

Revision P02		DESIGN REMODELLED, NORTH PARK NOT INCLUDED	30/06/2025
Finished Floor Level:	Lake levels: Option 2 (water level at 15.75)		
	Main Building Level: 16.400		
	Car Park Level: 17.050		
Other Notes:	North Park are not included in design model.		
	Car Park levels raised.		
	North Pond levels raised.		
	South site area remodelled - where possible existing levels applied.		
Revision P01		INITIAL VOLUMES	13/06/2025
Finished Floor Level:	Lake levels: Option 2 (water level at 15.75)		
	Main Building Level: 16.400		
	Car Park Level: 16.800		
Other Notes:	Top soil strip: 200mm; Trees/Vegetation strip: 1m.		
	Contaminated material (1-2%) going off site: 865 m3.		
	All boulders / cobbles from cut screened, crushed and reused. Assumed at 15% recovery on deeper excavations.		
	Camping Area not included in calculations.		
	Proposed Attenuation ponds levels based on drainage drawings.		
	Construction depths applied:		
	- Car Park / Road / Lake / Building - 600mm		
	- Ponds / Landscaping - 300mm		
	- Area between ponds - 200mm		

Information Used:			
Model / Information	Source Drawing Reference	Provided By	Date
Design Level Scheme	WAVE-WHE-ZZ-XX-DR-S-0006 - Design Levels.dwg		
Existing Level Survey	GBR02-500570-Lee Valley 2D Topographical Survey_01.dwg		
Construction Depths		Rob Hazel	
Arisings	3,500 m3 + 900m3 (caret storage)	Rob Hazel	

THE WAVE

STRIP VOLUMES			
1.Strip			
1.1 Topsoil	14,516 m3		
1.2 Soft Strip (Vegetation, Unacceptable)	17,837 m3		Not included in Topsoil Net
2. Resoil			
2.1 Topsoil	15,796 m3		
3. Topsoil Net (1.1 - 2.1)	-1,280 m3		Shortfall
BULK EARTHWORKS (BUNDS NOT INCLUDED)			
4. Bulk Earthworks Cut:			
	36,744 m3		
5. Bulk Earthworks Fill:			
	34,927 m3		
6. Contaminated off site material volume			
	565 m3		
7. Crush material for reuse			
	3,425 m3		
8. Bulk Earthworks Net (4 - 5 - 6 - 7)	-2,173 m3		Shortfall

Bund Volumes	
Bund 1 (South)	8,970 m3
Bund 2	5,082 m3
Bund 3	4,921 m3
Bund 4 (North)	1,544 m3
Total:	20,517 m3

CUT				ZONE NUMBER	LOCATION	FILL			Contaminated off site material volume	Crush material for reuse in piling mats etc	BULK EARTHWORKS	
SOFT STRIP		BULK CUT				BULK FILL	LANDSCAPING RESOIL					
ACCEPTABLE	UNACCEPTABLE	Other than Chalk and Topsoil					GENERAL	Landscaped Areas				Ponds
Topsoil Strip	Trees	Bulk Cut	Arisings									
4,041 m3	2,257 m3	15,736 m3		Z01	BuildingLake	12,503 m3			2%	315 m3	2,360 m3	558 m3
1,029 m3	1,700 m3	1,654 m3		Z02	CarPark_Road	1,025 m3			1%	17 m3		612 m3
1,263 m3	2,224 m3	1,274 m3		Z03	200mm strip	2,239 m3			2%	25 m3		-991 m3
1,059 m3	576 m3	7,098 m3		Z04	Pond_Swale	550 m3		1,762 m3	2%	142 m3	1,065 m3	5,341 m3
7,124 m3	11,080 m3	6,582 m3		Z05	Landscaping	18,610 m3	14,034 m3		1%	66 m3		-12,094 m3
					Arisings							3,500 m3
					Geocellular Crate Storage							900 m3
14,516 m3	17,837 m3	32,344 m3	4,400 m3	Sub-totals		34,927 m3	14,034 m3	1,762 m3		565 m3	3,425 m3	-2,173 m3
		36,744 m3		MUCK BALANCE		15,796 m3						

Existing Area Schedule							
Sum of Plan area		Column Labels					
Row Labels		Z01_BuildingLake	Z02_CarPark_Road	Z03_200mm strip	Z04_Pond_Swale	Z05_Landscaping	Grand Total
X_Tarmac						81 m2	81 m2
X_Grass	20,203 m2		5,146 m2	6,316 m2	5,296 m2	35,619 m2	72,579 m2
X_Vegetation	2,257 m2		1,700 m2	2,224 m2	576 m2	11,080 m2	17,837 m2
Grand Total	22,459 m2		6,846 m2	8,540 m2	5,872 m2	46,780 m2	90,497 m2

Design Area Schedule						
Sum of Plan area		Description				
Description2		Z01_BuildingLake	Z02_CarPark_Road	Z03_200mm strip	Z04_Pond_Swale	Z05_Landscaping
D_Grass						46,780 m2
D_Constr D 600	22,459 m2		6,846 m2			29,306 m2
D_Constr D 200				8,540 m2		8,540 m2
D_Pond					5,872 m2	5,872 m2
Grand Total	22,459 m2		6,846 m2	8,540 m2	5,872 m2	46,780 m2

Strip and Construction Depths		
TYPE	DESCRIPTION	DEPTH
Existing Strip Depth	Vegetation	1,000mm
Design Construction Depth	Constr D 200	200mm
Design Construction Depth	Constr D 600	600mm
Design Construction Depth	Pond	300mm
Design Construction Depth	Grass	300mm
Existing Strip Depth	Tarmac	200mm
Existing Strip Depth	Grass	200mm