



Regione Autonoma della Sardegna  
Assessorato dei Lavori Pubblici



Messa in sicurezza del bacino imbrifero del fiume Cedrino attraverso lavori di manutenzione ordinaria e straordinaria del fiume e dei canali colatori in prossimità della foce del Cedrino.

“Riqualificazione morfologica dell’alveo”

## PROGETTO PRELIMINARE



ELABORATO F  
COMPUTO MOVIMENTI TERRA

L'Ufficio Tecnico consortile  
*dott. ing. Sebastiano Bussalai*



Collaboratori  
*geom. Arcangelo Pira*

novembre 2017



## CALCOLO VOLUMI SCAVO ALVEO

Sezione	Area(mq)	Area Media (mq)	Distanza (m)	Volume (mc)	Volume Comp. (mc)	Sommano (mc)
1s1	8.622					
2s	9.977	9.299	30.00	278.970		
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1s2	10.198					
2s	57.379	33.788	30.00	1013.640	1292.610	1292.610
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2s	9.977					
3s	0.000	4.988	30.00	149.640		
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2s	57.379					
3s	75.438	66.409	30.00	1992.270	2141.910	3434.520
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3s	75.438					
4s	55.648	65.543	6.31	413.576	413.576	3848.096
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4s	55.648					
5s	73.899	64.773	23.69	1534.472	1534.472	5382.568
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5s	73.899					
6s	79.502	76.701	30.00	2301.030	2301.030	7683.598
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6s	0.000					
7s	20.580	10.290	30.00	308.700		
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6s	79.502					
7s	0.000	39.751	30.00	1192.530	1501.230	9184.828
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7s	20.580					
8s	36.869	28.724	30.00	861.720	861.720	10046.548
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8s	36.869					
9s	73.898	55.383	30.00	1661.490	1661.490	11708.038
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9s	73.898					
10s	123.919	98.908	30.00	2967.240	2967.240	14675.278
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10s	123.919					
11s	0.000	61.960	30.00	1858.800		
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10s	0.000					
11s	19.435	9.717	30.00	291.510	2150.310	16825.588
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11s	19.435					
12s	14.539	16.987	30.00	509.610	509.610	17335.198
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12s	14.539					
13s	11.900	13.219	30.00	396.570	396.570	17731.768
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<b>Sezione</b>	<b>Area(mq)</b>	<b>Area Media (mq)</b>	<b>Distanza (m)</b>	<b>Volume (mc)</b>	<b>Volume Comp. (mc)</b>	<b>Sommano (mc)</b>
13s	0.000					
14s	304.092	152.046	30.00	4561.380		
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13s	11.900					
14s	0.000	5.950	30.00	178.500	4739.880	22471.648
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14s	304.092					
15s	310.758	307.425	30.00	9222.750	9222.750	31694.398
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15s	310.758					
16s	270.045	290.401	30.00	8712.030	8712.030	40406.428
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16s	270.045					
17s	278.095	274.070	30.00	8222.100	8222.100	48628.528
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17s	278.095					
18s	342.046	310.071	30.00	9302.130	9302.130	57930.658
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18s	342.046					
19s	0.000	171.023	2.72	465.183		
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18s	0.000					
19s	18.747	9.374	2.72	25.497	490.680	58421.338
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19s	18.747					
20s	22.725	20.736	27.28	565.678	565.678	58987.016
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20s	22.725					
21s	39.082	30.903	30.00	927.090	927.090	59914.106
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21s	39.082					
22s	11.026	25.054	30.00	751.620	751.620	60665.726
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22s	0.000					
23s	331.722	165.861	30.00	4975.830		
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22s	11.026					
23s	0.000	5.513	30.00	165.390	5141.220	65806.946
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23s	331.722					
24s	353.842	342.782	30.00	10283.460	10283.460	76090.406
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24s	353.842					
25s	374.590	364.216	30.00	10926.480	10926.480	87016.886
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25s	374.590					
26s	333.756	354.173	30.00	10625.190	10625.190	97642.076
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26s	333.756					
27s	362.191	347.973	30.00	10439.190	10439.190	108081.266

<b>Sezione</b>	<b>Area(mq)</b>	<b>Area Media (mq)</b>	<b>Distanza (m)</b>	<b>Volume (mc)</b>	<b>Volume Comp. (mc)</b>	<b>Sommano (mc)</b>
27s	362.191					
28s	374.334	368.263	30.00	11047.890	11047.890	119129.156
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28s	374.334					
29s	110.464	242.399	30.00	7271.970	7271.970	126401.126
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29s	110.464					
30s	138.382	124.423	30.00	3732.690	3732.690	130133.816
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30s	138.382					
31s	150.071	144.227	30.00	4326.810	4326.810	134460.626
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31s	150.071					
32s	136.435	143.253	30.00	4297.590	4297.590	138758.216
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32s	136.435					
33s	102.979	119.707	30.00	3591.210	3591.210	142349.426
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33s	102.979					
34s	122.271	112.625	30.00	3378.750	3378.750	145728.176
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34s	122.271					
35s	126.490	124.381	30.00	3731.430	3731.430	149459.606
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35s	126.490					
36s	133.082	129.786	30.00	3893.580	3893.580	153353.186
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36s	133.082					
37s	125.524	129.303	30.00	3879.090	3879.090	157232.276
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37s	125.524					
38s	128.241	126.883	30.00	3806.490	3806.490	161038.766
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38s	128.241					
39s	264.013	196.127	30.00	5883.810	5883.810	166922.576
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39s	264.013					
40s	238.335	251.174	30.00	7535.220	7535.220	174457.796
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40s	238.335					
41s	210.014	224.175	30.00	6725.250	6725.250	181183.046
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41s	210.014					
42s	158.833	184.424	30.00	5532.720	5532.720	186715.766
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42s	158.833					
43s	100.561	129.697	30.00	3890.910	3890.910	190606.676
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43s	100.561					
44s	74.645	87.603	30.00	2628.090	2628.090	193234.766

