

Ref: 12-123-L6
Date: 7th October 2021**Julie Connelly**
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BY Email

SUPPLEMENTARY SITE INVESTIGATION BELLE VUE GREYHOUND STADIUM, LEVENSHULME

Further to the completion of our recent supplementary Ground Investigation works, carried out in September 2021, E3P has prepared an initial Geoenvironmental Site Investigation summary.

Site Address	Belle Vue Greyhound Stadium, Kirkmanshulme Lane, Manchester, M18 7BD
Grid Reference	E387870, N396070
Site Area	4.67 Ha

SITE INVESTIGATION

Ground Investigation Works	During the initial phase of works in 2018, compiled within the Phase I and II Residential Site Assessment (ref: 12-123-R1, dated August 2019) and in the phase of supplementary works in 2021 (ref: 12-123-L5, dated April 2021) several areas of the site could not be accessed. As such, the Remediation and Enabling Works Strategy for the site (ref: 12-123-R2, dated June 2021) advised further investigation works to be completed post-demolition of the onsite building. This report summarises the findings of the investigation beneath the on-site building which has now been demolished.
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<p>Ground Investigation Works</p>	<p>E3P completed a supplementary, post-demolition, intrusive ground investigation in September 2021, comprising eight mechanically excavated trial pits (TP401-TP408) with environmental samples taken from the Made Ground and natural strata. An updated Exploratory Hole Location Plan (Drawing 12-123-005) is appended to this letter.</p> <p>The supplementary investigation targeted areas beneath the former building footprint, and within the raised area that created former steps in the east of the site, as shown on the Remediation Issues Plan (Drawing 12-123-010) appended to this letter. Selected samples were subjected to chemical testing for heavy metals, PAH, TPH and asbestos identification.</p>
<p>Ground Conditions</p>	<p>MADE GROUND – 0.00 m bgl to 1.60 m bgl</p> <p>Made Ground deposits were encountered within all locations to a maximum proven depth of 4.50 m bgl (TP407). In general, deposits comprised black to greyish brown, gravelly clay with occasional cobbles. Gravel comprised brick, concrete, timber and ceramic.</p> <p>Within TP406, a band of dark grey reworked clay with frequent organic matter was encountered at 1.20 m bgl.</p> <p>A band of black gravel with hydrocarbon odour and an oily sheen was identified within TP407 at 4.00 m to 4.50 m bgl.</p> <p>ACM was identified within soils at TP408 from circa 1.00 m bgl to 2.50 m bgl, therefore the pit was terminated and the full extent of the Made Ground was not proven.</p> <p>DRIFT – 0.60 m bgl to 2.60 m bgl</p> <p>Drift deposits were encountered within all locations. Drift deposits within TP401 - 403 comprised a firm to stiff gravelly CLAY. Gravel comprised of coal and mudstone.</p> <p>Within TP404 - 408, drift deposits comprised a firm, grey mottled brown CLAY. The findings of the supplementary trial holes are in line with the findings of the initial site investigations.</p> <p>SOLID – The solid geology was not encountered within this site investigation. However, previous investigations encountered weathered red SANDSTONE at 15.10 m bgl in BH101 and 16.60 m bgl in BH102.</p> <p>GROUNDWATER – Groundwater was not encountered during the supplementary site investigation. However, groundwater strikes were encountered in the initial investigation at 13.00 m bgl in BH101 and at depths between 0.40 m and 1.30 m bgl in the previous window sample probeholes and mechanically excavated trial pits.</p>

