

PILE POSITION TBC
FOLLOWING SURVEY OF UU
SEWER AND UU AGREEMENT

PILE SCHEDULE P1-P99										
PILE NUMBER	PILE DIAMETER (mm)	EASTING (mm)	NORTHING (mm)	CUT OFF LEVEL (mm OD)	DEAD LOAD (kN)	LIVE LOAD (kN)	WIND LOAD (+/-kN)	HORIZONTAL DEAD LOAD...	HOLIZONTAL LIVE LOAD (kN)	HORIZONTAL WIND LOAD (kN)
P1	Ø900	383779785	398633432	32225	1700	400	50	REFER NOTE 1	REFER NOTE 1	-
P2	Ø900	383780381	398634916	32225	1700	400	50	REFER NOTE 1	REFER NOTE 1	-
P3	Ø900	383780978	398636401	32225	1400	400	50	REFER NOTE 1	REFER NOTE 1	-
P4	Ø900	383781574	398637886	32225	1400	400	50	REFER NOTE 1	REFER NOTE 1	-
P5	Ø900	383782170	398639370	32225	1400	400	50	REFER NOTE 1	REFER NOTE 1	-
P6	Ø900	383782767	398640855	32225	1400	400	50	REFER NOTE 1	REFER NOTE 1	-
P7	Ø900	383783363	398642340	32225	1500	400	100	REFER NOTE 1	REFER NOTE 1	-
P8	Ø900	383783959	398643825	32225	1500	400	100	REFER NOTE 1	REFER NOTE 1	-
P9	Ø900	383784556	398645309	32225	1500	400	100	REFER NOTE 1	REFER NOTE 1	-
P10	Ø900	383785152	398646794	32225	1500	400	100	REFER NOTE 1	REFER NOTE 1	-
P11	Ø900	383785748	398648279	31855	1500	400	1150	REFER NOTE 1	REFER NOTE 1	-
P12	Ø900	383786345	398649763	31855	1500	400	1150	REFER NOTE 1	REFER NOTE 1	-
P13	Ø900	383786941	398651248	31855	1500	400	1150	REFER NOTE 1	REFER NOTE 1	-
P14	Ø900	383787537	398652733	31855	1500	400	1150	REFER NOTE 1	REFER NOTE 1	-
P15	Ø900	383788134	398654218	31855	2000	550	100	REFER NOTE 1	REFER NOTE 1	-
P16	Ø900	383788730	398655702	31855	2000	550	100	REFER NOTE 1	REFER NOTE 1	-
P17	Ø900	383789326	398657187	31855	2000	550	100	REFER NOTE 1	REFER NOTE 1	-
P18	Ø900	383789923	398658672	31855	2000	550	100	REFER NOTE 1	REFER NOTE 1	-
P19	Ø900	383790519	398660156	31285	1700	450	150	REFER NOTE 1	REFER NOTE 1	-
P20	Ø900	383791115	398661641	31285	1700	450	150	REFER NOTE 1	REFER NOTE 1	-
P21	Ø900	383791712	398663126	31285	1700	450	150	REFER NOTE 1	REFER NOTE 1	-
P22	Ø900	383792308	398664611	31285	1700	450	150	REFER NOTE 1	REFER NOTE 1	-
P23	Ø900	383792905	398666095	31285	1500	350	200	REFER NOTE 1	REFER NOTE 1	-
P24	Ø900	383793501	398667580	31285	1500	350	200	REFER NOTE 1	REFER NOTE 1	-
P25	Ø900	383794097	398669065	31285	1500	350	200	REFER NOTE 1	REFER NOTE 1	-
P26	Ø900	383794694	398670549	31285	1500	350	200	REFER NOTE 1	REFER NOTE 1	-
P27	Ø900	383795290	398672034	31285	1900	500	100	REFER NOTE 1	REFER NOTE 1	-
P28	Ø900	383795886	398673519	31285	1900	500	100	REFER NOTE 1	REFER NOTE 1	-
P29	Ø900	383796483	398675004	30800	1900	500	100	REFER NOTE 1	REFER NOTE 1	-
P30	Ø900	383797079	398676489	30800	2100	500	50	REFER NOTE 1	REFER NOTE 1	-
P31	Ø900	383797675	398677974	30800	2100	500	50	REFER NOTE 1	REFER NOTE 1	-
P32	Ø900	383798271	398679459	30800	2100	500	50	REFER NOTE 1	REFER NOTE 1	-

