

Project users	Project name	Design name	Tool name		
Mattias Hedstrom	Sanering Skeppsdo	In-Situ Sanering	BREEAM Infrastructure LCA (CEEQUAL)		
Section	Resource	User input	Unit	Global warm	Acidification
A1-A3-full	Coal	14000	kg	59780	350
A1-A3-full	Organic binding age	75000	kg	105750	342
A1-A3-full	Calcium hydroxide	13000	kg	14271,93	3,13
A1-A3-full	Granulated urea, P	1700	kg	1532,01	7,4
A1-A3-full	Bentonite, activate	1500	kg	723,22	50,1
A1-A3-full	Sand, One Click LCA	500	kg	7,75	0,0276
A1-A3-full	High-density polyet	150	m	411,59	1,62
Subtotal for A1-A3-full:				182476,55	754,27
A4b	Bentonite, activate	1500	kg	37,34	0,172
A4b	Sand, One Click LCA	500	kg	23,78	0,108
A4b	High-density polyet	150	m	0,717	0,0029
Subtotal for A4b:				61,83	0,283
A4legs	Organic binding age	75000	kg	59828,06	242,16
A4legs	Calcium hydroxide	13000	kg	8561,44	34,65
A4legs	Granulated urea, P	1700	kg	173,45	0,702
Subtotal for A4legs:				68562,96	277,52
A5	Coal	14000	kg	0	0
A5	Organic binding age	75000	kg	16557,81	58,42
A5	Calcium hydroxide	13000	kg	2283,34	3,78
A5	Granulated urea, P	1700	kg	170,55	0,81
A5	Wheel loaders, diesel	600	h	17965,7	27,12
A5	Horizontal direction	35,8	m	590,7	1,04
A5	Horizontal direction	358	m	5907	10,42
Subtotal for A5:				43475,09	101,58
Total:				294576,41	1133,66

Eutrophication	Ozone Depletion	Formation of acid equivalents	Abiotic depletion (fossil fuels)	Abiotic depletion (minerals)	Biogenic carbon	Use of net primary production	Hazardous waste
67,2	0,00182	88,2	0,0252	452340	0	89,6	5740
28,5	7,72E-06	24,38	0,975	1747500	0	695250	0,127
0,662	3,48E-11	0,103	0,000397	41031,85	0	10,86	0,0000897
0,136	0	0	0,034	52453,74	0	2,04	0,149
1,98	0,000129	0,285	0,0127	15733,2	0	1,55	16,97
0,00715	0,0000011	0,00181	0,000196	107,5	0	1,63	0,311
0,45	0,0000121	0,119	0,00428	12321,38	0	1,22	20,22
98,94	0,00197	113,08	1,05	2321495	0	695356,9	5777,79
0,0375	7,37E-06	0,00211	0,27	1064,97	0	0	0,000146
0,0235	4,69E-06	0,00153	0,172	683,18	0	0	0,0000928
0,000623	1,38E-07	0,0000598	0,00506	20,04	0	0	2,73E-06
0,0616	0,0000122	0,0037	0,448	1768,19	0	0	0,000241
52	0,0115	5	422,89	1673439,6	0	0	0,228
7,44	0,00165	0,715	60,52	239470,5	0	0	0,0326
0,151	0,0000334	0,0145	1,23	4851,68	0	0	0,000661
59,59	0,0132	5,73	484,63	1917761,8	0	0	0,261
0	0	0	0	0		0	0
8,05	0,00115	2,94	42,39	342093,96		69525	0,0355
0,81	0,000165	0,0818	6,05	28050,24		1,09	0,00327
0,0287	3,34E-06	0,00145	0,126	5730,54		0,204	0,015
5,54	0,00312	2,79	0,00235	243798,13		12,9	0,0651
0,229	0,0000999	0,0988	0,00349	8198,2		14,18	13,42
2,29	0,000999	0,988	0,0349	81982		141,77	134,25
16,94	0,00554	6,89	48,6	709853,07		69695,14	147,79
175,53	0,0207	125,71	534,74	4950878	0	765052,04	5925,84