CONTAMINATED LAND ASSESSMENT

<p>Human Health</p>	<p>The previous site investigations in 2018 and 2021 identified the presence of elevated metals and PAHs within a number of Made Ground samples, particularly in the eastern sector of the site. In these areas, chemical laboratory analysis had also identified several petroleum hydrocarbon hotspots within Made Ground deposits. Slightly elevated naphthalene was also identified in TP106 in the southeastern corner. Asbestos was not identified within any of the twelve samples previously tested, but given the nature of the site, its presence could not be entirely discounted.</p>
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	<p>An updated Tier I human health risk assessment has been undertaken using the chemical analysis results of the soils and comparing them to the relevant Tier I criteria for residential end-use with gardens. This is provided within Table 1.1, appended to this letter. This assessment has identified the presence of elevated heavy metals and non-volatile PAHs within the shallow Made Ground at TP401, TP402, TP404, TP406, TP407 and TP408. Asbestos above the Generic Assessment Criteria has been identified within TP404 (0.30 m) with a quantification of <0.001%.</p> <p>Naphthalene and mercury have been identified within samples of the Made Ground at TP407 (0.50 – 4.50 m) and TP408 (2.50 m). These determinands pose a risk to future end-users through the inhalation of indoor vapour.</p> <p>The majority of the identified elevated concentrations have primary exposure pathways related to dermal contact and ingestion and soil ingestion. These exceedances can be mitigated by the installation of a 600 mm chemically suitable cover system within all proposed garden areas.</p> <p>Volatile contaminants present a vapour inhalation risk within indoor spaces.</p> <p>TP408 identified visual pieces of ACM within the soils during the excavation. With reference to the remedial strategy, soils should be subjected to being picked to remove the physical pieces of asbestos by a licensed contractor. These pieces should be appropriately handled and removed off-site to a licensed facility. The remaining soils should be subjected to asbestos quantification prior to their placement in an area of suitability on the site. The placement of soils should be in line with the generated Asbestos CSM presented within the Remedial Strategy for the site.</p> <p>Asbestos has a primary exposure pathway via fibre inhalation. Chemical testing has identified asbestos at <0.001% in the form of amosite in shallow Made Ground at TP404 (0.30 m). No visual signs of asbestos-containing material (ACM) were encountered during the ground investigation; therefore it is likely only trace fibres are present within these localised soils. Referring to the Proposed Development Plan (drawing ref: 12-123-004) and the remediation strategy (ref: 12-123-R2 Rev 4) the impacted soils will be placed under a plot where they originated from. Soils placed below hardstanding are permitted to contain <0.001% asbestos, as such, there will not be a requirement for hotspot removal.</p> <p>The localised mercury and naphthalene hotspots previously identified, will require excavation, delineation and chemical validation to ensure that materials retained on-site are chemically suitable for re-use. With reference to Table 1.3 in the appendices, the threshold levels for mercury and naphthalene within POS below the cover system are 30 mg/kg and 1200 mg/kg respectively, and so soils may be placed there or removed from the site. Soils remaining in situ should be chemically validated to ensure no risk remains to the end-user.</p> <p>Chemical analysis of the natural CLAY drift deposits have identified these soils to be acceptable for use as subsoil within the proposed garden areas; however, further chemical validation samples will be required to confirm this.</p>
<p>Controlled Waters</p>	<p>Previously in the 2018 and 2021 investigations, no significant risk to controlled waters was determined, due to there being no elevated concentrations identified within the groundwater or leachate analysis.</p>



	An updated Tier 1 assessment for controlled waters has been undertaken utilising the leachate sample obtained from TP402. Considering the hydrogeological setting of the site that confirms the underlying aquifer to be the critical controlled waters receptor, the chemical results have been compared to Drinking Water Standards (DWS). The comparison to DWS in Table 1.2 has not identified any exceedances. As such, there is considered to be no unacceptable risk to controlled waters.
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RECOMMENDATIONS

Based on the findings of the geoenvironmental site assessment, the following additional works are recommended to be completed in due course:

- ✳ The use of a clean cover system in proposed garden plots comprising 450 mm subsoil and 150 mm of topsoil.
- ✳ Hotspot removal from TP407 between 0.50 m to 4.50 m bgl for naphthalene and mercury with soils remaining subjected to chemical validation.
- ✳ Hotspot removal of TP408 for naphthalene at 2.50 m bgl with soils remaining subjected to chemical validation.
- ✳ Removal of visual ACM from TP408 with soils remaining subjected to asbestos quantification prior to re-use on site.

I trust this information is satisfactory to your requirements, and should I be able to be of any further assistance, please do not hesitate to contact me.