NOTES:

- 1) FOR THE CONTIGUOUS PILES HORIZONTAL DEAD AND LIVE LOADS ARE TO BE DETERMINED BY THE CONTRACTORS PILE DESIGNER BASED ON THE CONTRACTORS TEMPORARY WORKS SEQUENCE. THE FINAL PERMANENT STAGE HORIZONTAL ACTIONS SHOULD BE CONSIDERED IN CONJUNCTION WITH THE PERMANENT VERTICAL LOADING FROM THE SUPERSTRUCTURE PROVIDED IN THIS TABLE.
- 2) FOR THE CONTIGUOUS PILES THE REQUIRED PILE TOE DEPTH MAY BE CONTROLLED EITHER BY VERTICAL LOADING REQUIREMENTS OR BY MINIMUM SOCKET INTO THE SANDSTONE FOR LATERAL STABILITY DURING CONSTRUCTION.

PILE SCHEDULE P100-P199										
PILE NUMBER	PILE DIAMETER (mm)	EASTING (mm)	NORTHING (mm)	CUT OFF LEVEL (mm OD)	DEAD LOAD (kN)	LIVE LOAD (kN)	WIND LOAD (+/-kN)	HORIZONTAL DEAD LOAD...	HOLIZONTAL LIVE LOAD (kN)	HORIZONTAL WIND LOAD (kN)
P100	Ø750	383744775	398649380	24035	1400	600	100	-	-	200
P101	Ø750	383745609	398650161	24035	1900	750	100	-	-	200
P102	Ø750	383749179	398655118	24035	2900	950	250	-	-	200
P103	Ø750	383749946	398656041	24035	3100	1000	200	-	-	200
P104	Ø750	383754904	398662598	24035	2700	950	200	-	-	200
P105	Ø750	383755671	398663521	24035	1700	650	200	-	-	200

INTENDING TO REMOVE THESE PILES FOR
A SHALLOW FOUNDATION ON SANDSTONE
TBC AFTER INVESTIGATION DURING
DEMOLITION TO DETERMINE SANDSTONE
AND MASONRY RIVER WALL GEOMETRY

NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER STRUCTURAL DRAWINGS.
2. FOR INDEX SHEET OF STRUCTURAL DRAWINGS REFER TO DRAWING REN-BGE-S-GEN-002.
3. FOR GENERAL NOTES REFER TO DRAWINGS REN-BGE-S-GEN-010 TO 012.
4. FOR STANDARD DETAILS REFER TO DRAWINGS REN-BGE-S-016 TO 025.
5. REFER TO PILING NOTE DRAWING REN-BGE-S-RT-050.
6. REFER TO PILING SCHEDULE DRAWING REN-BGE-S-RT-051.

PD4	05.11.2021	ISSUED FOR STAGE 2 TENDER	JW
PD3	14.10.2021	RIBA STAGE 4 - ISSUED FOR PLANNING	JW
PD2	5.10.2021	RIBA STAGE 4 - ISSUED FOR PLANNING	JW
PD1	28.07.2021	RIBA STAGE 3 ISSUED FOR STAGE 1 TENDER	NT
PD0	23.07.2021	RIBA STAGE 3 ISSUED FOR STAGE 1 TENDER	NT
REV	DATE	DESCRIPTION	RVD
REVISIONS			
CLIENT			
PROPERTY ALLIANCE GROUP LTD			
London Office — 163 Tower Bridge Road, London SE1 3LW P / +44 (0) 7999 968 245 E / info@bgeeng.com bgeeng.com —			
PROJECT			
RENAISSANCE STRUCTURAL RESIDENTIAL TOWER			
STATUS			
ISSUED FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION			
DRAWN JW	DESIGNED LK	CHECKED KT	APPROVED KT
DATUM	EPD	SCALE 1 : 1	AT A1 SIZE
TITLE			
PILING SCHEDULE			
PROJECT No. L20081	DRAWING No. REN-BGE-S-RT-052	REV. P04	



