



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD

13 Blackburn Road, London, NW6 1RZ
Ground Movement Assessment
Combined Movements & Damage Assessment

Job No.	Sheet No.	Rev.
J19295		
Drg. Ref.		
Made by	Date	Checked
	22-Jan-2021	

Specific Building Damage Results - All Combined Segments

Stage Ref.	Stage Name	Specific Building Ref.	Specific Building Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Combined Segment	Start [m]	Length [m]	Curvature	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Tensile Strain [%]	Damage Category
0	Base Model	1	Nos 5 to 9 Blackburn Road	A	0.0	No combined segments for this stage, specific building and offset.							
		2	Nos 5 to 9 Blackburn Road	B	0.0	No combined segments for this stage, specific building and offset.							
		3	Nos 5 to 9 Blackburn Road	C	0.0	No combined segments for this stage, specific building and offset.							
		4	Nos 5 to 9 Blackburn Road	D	0.0	No combined segments for this stage, specific building and offset.							
		5	Nos 5 to 9 Blackburn Road	E	0.0	1 0.0 1.9000 None 374.00E-6 0.037500 0.037653 0 (Negligible)							
		6	Nos 5 to 9 Blackburn Road	F	0.0	No combined segments for this stage, specific building and offset.							
		7	Nos 5 to 9 Blackburn Road	G	0.0	No combined segments for this stage, specific building and offset.							
		8	Nos 5 to 9 Blackburn Road	H	0.0	No combined segments for this stage, specific building and offset.							
		9	Nos 5 to 9 Blackburn Road	I	0.0	No combined segments for this stage, specific building and offset.							
		10	Nos 5 to 9 Blackburn Road	J	0.0	No combined segments for this stage, specific building and offset.							
		11	No 11 Blackburn Road - Workshop A	A	0.0	1 2.9951 11.980 None 0.0014202 0.0044871 0.0064701 0 (Negligible)							
		12	No 11 Blackburn Road - Workshop A	B	0.0	1 0.0 5.9840 None 0.0017499 0.036951 0.039510 0 (Negligible)							
		13	No 11 Blackburn Road - Workshop A	C	0.0	1 0.0 7.9868 None 0.0011340 946.70E-6 0.0026692 0 (Negligible)							
		14	No 11 Blackburn Road - Workshop A	D	0.0	No combined segments for this stage, specific building and offset.							
		15	No 11 Blackburn Road - Workshop B	A	0.0	1 0.0 19.956 Hogging 0.0073221 0.038068 0.048894 0 (Negligible)							
		16	No 11 Blackburn Road - Workshop B	B	0.0	1 0.0 15.529 None 0.0049318 0.037255 0.043311 0 (Negligible)							
		17	No 11 Blackburn Road - Workshop B	C	0.0	1 0.0 26.099 None 0.0036064 -426.08E-6 0.0026120 0 (Negligible)							
		18	No 11 Blackburn Road - Workshop B	D	0.0	1 0.0 5.1100 None 0.0027324 0.034995 0.038771 0 (Negligible)							
		19	No 11 Blackburn Road - Workshop B	E	0.0	1 0.0 4.0260 None 0.0056385 -0.0027864 0.0041442 0 (Negligible)							
		20	No 11 Blackburn Road - Workshop B	F	0.0	1 0.0 7.1840 None 0.0070167 0.061689 0.072301 1 (Very Slight)							
		21	Independent Student Living Block	A	0.0	No combined segments for this stage, specific building and offset.							
		22	Independent Student Living Block	B	0.0	1 3.0545 19.345 Sagging 0.0083148 0.0 0.0080004 0 (Negligible)							
		23	Independent Student Living Block	C	0.0	No combined segments for this stage, specific building and offset.							
		24	Independent Student Living Block	D	0.0	1 0.0 12.907 None 0.0022545 0.0 0.0022157 0 (Negligible)							
		25	Independent Student Living Block	E	0.0	No combined segments for this stage, specific building and offset.							
		26	Independent Student Living Block	F	0.0	No combined segments for this stage, specific building and offset.							
		27	Independent Student Living Block	G	0.0	1 12.928 4.9722 None 798.32E-9 0.0079871 0.0079872 0 (Negligible)							
		28	Independent Student Living Block	H	0.0	No combined segments for this stage, specific building and offset.							
		29	Independent Student Living Block	I	0.0	1 0.0 4.9914 None 800.56E-9 0.0079565 0.0079565 0 (Negligible)							
		30	Independent Student Living Block	J	0.0	No combined segments for this stage, specific building and offset.							
		31	Independent Student Living Block	K	0.0	1 0.0 17.900 None 0.0033282 0.016936 0.018318 0 (Negligible)							
		32	Independent Student Living Block	L	0.0	No combined segments for this stage, specific building and offset.							
		33	Independent Student Living Block	M	0.0	No combined segments for this stage, specific building and offset.							
		34	Build Depot	A	0.0	1 0.0 59.900 Sagging 0.0028360 -514.79E-6 868.00E-6 0 (Negligible)							
		35	Build Depot	B	0.0	1 0.0 1.9778 None 296.63E-6 0.0047552 0.0049288 0 (Negligible)							
		36	Build Depot	C	0.0	No combined segments for this stage, specific building and offset.							
		37	Build Depot	D	0.0	No combined segments for this stage, specific building and offset.							
		38	Build Depot	E	0.0	No combined segments for this stage, specific building and offset.							
		39	Build Depot	F	0.0	No combined segments for this stage, specific building and offset.							
		40	Build Depot	G	0.0	No combined segments for this stage, specific building and offset.							
		41	Build Depot	H	0.0	1 5.9333 2.9657 None 134.24E-6 0.011942 0.012055 0 (Negligible)							
		42	Boundary Wall / Billy Fury Way	A	0.0	1 0.0 12.272 None 0.0015896 -210.67E-6 0.0019873 0 (Negligible)							

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.