Yours sincerely,

Olivia Jackson
Project Manager

For and on behalf of E3P Ltd

Enclosed:

Human Health Tier 1 Table
Controlled Waters Tier 1 Table
Remedial Strategy Target Values
Proposed Development Plan
Exploratory Hole Location Plan
Remediation Issues Plan
Exploratory Hole Logs
Chemical Testing Certificates



TABLE 1.1 SUMMARY OF INORGANIC AND HYDROCARBON TOXICITY ASSESSMENT FOR A RESIDENTIAL END USE

DETERMINANT	UNITS	GAC	N	MC	LOC. OF EX	PATHWAY	ASSESSMENT
Arsenic	mg/kg	37	9	34	-	1	No Further Action
Cadmium	mg/kg	11	9	0.6	-	1	No Further Action
Chromium (VI)	mg/kg	6.1	9	<4.0	-	1	No Further Action
Lead	mg/kg	200	9	620 400 340 260	TP407 0.50m TP407 4.50m TP401 0.30m TP408 2.50m	1	Further Action
Mercury	mg/kg	1.2	9	1.7 1.6	TP407 0.50m TP407 4.50m	2	Further Action
Nickel	mg/kg	180	9	49	-	1	No Further Action
Selenium	mg/kg	250	9	<1.0	-	1	No Further Action
Copper	mg/kg	2400	9	410	-	1	No Further Action
Zinc	mg/kg	3700	9	380	-	1	No Further Action
Cyanide - Total	mg/kg	791	9	1.3	-	1	No Further Action
Phenols - Total.	mg/kg	210	9	< 1.0	-	1	No Further Action
Asbestos	Fibres	NFD	9	Amosite	TP404 0.30m	4	Further Action
Naphthalene	mg/kg	2.3	9	6.2 3.8 3.3	TP407 4.50m TP408 2.50m TP407 0.50m	3	Further Action
Acenaphthylene	mg/kg	170	9	0.85	-	2	No Further Action
Acenaphthene	mg/kg	210	9	15	-	1	No Further Action
Fluorene	mg/kg	170	9	9.2	-	1	No Further Action
Phenanthrene	mg/kg	95	9	84	-	2	No Further Action
Anthracene	mg/kg	2400	9	20	-	2	No Further Action
Fluoranthene	mg/kg	280	9	88	-	2	No Further Action
Pyrene	mg/kg	620	9	77	-	2	No Further Action
Benzo(a)Anthracene	mg/kg	7.2	9	22 49 18	TP407 4.50m TP408 2.50m TP407 0.50m	2	Further Action
Chrysene	mg/kg	15	9	19 33	TP407 4.50m TP408 2.50m	2	Further Action
Benzo(b)Fluoranthene	mg/kg	2.6	9	19 53 14	TP407 4.50m TP406 1.00m TP402 0.20m TP408 2.50m TP407 0.50m	2	Further Action
Benzo(k)Fluoranthene	mg/kg	77	9	59	-	2	No Further Action
Benzo(a)Pyrene	mg/kg	2.2	9	19 34 15	TP407 4.50m TP402 0.20m TP406 1.00m TP404 0.30m TP401 0.30m TP408 2.50m TP407 0.50m	2	Further Action
Indeno(123-cd)Pyrene	mg/kg	27	9	16	-	2	No Further Action
Dibenzo(a,h)Anthracene	mg/kg	0.24	9	0.42 2.7 3.4 2.2	TP402 0.20m TP406 1.00m TP401 0.30m TP404 0.30m TP407 4.50m TP408 2.50m TP407 0.50m	2	Further Action
Benzo(ghi)Perylene	mg/kg	320	9	19	-	2	No Further Action
TPH C5-C6 (aliphatic)*	mg/kg	42	9	< 1.0	-	3	No Further Action
TPH C6-C8 (aliphatic)*	mg/kg	100	9	< 0.1	-	3	No Further Action
TPH C8-C10 (aliphatic)*	mg/kg	27	9	< 0.1	-	3	No Further Action



DETERMINANT	UNITS	GAC	N	MC	LOC. OF EX	PATHWAY	ASSESSMENT
TPH C10-C12 (aromatic)*	mg/kg	74	9	11	-	3	No Further Action
TPH C12-C16 (aromatic)*	mg/kg	140	9	59	-	3	No Further Action
TPH C16-C21 (aromatic)*	mg/kg	260	9	260	-	1	No Further Action
TPH C21-C35 (aromatic)*	mg/kg	1100	9	400	-	1	No Further Action