Appendix H: GQRA Screening Tables for the Deansgate Level

Human Health Generic Quantitative Assessment for Soil (For the Deansgate Level FWRA)

Renaissance Hotel 1602

Key:

Exceedance of the GAC

GAC - Generic Assessment Criteria

Laboratory Report Ref.													
Exploratory Location Ref.			Residential With Home Grown Produce										
Sample Depth (m)													
Sample Date													
Made Ground / Natural ?			Units	1% SOM		MG	MG	MG	MG	MG	MG	MG	MG
				GAC	GAC Ref.								
Anions and Other													
Water Soluble Sulphate			g/l	-	-	nt	0.02	< 0.02	0.03	nt	nt	nt	nt
Water Soluble Sulphate			mg/kg	-	-	180	nt	nt	nt	41	182	210	166
Heavy Metals and Metalloids													
Arsenic			mg/kg	40	DEFRA C4SLs	37.5	nt	nt	nt	17.2	8.3	7.8	14.7
Barium			mg/kg	1300	CL-AIRE GAC	325	nt	nt	nt	238	1090	80.4	169
Beryllium			mg/kg	1.7	LOM SAULs	0.8	nt	nt	nt	1.1	1.1	< 1.0	1.4
Cadmium			mg/kg	150	DEFRA C4SLs	0.8	nt	nt	nt	0.9	2.1	1.8	0.6
Chromium			mg/kg	910	LOM SAULs	41.6	nt	nt	nt	26.3	19.6	15.7	25.7
Chromium (III)			mg/kg	910	DEFRA C4SLs	41.6	nt	nt	nt	26.3	19.6	15.7	25.7
Copper			mg/kg	7100	LOM SAULs	154	nt	nt	nt	77.2	29.8	19.8	55.2
Lead			mg/kg	310	DEFRA C4SLs	157	nt	nt	nt	206	95.5	27.2	142
Mercury			mg/kg	15	LOM SAULs	< 0.5	nt	nt	nt	1.1	< 0.5	< 0.5	5.0
Molybdenum			mg/kg	670	CL-AIRE GAC	8.4	nt	nt	nt	2.0	1.8	1.3	2.9
Nickel			mg/kg	180	LOM SAULs	69.5	nt	nt	nt	28.2	41.4	26.4	34.8
Selenium			mg/kg	430	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium			mg/kg	1200	LOM SAULs	72.2	nt	nt	nt	25.5	18.7	11.9	31.2
Zinc			mg/kg	40000	LOM SAULs	192	nt	nt	nt	144	169	197	129
Inorganics													
Free Cyanide			mg/kg	34	Atkins AtRisk S	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium			mg/kg	21	LOM SAULs	< 0.8	nt	nt	nt	< 0.8	< 0.8	< 0.8	< 0.8
Total Cyanide			mg/kg	34	Atkins AtRisk S	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphur			mg/kg	-	-	nt	0.02	0.01	0.01	nt	nt	nt	nt
Acid Soluble Sulphate (SO4)			mg/kg	-	-	nt	0.02	< 0.02	0.02	nt	nt	nt	nt
Water Soluble Boron			mg/kg	11000	LOM SAULs	1.9	nt	nt	nt	< 0.5	0.5	< 0.5	< 0.5
