461	2.794	6.973	99,46	119,92
	718	1.504	301	1.124	1.734		
0+090	3.225	8.807	1.761	3.918	8.707	50,41	111,23
	533	1.466	293	435	1.683		
0+105	3.757	10.273	2.055	4.353	10.390	7,55	113,24
	187	1.431	286	58	2.001		
0+120	3.945	11.704	2.341	4.411	12.391	0,20	153,50
	23	1.431	286	2	2.728		
0+135	3.968	13.135	2.627	4.413	15.119	0,00	210,27
	0	1.456	291	0	3.577		
0+150	3.968	14.591	2.918	4.413	18.696	0,00	266,71
	0	1.476	295	0	4.351		
0+165	3.968	16.067	3.213	4.413	23.047	0,00	313,42
	0	1.502	300	0	5.025		
0+180	3.968	17.570	3.514	4.413	28.072	0,00	356,58
	0	1.528	306	0	5.602		
0+195	3.968	19.098	3.820	4.413	33.675	0,00	390,38
	0	1.545	309	0	6.062		
0+210	3.968	20.643	4.129	4.413	39.736	0,00	417,86
	0	1.548	310	0	6.391		
0+225	3.968	22.191	4.438	4.413	46.127	0,00	434,22
	49	1.543	309	13	6.549		
0+240	4.017	23.734	4.747	4.425	52.676	1,71	438,97
	167	1.559	312	85	6.569		
0+255	4.184	25.293	5.059	4.510	59.245	9,59	436,88
	279	1.586	317	193	6.495		
0+270	4.463	26.879	5.376	4.703	65.740	16,09	429,11
	326	1.605	321	237	6.404		
0+285	4.789	28.484	5.697	4.940	72.144	15,57	424,81
	309	1.622	324	207	6.445		
0+300	5.098	30.106	6.021	5.148	78.590	12,10	434,59
	256	1.638	328	152	6.714		
0+315	5.354	31.745	6.349	5.300	85.303	8,16	460,55
	217	1.662	332	125	7.187		
0+330	5.570	33.407	6.681	5.425	92.490	8,54	497,73
	218	1.692	338	140	7.774		
0+345	5.788	35.099	7.020	5.565	100.264	10,11	538,80
	234	1.724	345	172	8.382		

0+360	6.022 249	36.823 1.749	7.365 350	5.737 202	108.646 8.936	12,87	578,84
0+375	6.271 243	38.572 1.757	7.714 351	5.939 187	117.583 9.394	14,03	612,69
0+390	6.514 197	40.329 1.752	8.066 350	6.126 121	126.977 9.772	10,88	639,90
0+405	6.710 117	42.081 1.736	8.416 347	6.246 46	136.749 10.134	5,22	663,05
0+420	6.827 35	43.817 1.731	8.763 346	6.292 7	146.883 10.400	0,90	688,15
0+435	6.862 0	45.548 1.723	9.110 345	6.299 0	157.284 10.252	0,00	698,56
0+450	6.862 0	47.270 1.694	9.454 339	6.299 0	167.536 9.507	0,00	668,41
0+465	6.862 0	48.964 1.657	9.793 331	6.299 0	177.043 8.537	0,00	599,21
0+480	6.862 0	50.621 1.619	10.124 324	6.299 0	185.580 7.763	0,00	539,04
0+495	6.862 0	52.240 1.587	10.448 317	6.299 0	193.343 7.113	0,00	496,00
0+510	6.862 0	53.827 1.571	10.765 314	6.299 0	200.456 6.724	0,00	452,43
0+525	6.862 0	55.398 1.577	11.080 315	6.299 0	207.180 6.866	0,00	444,14
0+540	6.862 0	56.974 1.590	11.395 318	6.299 0	214.046 7.315	0,00	471,32
0+555	6.862 0	58.565 1.604	11.713 321	6.299 0	221.361 7.769	0,00	504,00
0+570	6.862 0	60.168 1.613	12.034 323	6.299 0	229.130 8.081	0,00	531,90
0+585	6.862 0	61.781 1.620	12.356 324	6.299 0	237.211 8.228	0,00	545,55
0+600	6.862 0	63.401 1.634	12.680 327	6.299 0	245.440 8.381	0,00	551,56
0+615	6.862 0	65.035 1.645	13.007 329	6.299 0	253.820 8.612	0,00	565,89
0+630	6.862 0	66.681 1.645	13.336 329	6.299 0	262.432 8.723	0,00	582,35
0+645	6.862 0	68.325 1.637	13.665 327	6.299 0	271.155 8.565	0,00	580,74
0+660	6.862 0	69.962 1.624	13.992 325	6.299 0	279.720 8.173	0,00	561,20
0+675	6.862 0	71.586 1.605	14.317 321	6.299 0	287.893 7.609	0,00	528,53
0+690	6.862 0	73.191 1.584	14.638 317	6.299 0	295.502 6.905	0,00	486,02
0+705	6.862 0	74.775 1.560	14.955 312	6.299 0	302.407 6.060	0,00	434,65
0+720	6.862 0	76.335 1.534	15.267 307	6.299 0	308.467 5.120	0,00	373,37
0+735	6.862 0	77.869 1.507	15.574 301	6.299 0	313.587 4.178	0,00	309,26
0+750	6.862 97	79.376 1.477	15.875 295	6.299 22	317.765 3.314	0,00	247,87

