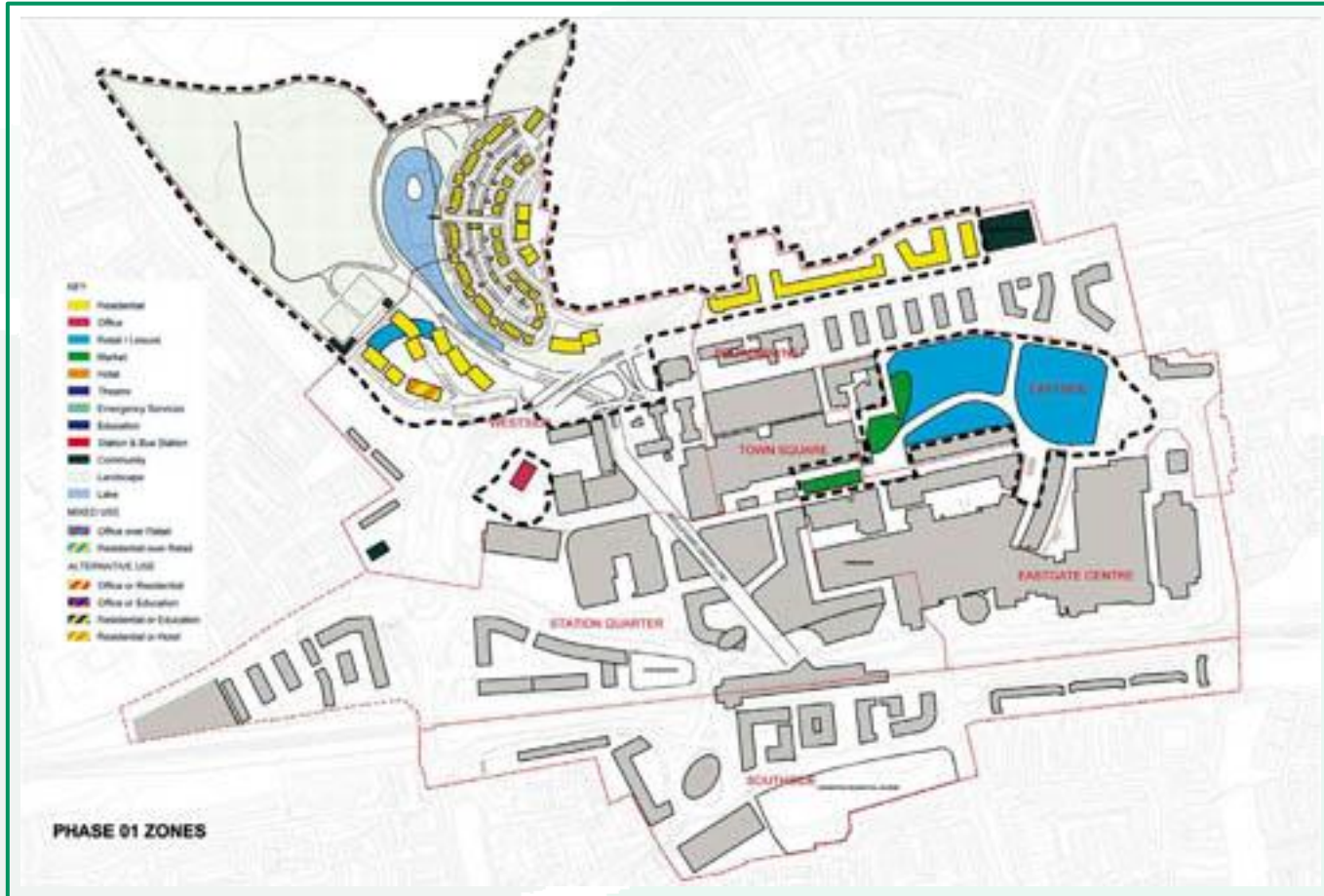


KKB Group



Brownfield development



Remediation technologies



Soil washing

Calculating the benefits - carbon

Dig & Dump

Disposal of contaminated material

		Gas oil (l)	Diesel (l)
Excavation	1 x excavator/ 1 x dump truck (400l/day) x 5 days	2000	
Loading	1 x digger (200l/day) x 16 days	3000	
Pumping	Diesel generator/diesel pump (135l/day) x 30 days	4050	
Transport	495 lorry loads to Peterborough (100 miles @1mpl)		49500
	35 tanker loads to Norwich (50 miles @1mpl)		1750
		9050	51250

Imported material

		Gas oil (l)	Diesel (l)
Excavation	1 x excavator/ 1 x dump truck(400l/day) x 5 days	2000	
Loading	1 x loading shovel (200l/day) x 15 days	3000	
Screening (type-1)	Screener x 1 day	500	
Transport	445 lorry loads from Yarmouth(2 miles @1mpl)		890
	50 lorry loads (type-1) from Yarmouth (15 miles @1mpl)		750
		5500	1640

Calculating the benefits – environmental compliance

BREEAM Excellent (70 points)

Issue ID	Description	Credits
Man 3	Best practice re ground water pollution	1
Mat 5	Responsible Sourcing of Materials	3
Wst 1	Minimisation of hazardous waste Monitoring, measuring and reporting hazardous site waste Reuse and recycling of demolition materials.	4
Wst 2	Re-use of recycled aggregates	2
LE3	Protection of ecological Features “we also prepared hybervernaculars to re-house several brown lizards caught on the site to retain its biodiversity.”	1
TOTAL		11