PAHs													
Naphthalene			mg/kg	2.3	LOM SAULs	< 0.1	nt	nt	nt	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene			mg/kg	3000	LOM SAULs	< 0.1	nt	nt	nt	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene			mg/kg	2900	LOM SAULs	0.3	nt	nt	nt	0.1	< 0.1	< 0.1	0.2
Fluorene			mg/kg	2800	LOM SAULs	0.2	nt	nt	nt	< 0.1	< 0.1	< 0.1	0.1
Phenanthrene			mg/kg	1300	LOM SAULs	2.1	nt	nt	nt	0.8	0.4	< 0.1	1.4
Anthracene			mg/kg	31000	LOM SAULs	0.5	nt	nt	nt	0.2	0.1	< 0.1	0.3
Fluoranthene			mg/kg	1500	LOM SAULs	2.4	nt	nt	nt	0.8	0.7	0.1	2.5
Pyrene			mg/kg	3700	LOM SAULs	2.0	nt	nt	nt	0.8	0.6	0.1	2.0
Benzofluoranthene			mg/kg	11	LOM SAULs	1.0	nt	nt	nt	0.4	0.3	< 0.1	1.0
Chrysene			mg/kg	30	LOM SAULs	1.3	nt	nt	nt	0.5	0.4	< 0.1	1.3
Benzob[a]fluoranthene			mg/kg	3.9	LOM SAULs	1.1	nt	nt	nt	0.5	0.3	< 0.1	1.0
Benzok[a]fluoranthene			mg/kg	110	LOM SAULs	1.1	nt	nt	nt	0.5	0.3	< 0.1	1.2
Benz[a]pyrene			mg/kg	5.3	DEFRA C4SLs	1.1	nt	nt	nt	0.5	0.3	< 0.1	1.1
Indeno[1,2,3-cd]pyrene			mg/kg	45	LOM SAULs	0.7	nt	nt	nt	0.2	0.2	< 0.1	0.7
Dibenz[a,h]anthracene			mg/kg	0.31	LOM SAULs	0.2	nt	nt	nt	< 0.1	< 0.1	< 0.1	0.2
Benz[ghi]perylene			mg/kg	360	LOM SAULs	0.5	nt	nt	nt	0.2	0.2	< 0.1	0.6
Total PAH(16)			mg/kg	-	-	14.6	nt	nt	nt	5.6	4.1	0.8	13.8
TPH													
<C5-C8 Aliphatic (H ₈ -I ₀ -M ₈)			mg/kg	42	LOM SAULs	< 0.01	nt	nt	nt	< 0.01	< 0.01	< 0.01	< 0.01
<C6-C8 Aliphatic (H ₈ -I ₀ -M ₈)			mg/kg	100	LOM SAULs	< 0.01	nt	nt	nt	< 0.01	< 0.01	< 0.01	< 0.01
<C8-C10 Aliphatic (H ₈ -I ₀ -M ₈ +H ₁₀ -I ₂ -M ₁₀)			mg/kg	27	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C10-C12 Aliphatic (H ₁₀ -I ₂ -M ₁₀)			mg/kg	130	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C12-C16 Aliphatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	1100	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C16-C21 Aliphatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	65000	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C21-C35 Aliphatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	65000	LOM SAULs	7.3	nt	nt	nt	< 1.0	6.4	< 1.0	14.4