Notes

Main Exposure Pathways: 1 = Soil Ingestion, 2 = Dermal Contact & Ingestion, 3 = Vapour Inhalation (indoor), 4 = Dust Inhalation.
Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; Loc of Ex = Location of Exceedance; NFD = No Fibres Detected

* The Tier 1 GAC for the hydrocarbon fraction is derived from the CIEH assessment for petroleum hydrocarbons Criteria Working Group (CWG) for both aliphatic and aromatic compounds. E3P has utilised the Tier 1 values for aliphatic compounds for the volatile and semi volatile fractions (C₅-C₁₂) and the Tier 1 values for aromatic compound for the non-volatile fractions (C₁₂-C₃₅). The comparison of a total (aliphatic/aromatic) compounds to an individual fraction is considered to be a conservative approach and satisfactory for the protection of human health.



TABLE 1.2 COMPARISON OF LEACHATE ANALYSIS WITH TIER 1 SCREENING LEVELS

DETERMINANT	UNIT	EQS ^{1, 2, 3}	DWS _{3,4,5}	NO. OF LEACHATE SAMPLES	MAX CONC. IN LEACHATE	LOCATION OF EXCEEDANCE	ASSESSMENT
		AA					
Arsenic	µg/l	50	10	1	< 1.0	-	No Further Action
Cadmium	µg/l	0.08-0.25	5	1	< 0.08	-	No Further Action
Chromium (VI)	µg/l	3.4	-	1	< 5.0	-	No Further Action
Chromium (III)	µg/l	4.7	50	1	< 0.4	-	No Further Action
Copper	µg/l	1	2000	1	22	-	No Further Action
Total Cyanide	µg/l	1	50	1	1.4	-	No Further Action
Lead	µg/l	1.2	10	1	2.7	-	No Further Action
Mercury	µg/l	-	1.0	1	< 0.5	-	No Further Action
Nickel	µg/l	4	20	1	4.8	-	No Further Action
Selenium	µg/l	-	10	1	< 4.0	-	No Further Action
Zinc	µg/l	10.9	-	1	12	-	No Further Action
pH	6-9			1	7.8	-	No Further Action
Naphthalene	µg/l	2	10*	1	< 0.01	-	No Further Action
Anthracene	µg/l	0.1	10*	1	< 0.01	-	No Further Action
Benzo[b]fluoranthene	µg/l	0.00017*	10*	1	< 0.01	-	No Further Action
Benzo[k]fluoranthene	µg/l	0.00017*	10*	1	< 0.01	-	No Further Action
Benzo(a)pyrene	µg/l	0.00017*	10*	1	< 0.01	-	No Further Action
Indeno(123-cd)pyrene	µg/l	0.00017*	10*	1	< 0.01	-	No Further Action
Fluoranthene	µg/l	0.0063	10*	1	< 0.01	-	No Further Action
Benzo(ghi)perylene	µg/l	1.7-4	10*	1	< 0.01	-	No Further Action
TPH C5-C6 (benzene)	µg/l	10	1	1	< 1.0	-	No Further Action