Non hazard	Radioactive	Mass of radioactive material	Question	Comment	Cost item	Service life	CESMM4	Resources
88480	0,154	14000	Geotechnic 1218	Aktivt kol. Omräknat Källa: C	notSelected	Oil based fi		
10500	76,5	75000	Geotechnic 1215	Oxidationsmedel	10	notSelected	Glue	
20,02	0,773	13000	Geotechnic 1216	Syreavgivare Pro:	As building	notSelected	Explosives	
0,983	0	1700	Geotechnic 1217	Proxy-Näring	IVL	As building	notSelected	Explosives
206,6	0,0424	1500	Masses soil	1212 Bentonit		As building	notSelected	Concrete a
9,9	0,000635	500	Masses soil	Filtersand		As building	notSelected	Sand, soil a
497,49	0,00782	154,5	Masses soil	Grundvattenrör		60	notSelected	Pipes (water
99715,06	77,48	105854,5						
0,114	0,00417	1500	Masses soil	1212 Bentonit		As building	notSelected	Concrete a
0,0724	0,00265	500	Masses soil	Filtersand		As building	notSelected	Sand, soil a
0,00213	0,000078	154,5	Masses soil	Grundvattenrör		60	notSelected	Pipes (water
0,188	0,0069	2154,5						
177,83	6,52	75000	Geotechnic 1215	Oxidationsmedel	10	notSelected	Glue	
25,45	0,932	13000	Geotechnic 1216	Syreavgivare Pro:	As building	notSelected	Explosives	
0,516	0,0189	1700	Geotechnic 1217	Proxy-Näring	IVL	As building	notSelected	Explosives
203,79	7,47	89700						
0	0	0	Geotechnic 1218	Aktivt kol. Omräknat Källa: C	notSelected	Oil based fi		
1067,78	8,3	7500	Geotechnic 1215	Oxidationsmedel	10	notSelected	Glue	
4,55	0,171	1300	Geotechnic 1216	Syreavgivare Pro:	As building	notSelected	Explosives	
0,15	0,00189	170	Geotechnic 1217	Proxy-Näring	IVL	As building	notSelected	Explosives
105,63	1,75	0	Machine h	1228 Hjulla		Not selecte	Machine o	
180,43	0,0555	35,8	Machine h	1210 Borrb		Not selecte	Machine o	
1804,32	0,555	358	Machine h	1214 Borrb		Not selecte	Machine o	
3162,86	10,84	9363,8						
103081,9	95,79	207072,8						

Uni class	CSI master Constructi	Occurrence	Original cla	Environment Resource	Transformation
P8	1			LCA invent	Coal
P7	9			EPD Kleber	Organic binding agent
P7	9			ÖKOBAUD	Calcium hydroxide (Ca(OH) ₂ ; dry; s
P7	9			EPD DAUN	Granulated urea
P7	9			One Click L	Bentonite, activated
P3	31			One Click L	Sand
P8	33			One Click L	High-density polyethylene (HDPE)
P7	9			One Click L	Bentonite, Trailer combination, 40
P3	31			One Click L	Sand Dumper truck, 19 ton c
P8	33			One Click L	High-densit Large delivery truck, 9
P7	9			EPD Kleber	Organic bir Large delivery truck, 9
P7	9			ÖKOBAUD	Calcium hy Large delivery truck, 9
P7	9			EPD DAUN	Granulated Large delivery truck, 9
P8	1			LCA invent	Coal
P7	9			EPD Kleber	Organic binding agent
P7	9			ÖKOBAUD	Calcium hydroxide (Ca(OH) ₂ ; dry; s
P7	9			EPD DAUN	Granulated urea
operation				LCA for ma	Wheel loaders, diesel-driven, oper
operation				One Click L	Horizontal directional drilling (HDC
operation				One Click L	Horizontal directional drilling (HDC

pipe for drainage and sewerage networks

) ton capacity, 100% fill rate (+A1&A2)

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