<C35-C40 Aliphatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	65000	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	1.8	< 1.0	4.3
Total aliphatic hydrocarbons (<C5 - C40) (H ₈ -I ₀ -M ₈ +H ₁₀ -I ₂ -M ₁₀)			mg/kg	-	LOM SAULs	8.2	nt	nt	nt	< 1.0	8.8	< 1.0	20.6
<C5-C7 Aromatic (H ₈ -I ₀ -M ₈)			mg/kg	370	LOM SAULs	< 0.01	nt	nt	nt	< 0.01	< 0.01	< 0.01	< 0.01
<C7-C8 Aromatic (H ₈ -I ₀ -M ₈)			mg/kg	860	LOM SAULs	< 0.01	nt	nt	nt	< 0.01	< 0.01	< 0.01	< 0.01
<C8-C10 Aromatic (H ₈ -I ₀ -M ₈ +H ₁₀ -I ₂ -M ₁₀)			mg/kg	47	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C10-C12 Aromatic (H ₁₀ -I ₂ -M ₁₀)			mg/kg	250	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C12-C16 Aromatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	1800	LOM SAULs	< 1.0	nt	nt	nt	< 1.0	< 1.0	< 1.0	< 1.0
<C16-C21 Aromatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	1900	LOM SAULs	2.8	nt	nt	nt	1.2	1.2	< 1.0	3.1
<C21-C35 Aromatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	1900	LOM SAULs	8.9	nt	nt	nt	4.4	11.6	< 1.0	29.3
<C35-C40 Aromatic (H ₁₂ -I ₂ -M ₁₀)			mg/kg	1900	LOM SAULs	< 1.0	nt	nt	nt	1.0	3.0	< 1.0	14.5
Total aromatic hydrocarbons (<C5 - C40) (H ₈ -I ₀ -M ₈ +H ₁₀ -I ₂ -M ₁₀)			mg/kg	-	LOM SAULs	13.1	nt	nt	nt	6.9	16.2	1.5	48.9
Total petroleum hydrocarbons (<C5 - C40) (H ₈ -I ₀ -M ₈ +H ₁₀ -I ₂ -M ₁₀)			mg/kg	-	LOM SAULs	21.3	nt	nt	nt	7.3	25.0	1.6	69.5
BTEX and MTBE													
Benzene			ug/kg	890	DEFRA C4SLs	< 10.0	nt	nt	nt	< 10.0	< 10.0	< 10.0	< 10.0
Toluene			ug/kg	880000	LOM SAULs	< 10.0	nt	nt	nt	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene			ug/kg	83000	LOM SAULs	< 10.0	nt	nt	nt	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes			ug/kg	245000	LOM SAULs	< 10.0	nt	nt	nt	< 10.0	< 10.0	< 10.0	< 10.0
MTBE			ug/kg	-	LOM SAULs	< 10.0	nt	nt	nt	< 10.0	< 10.0	< 10.0	< 10.0
Miscellaneous													
Fraction of Organic Carbon				-	-	0.0250	nt	nt	nt	0.0100	0.0040	0.0020	0.0080
pH				-	-	9.7	8.7	8.8	8.5	9.0	8.9	8.8	9.7
Soil Organic Matter			%	-	-	4.0	nt	nt	nt	1.6	0.5	< 1.0	2.4
Total Organic Carbon			%	-	-	2.5	nt	nt	nt	1.0	0.40	0.20	0.80