Sezione	Area(mq)	Area Media (mq)	Distanza (m)	Volume (mc)	Volume Comp. (mc)	Sommano (mc)
44s	74.645					
45s	71.443	73.044	30.00	2191.320	2191.320	195426.086
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45s	71.443					
46s	69.201	70.322	30.00	2109.660	2109.660	197535.746
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46s	69.201					
47s	62.190	65.695	30.00	1970.850	1970.850	199506.596
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47s	62.190					
48s	62.166	62.178	30.00	1865.340	1865.340	201371.936
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48s	62.166					
49s	107.096	84.631	30.00	2538.930	2538.930	203910.866
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49s	107.096					
50s	77.835	92.466	30.00	2773.980	2773.980	206684.846
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50s	77.835					
51s	88.955	83.395	30.00	2501.850	2501.850	209186.696
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51s	88.955					
52s	135.922	112.439	30.00	3373.170	3373.170	212559.866
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52s	135.922					
53s	168.205	152.064	30.00	4561.920	4561.920	217121.786
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53s	168.205					
54s	205.241	186.723	30.00	5601.690	5601.690	222723.476
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54s	205.241					
55s	280.572	242.906	30.00	7287.180	7287.180	230010.656
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55s	280.572					
56s	349.429	315.000	30.00	9450.000	9450.000	239460.656
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56s	349.429					
57s	385.667	367.548	30.00	11026.440	11026.440	250487.096
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57s	385.667					
58s	410.113	397.890	30.00	11936.700		
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57s	0.000					
58s	5.094	2.547	30.00	76.410	12013.110	262500.206
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58s1	377.715					
59s	354.934	366.325	30.00	10989.750		
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58s2	32.397					
59s1	26.482	29.440	30.00	883.200		

<b>Sezione</b>	<b>Area(mq)</b>	<b>Area Media (mq)</b>	<b>Distanza (m)</b>	<b>Volume (mc)</b>	<b>Volume Comp. (mc)</b>	<b>Sommano (mc)</b>
58s	5.094					
59s2	15.761	10.428	30.00	312.840	12185.790	274685.996
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59s	354.934					
60s	144.849	249.892	21.83	5455.142		
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59s	42.243					
60s	0.000	21.121	21.83	461.071	5916.213	280602.209
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60s	144.849					
61s	142.343	143.596	8.17	1173.179	1173.179	281775.388
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61s1	125.546					
62s	122.365	123.955	30.00	3718.650		
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61s2	16.798					
62s	104.012	60.405	30.00	1812.150	5530.800	287306.188
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62s1	110.237					
63s	107.953	109.095	30.00	3272.850		
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62s2	6.690					
63s	2.761	4.725	30.00	141.750		
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62s3	5.439					
63s1	1.161	3.300	30.00	99.000		
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62s	104.012					
63s2	125.571	114.791	30.00	3443.730	6957.330	294263.518
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63s	107.953					
64s1	96.994	102.473	30.00	3074.190		
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63s	2.761					
64s2	1.517	2.139	30.00	64.170		
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63s1	11.705					
64s3	14.564	13.134	30.00	394.020		
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63s2	115.027					
64s	103.755	109.391	30.00	3281.730	6814.110	301077.628
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64s	113.075					
65s1	114.407	113.741	30.00	3412.230		
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64s	103.755					
65s2	102.022	102.889	30.00	3086.670	6498.900	307576.528
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65s1	80.914					
66s	78.857	79.885	30.00	2396.550		

Sezione	Area(mq)	Area Media (mq)	Distanza (m)	Volume (mc)	Volume Comp. (mc)	Sommano (mc)
65s2	135.515					
66s	273.908	204.712	30.00	6141.360	8537.910	316114.438
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66s1	60.708					
67s	57.361	59.034	30.00	1771.020		
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66s2	18.149					
67s1	9.877	14.013	30.00	420.390		
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66s	273.908					
67s2	195.251	234.580	30.00	7037.400	9228.810	325343.248
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67s	57.361					
68s1	32.414	44.887	30.00	1346.610		
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67s	205.128					
68s2	178.040	191.584	30.00	5747.520	7094.130	332437.378
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68s1	182.208					
69s	191.090	186.649	30.00	5599.470		
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68s2	28.246					
69s	2.770	15.508	30.00	465.240	6064.710	338502.088
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69s	191.090					
70s	140.000	165.545	30.00	4966.350		
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69s	2.770					
70s	0.000	1.385	30.00	41.550	5007.900	343509.988
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70s	140.000					
71s	45.186	92.593	30.00	2777.790	2777.790	346287.778
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71s1	19.392					
72s	3.715	11.554	9.42	108.839		
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71s2	25.794					
72s	15.379	20.587	9.42	193.930	302.769	346590.547
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72s	3.715					
73s	21.885	12.800	20.58	263.424		
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72s	15.379					
73s	0.000	7.690	20.58	158.260	421.684	347012.231
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73s	21.885					
74s	0.000	10.942	30.00	328.260	328.260	347340.491
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<b>Sommano</b>				<b>347340.491</b>		<b>347340.491</b>