0+765	6.959 287	80.852 1.462	16.170 292	6.321 112	321.079 2.597	2,90	193,96
0+780	7.246 478	82.314 1.465	16.463 293	6.433 292	323.676 2.064	12,10	152,31
0+795	7.724 637	83.779 1.471	16.756 294	6.725 542	325.740 1.717	26,80	122,84
0+810	8.361 723	85.250 1.479	17.050 296	7.267 804	327.457 1.496	45,51	106,06
0+825	9.084 768	86.729 1.484	17.346 297	8.071 1.006	328.952 1.317	61,65	93,35
0+840	9.852 802	88.213 1.483	17.643 297	9.077 1.145	330.270 1.149	72,52	82,30
0+855	10.654 832	89.696 1.477	17.939 295	10.222 1.250	331.418 950	80,16	70,87
0+870	11.486 898	91.173 1.468	18.235 294	11.473 1.392	332.369 698	86,56	55,81
0+885	12.384 1.011	92.641 1.461	18.528 292	12.864 1.698	333.066 429	98,98	37,21
0+900	13.394 1.148	94.101 1.456	18.820 291	14.562 2.185	333.495 211	127,37	20,03
0+915	14.543 1.283	95.558 1.454	19.112 291	16.747 2.729	333.707 78	163,94	8,12
0+930	15.826 1.383	97.011 1.436	19.402 287	19.476 3.230	333.785 17	200,00	2,29
0+945	17.209 1.426	98.447 1.426	19.689 285	22.706 3.650	333.802 0	230,64	0,00
0+960	18.634 1.436	99.873 1.436	19.975 287	26.355 3.932	333.802 0	255,97	0,00
0+975	20.070 1.439	101.309 1.439	20.262 288	30.288 4.025	333.802 0	268,33	0,00
0+990	21.510 1.440	102.748 1.440	20.550 288	34.312 4.039	333.802 0	268,30	0,00
1+005	22.949 1.437	104.188 1.437	20.838 287	38.351 3.961	333.802 0	270,23	0,00
1+020	24.386 1.429	105.625 1.429	21.125 286	42.312 3.752	333.802 0	257,91	0,00
1+035	25.815 1.419	107.053 1.419	21.411 284	46.064 3.535	333.802 0	242,31	0,00
1+050	27.234 1.411	108.473 1.411	21.695 282	49.599 3.351	333.802 0	229,08	0,00
1+065	28.645 1.404	109.884 1.404	21.977 281	52.950 3.200	333.802 0	217,69	0,00
1+080	30.050 1.403	111.288 1.403	22.258 281	56.150 3.120	333.802 0	208,93	0,00
1+095	31.452 1.403	112.691 1.403	22.538 281	59.269 3.143	333.802 0	207,01	0,00
1+110	32.855 1.405	114.094 1.405	22.819 281	62.412 3.256	333.802 0	212,00	0,00
1+125	34.260 1.409	115.499 1.409	23.100 282	65.668 3.407	333.802 0	222,09	0,00
1+140	35.669 1.413	116.908 1.413	23.382 283	69.075 3.541	333.802 0	232,21	0,00
1+155	37.082 1.419	118.321 1.419	23.664 284	72.615 3.648	333.802 0	239,88	0,00