Human Health Generic Quantitative Assessment for Soil (For the Deansgate Level FWRA)

Renaissance Hotel 1602

Key:

Exceedance of the GAC

GAC - Generic Assessment Criteria

Laboratory Report Ref.	Residential With Home Grown Produce	262855	262862	262863	262865	262868	262871	262873	262868	262871	262873
Exploratory Location Ref.		BH01	WS01	WS02	WS02	WS03	WS04	WS05	WS03	WS04	WS05
Sample Depth (m)		0.40	1.20	0.50	2.30	0.40	1.30	1.30	0.40	1.30	1.30
Sample Date		20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021

Phenols													
Phenol	mg/kg	440	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
M,P-Cresol	mg/kg	-	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
O-Cresol	mg/kg	-	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
2,4-Dimethylphenol	mg/kg	-	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
2,3-Dimethylphenol	mg/kg	-	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
2,3,5-trimethylphenol	mg/kg	-	LQM S4ULs	< 1	n/t	n/t	n/t	< 1	n/t	n/t	n/t	< 1	n/t
Total Monohydric Phenols	mg/kg	-	LQM S4ULs	< 5	n/t	n/t	n/t	< 5	n/t	n/t	n/t	< 5	n/t
Alkyl and Aryl Alkyls													
Heptane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Octane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Nonane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Benzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
Toluene	ug/kg	-		< 10.0	< 10.0				< 10.0				
Ethylbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
m,p-xylene	ug/kg	-		< 10.0	< 10.0				< 10.0				
o-xylene	ug/kg	-		< 10.0	< 10.0				< 10.0				
cis-1,2-dichloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,1-Dichloroethane	ug/kg	2500	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Chloroform	ug/kg	1200	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Tetrachloromethane	ug/kg	26	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
1,1,1-Trichloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Trichloroethylene	ug/kg	-		< 10.0	< 10.0				< 10.0				
Tetrachloroethylene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,1,1,2-Tetrachloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,1,2,2-Tetrachloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Chlorobenzene	ug/kg	460	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Bromobenzene	ug/kg	910	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Bromodichloromethane	ug/kg	19	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Methylethylbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,1-Dichloro-1-propene	ug/kg	-		< 10.0	< 10.0				< 10.0				
trans-1,2-dichloroethylene	ug/kg	-		< 10.0	< 10.0				< 10.0				
2,2-Dichloropropane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Bromochloromethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,2-Dichloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Dibromomethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,2-Dichloropropane	ug/kg	24	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
cis-1,3-Dichloro-1-propene	ug/kg	-		< 10.0	< 10.0				< 10.0				
trans-1,3-Dichloro-1-propene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,1,2-Trichloroethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Dibromochloromethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,3-Dichloropropane	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,2-dibromoethane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Styrene	ug/kg	35000	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Propylbenzene	ug/kg	40000	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
2-Chlorotoluene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,2,4-Trimethylbenzene	ug/kg	410	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
4-Chlorotoluene	ug/kg	-		< 10.0	< 10.0				< 10.0				
t-butylbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,3,5-Trimethylbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1-methylpropylbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
p-cymene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,3-Dichlorobenzene	ug/kg	440	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Buflbenzene	ug/kg	-		< 10.0	< 10.0				< 10.0				
1,2-Dibromo-3-chloropropane	ug/kg	-		< 10.0	< 10.0				< 10.0				
Hexachlorobutadiene	ug/kg	320	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
1,2,3-Trichlorobenzene	ug/kg	1500	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Naphthalene	ug/kg	2300	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
1,2,4-Trichlorobenzene	ug/kg	2600	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
1,4-Dichlorobenzene	ug/kg	61000	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
1,2-Dichlorobenzene	ug/kg	24000	CLAIRE GAC	< 10.0	< 10.0				< 10.0				
Bromoform	ug/kg	5200	CLAIRE GAC	< 10.0	< 10.0				< 10.0				

Controlled Waters Generic Quantitative Assessment for Soil Leachate (For the Deansgate Level FWRA)

Renaissance Hotel 1602

Key:	
	Exceedance of the Drinking Water GAC
	Exceedance of Environmental Quality GAC
	Exceedance of both GAC
	GAC - Generic Assessment Criteria