TABLE 1.2 COMPARISON OF LEACHATE ANALYSIS WITH TIER 1 SCREENING LEVELS

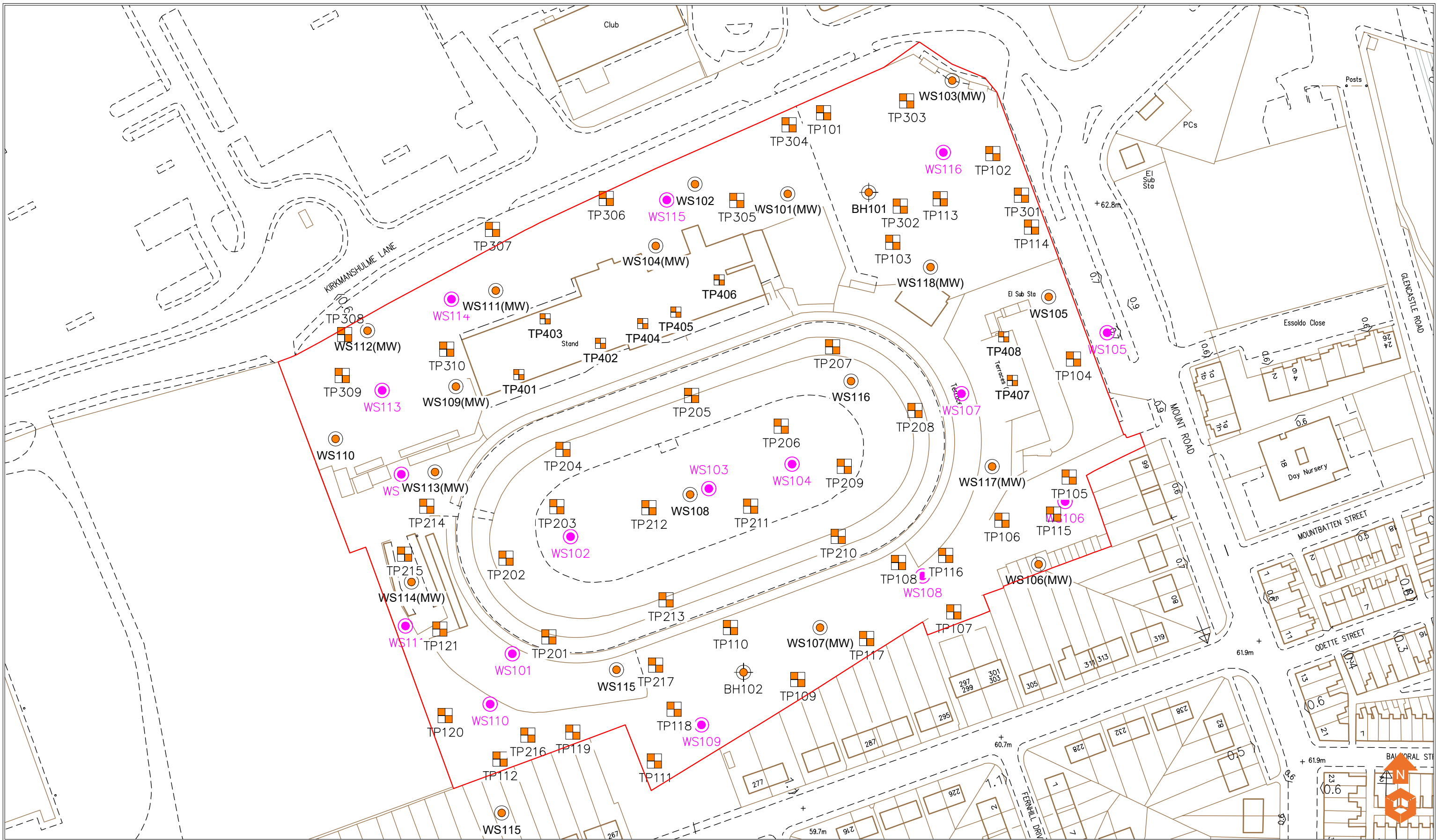
DETERMINANT	UNIT	EQS 1, 2, 3	DWS 3,4,5	NO. OF LEACHATE SAMPLES	MAX CONC. IN LEACHATE	LOCATION OF EXCEEDANCE	ASSESSMENT
		AA					
TPH C6-C8 (toluene)	µg/l	74	700	1	< 1.0	-	No Further Action
TPH C8-C10 (ethyl benzene)	µg/l	20	300	1	< 1.0	-	No Further Action
TPH C10-C12 (xylene)	µg/l	30	500	1	< 1.0	-	No Further Action
TPH C10-C12 (xylene)	µg/l	30	500	1	< 10	-	No Further Action
TPH C12-C16	µg/l	2	90 ⁵	1	< 10	-	No Further Action
TPH C16-C35	µg/l	50#	90 ⁵	1	< 10	-	No Further Action
TPH C5-C6	µg/l	-	15000	1	< 10	-	No Further Action
TPH C6-C8	µg/l	-	15000	1	< 10	-	No Further Action
TPH C8-C10	µg/l	-	300	1	< 10	-	No Further Action
TPH C10-C12	µg/l	-	300	1	< 10	-	No Further Action
TPH C12-C16	µg/l	-	300	1	< 10	-	No Further Action
TPH C16-C21	µg/l	-	300**	1	< 10	-	No Further Action
TPH C21-C35	µg/l	-	300**	1	< 10	-	No Further Action