1+170	38.501	119.740	23.948	76.263	333.802	246,51	0,00
	1.426	1.426	285	3.761	0		
1+185	39.927	121.166	24.233	80.025	333.802	255,00	0,00
	1.439	1.439	288	3.943	0		
1+200	41.366	122.605	24.521	83.968	333.802	270,79	0,00
	1.455	1.455	291	4.241	0		
1+215	42.821	124.060	24.812	88.209	333.802	294,74	0,00
	1.472	1.472	294	4.661	0		
1+230	44.293	125.531	25.106	92.871	333.802	326,79	0,00
	1.488	1.488	298	5.211	0		
1+245	45.780	127.019	25.404	98.082	333.802	368,06	0,00
	1.503	1.503	301	5.873	0		
1+260	47.283	128.522	25.704	103.955	333.802	414,98	0,00
	1.520	1.520	304	6.593	0		
1+275	48.803	130.042	26.008	110.548	333.802	464,11	0,00
	1.537	1.537	307	7.260	0		
1+290	50.340	131.579	26.316	117.808	333.802	503,88	0,00
	1.556	1.556	311	7.867	0		
1+305	51.896	133.135	26.627	125.675	333.802	545,08	0,00
	1.583	1.583	317	8.254	0		
1+320	53.479	134.718	26.944	133.929	333.802	555,45	0,00
	1.600	1.600	320	8.407	0		
1+335	55.079	136.318	27.264	142.336	333.802	565,47	0,00
	1.601	1.601	320	8.445	0		
1+350	56.680	137.919	27.584	150.781	333.802	560,54	0,00
	1.601	1.601	320	8.331	0		
1+365	58.282	139.521	27.904	159.113	333.802	550,30	0,00
	1.601	1.601	320	8.260	0		
1+380	59.883	141.121	28.224	167.373	333.802	551,07	0,00
	1.593	1.593	319	8.044	0		
1+395	61.476	142.714	28.543	175.417	333.802	521,45	0,00
	1.586	1.586	317	7.819	0		
1+410	63.062	144.300	28.860	183.236	333.802	521,10	0,00
	1.579	1.579	316	7.634	0		
1+425	64.640	145.879	29.176	190.870	333.802	496,72	0,00
	1.568	1.568	314	7.353	0		
1+440	66.209	147.447	29.489	198.223	333.802	483,73	0,00
	1.561	1.561	312	7.177	0		
1+455	67.770	149.008	29.802	205.401	333.802	473,26	0,00
	1.551	1.551	310	6.902	0		
1+470	69.320	150.559	30.112	212.303	333.802	447,02	0,00
	1.543	1.543	309	6.705	0		
1+485	70.863	152.102	30.420	219.008	333.802	447,02	0,00
	1.532	1.532	306	6.431	0		
1+500	72.396	153.634	30.727	225.439	333.802	410,45	0,00
	1.524	1.524	305	6.212	0		
1+515	73.919	155.158	31.032	231.651	333.802	417,78	0,00
	1.520	1.520	304	6.026	0		
1+530	75.439	156.678	31.336	237.677	333.802	385,68	0,00
	1.510	1.510	302	5.763	0		
1+545	76.949	158.188	31.638	243.440	333.802	382,72	0,00
	1.502	1.502	300	5.491	0		
1+560	78.451	159.690	31.938	248.930	333.802	349,35	0,00
	1.501	1.501	300	5.368	0		

1+575	79.952	161.191	32.238	254.298	333.802	366,37	0,00
	1.490	1.490	298	5.078	0		
1+590	81.441	162.680	32.536	259.376	333.802	310,74	0,00
	1.479	1.479	296	4.764	0		
1+605	82.920	164.159	32.832	264.141	333.802	324,49	0,00
	1.466	1.466	293	4.465	0		
1+620	84.386	165.625	33.125	268.606	333.802	270,87	0,00
	1.455	1.455	291	4.161	0		
1+635	85.841	167.080	33.416	272.767	333.802	283,94	0,00
	1.439	1.439	288	3.840	0		
1+650	87.280	168.519	33.704	276.607	333.802	228,12	0,00
	1.426	1.426	285	3.534	0		
1+665	88.706	169.945	33.989	280.142	333.802	243,13	0,00
	1.413	1.413	283	3.246	0		
1+680	90.119	171.358	34.272	283.388	333.802	189,66	0,00
	1.399	1.399	280	2.940	0		
1+695	91.518	172.757	34.551	286.328	333.802	202,35	0,00
	1.385	1.385	277	2.649	0		
1+710	92.904	174.142	34.828	288.977	333.802	150,87	0,00
	1.371	1.371	274	2.337	0		
1+725	94.275	175.513	35.103	291.314	333.802	160,71	0,00
	1.356	1.356	271	2.046	0		
1+740	95.631	176.870	35.374	293.360	333.802	112,14	0,00
	1.342	1.342	268	1.733	0		
1+755	96.972	178.211	35.642	295.093	333.802	118,97	0,00
	1.328	1.328	266	1.458	0		
1+770	98.301	179.539	35.908	296.552	333.802	75,47	0,00
	1.313	1.313	263	1.156	0		
1+785	99.614	180.852	36.170	297.708	333.802	78,71	0,00
	1.278	1.321	264	899	9		
1+800	100.892	182.174	36.435	298.607	333.811	41,17	1,19
	1.194	1.338	268	474	27		
1+815	102.086	183.511	36.702	299.081	333.838	22,03	2,38
	948	1.355	271	229	94		
1+830	103.034	184.867	36.973	299.310	333.932	8,44	10,18
	732	1.362	272	141	174		
1+845	103.767	186.229	37.246	299.451	334.106	10,38	13,00
	550	1.372	274	97	310		
1+860	104.317	187.601	37.520	299.548	334.416	2,60	28,32

Arrojando un movimiento de tierras final:

TIERRA VEGETAL	m3	37.520	-	-
TERRAPLÉN	m3	-	299.548	
DESMONTE	m3	-	-	334.416