Laboratory Report Ref.				262855	262862	262863	262865	262868	262871	262873
Exploratory Location Ref.				BH01	WS01	WS02	WS02	WS03	WS04	WS05
Sample Depth (m)				0.40	1.20	0.50	2.30	0.40	1.30	1.30
Sample Date				20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021
Made Ground / Natural ?				MG	MG	MG	MG	MG	MG	MG
GAC Ref.										
Units										
Heavy Metals and Metalloids										
Chromium (III)	ug/l	50	4.7	15	< 5	< 5	< 5	< 5	< 5	6
Arsenic 2:1 extract	ug/l	10	50	99	22	< 5	< 5	6	11	24
Barium 2:1 extract	ug/l	700	-	17	5	33	25	15	11	< 5
Beryllium 2:1 extract	ug/l	12	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Boron 2:1 extract	ug/l	1000	2000	89	< 5	10	< 5	< 5	7	< 5
Cadmium 2:1 extract	ug/l	5	0.08	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chromium 2:1 extract	ug/l	50	4.7	15	< 5	< 5	< 5	< 5	< 5	6
Copper 2:1 extract	ug/l	2000	1 (bioavailable)	86	56	63	44	44	42	37
Lead 2:1 extract	ug/l	10	1.2	10	< 5	< 5	< 5	< 5	< 5	< 5
Mercury 2:1 extract	ug/l	1	-	0.2	0.1	0.1	0.1	< 0.1	0.2	0.1
Molybdenum 2:1 extract	ug/l	-	-	8	< 5	< 5	< 5	< 5	< 5	< 5
Nickel 2:1 extract	ug/l	20	4	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Selenium 2:1 extract	ug/l	10	-	9	< 5	< 5	< 5	< 5	< 5	< 5
Vanadium 2:1 extract	ug/l	-	20	62	6	< 5	< 5	5	< 5	8
Zinc 2:1 extract	ug/l	3000	10.9 (bioavailable)	20	11	8	23	14	9	8
Inorganics										
Hexavalent chromium	ug/l	-	3.4	100	< 100	< 100	< 100	< 100	< 100	< 100
Free Cyanide	ug/l	-	1 (free)	5	< 5	< 5	< 5	< 5	< 5	< 5
Total Cyanide	ug/l	50 (total)	-	5	< 5	< 5	< 5	< 5	< 5	< 5
PAHs										
Naphthalene Leachate GCMS	ug/l	-	-	0.01	0.02	0.02	0.01	0.04	< 0.01	0.02
Acenaphthylene Leachate GCMS	ug/l	-	-	0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	0.01
Acenaphthene Leachate GCMS	ug/l	-	-	0.01	0.01	0.03	0.01	0.14	0.01	0.01
Fluorene Leachate GCMS	ug/l	-	-	0.01	< 0.01	0.01	< 0.01	0.02	< 0.01	0.01
Phenanthrene Leachate GCMS	ug/l	-	-	0.01	0.04	0.19	0.06	1.29	0.03	0.08
Anthracene Leachate GCMS	ug/l	-	0.1	0.01	0.01	0.05	0.01	0.13	0.01	0.03
Fluoranthene Leachate GCMS	ug/l	-	0.0063	0.01	0.02	0.18	0.02	0.22	0.05	0.09
Pyrene Leachate GCMS	ug/l	-	-	0.01	0.04	0.22	0.02	2.12	0.06	0.10
Benzo (a) anthracene Leachate GCMS	ug/l	-	-	0.01	0.01	0.04	< 0.01	0.27	0.03	0.05
Chrysene Leachate GCMS	ug/l	-	-	0.01	0.02	0.11	< 0.01	0.38	0.02	0.05
Benzo (b) fluoranthene Leachate GCMS	ug/l	0.1 (sum)	Use BaP marker	0.01	0.02	0.06	< 0.01	0.34	0.02	0.04
Benzo (k) fluoranthene Leachate GCMS	ug/l	0.1 (sum)	Use BaP marker	0.01	0.02	0.06	< 0.01	0.30	0.02	0.03
Benzo (a) pyrene Leachate GCMS	ug/l	0.01	0.0002	0.01	0.04	0.07	< 0.01	0.25	0.02	0.04
Indeno (1,2,3-cd) pyrene Leachate GCMS	ug/l	0.1 (sum)	Use BaP marker	0.01	0.01	0.03	< 0.01	0.26	< 0.01	0.02
Dibenzo(a,h)anthracene Leachate GCMS	ug/l	-	-	0.01	0.01	0.02	< 0.01	0.18	< 0.01	0.01
Benzo(g,h,i)perylene Leachate GCMS	ug/l	0.1 (sum)	Use BaP marker	0.01	0.02	0.04	< 0.01	0.38	0.01	0.03
Total PAH(16) Leachate GCMS	ug/l	-	-	0.01	0.32	1.15	0.18	6.31	0.32	0.62



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