TABLE 1.3 COPY OF REMEDIAL TARGET VALUES

Determinant	Units	Within 600mm Cover System (Garden)	Hard Standing and >600mm of cover system	Public Open Space 300mm Cover	Public Open Space >300mm	Pathway
Arsenic	mg/kg	37 ⁽ⁱ⁾	40 ⁽ⁱⁱ⁾	79 ⁽ⁱⁱⁱ⁾	640 ^(iv)	1
Cadmium	mg/kg	11 ⁽ⁱ⁾	85 ⁽ⁱⁱ⁾	120 ⁽ⁱⁱⁱ⁾	532 ^(iv)	1
Chromium (Hexavalent)	mg/kg	6 ⁽ⁱ⁾	6 ⁽ⁱⁱ⁾	7.7 ⁽ⁱⁱⁱ⁾	220 ^(iv)	1
Lead	mg/kg	210 ^(vi)	330 ^(vii)	760 ^(viii)	760 ^(viii)	1
Elemental Mercury	mg/kg	1.2 ⁽ⁱ⁾	1.2 ⁽ⁱⁱ⁾	16 ⁽ⁱⁱⁱ⁾	30 ^(iv)	2
Nickel	mg/kg	180 ⁽ⁱ⁾	180 ⁽ⁱⁱ⁾	230 ⁽ⁱⁱⁱ⁾	3400 ^(iv)	1
Selenium	mg/kg	250 ⁽ⁱ⁾	430 ⁽ⁱⁱ⁾	1100 ⁽ⁱⁱⁱ⁾	1800 ^(iv)	1
Copper	mg/kg	2400 ⁽ⁱ⁾	7100 ⁽ⁱⁱ⁾	12000 ⁽ⁱⁱⁱ⁾	44000 ^(iv)	1
Zinc	mg/kg	3700 ⁽ⁱ⁾	40000 ⁽ⁱⁱ⁾	81000 ⁽ⁱⁱⁱ⁾	170000 ^(iv)	1
Phenol	mg/kg	280 ^{(i)(xi)}	280 ^{(xiv)(xi)}	760 ^{(iii)(xi)}	760 ^{(iv)(xi)}	2
Naphthalene	mg/kg	2.3 ^{(i)(xi)}	2.3 ^{(xiv)(xi)}	1200 ^{(iv)(xi)}	1200 ^{(iv)(xi)}	2
Acenaphthylene	mg/kg	170 ^{(i)(xi)}	500 ^(v)	15000 ^{(iii)(xi)}	29000 ^{(iv)(xi)}	3
Acenaphthene	mg/kg	210 ^{(i)(xi)}	500 ^(v)	15000 ^{(iii)(xi)}	29000 ^{(iv)(xi)}	1
Fluorene	mg/kg	170 ^{(i)(xi)}	500 ^(v)	9900 ^{(iii)(xi)}	20000 ^{(iv)(xi)}	1
Phenanthrene	mg/kg	95 ^{(i)(xi)}	500 ^(v)	3100 ^{(iii)(xi)}	6200 ^{(iv)(xi)}	3
Anthracene	mg/kg	500 ^{(i)(xi)}	500 ^(v)	74000 ^{(iii)(xi)}	150000 ^{(iv)(xi)}	3
Fluoranthene	mg/kg	280 ^{(i)(xi)}	500 ^(v)	3100 ^{(iii)(xi)}	6300 ^{(iv)(xi)}	3
Pyrene	mg/kg	500 ^{(i)(xi)}	500 ^(v)	7400 ^{(iii)(xi)}	15000 ^{(iv)(xi)}	3
Benzo(a)Anthracene ⁽ⁱ⁾	mg/kg	7.2 ^{(i)(xi)}	11 ^{(ii)(xi)}	29 ^{(iii)(xi)}	49 ^{(iv)(xi)}	3
Chrysene	mg/kg	15 ^{(i)(xi)}	30 ^{(ii)(xi)}	57 ^{(iii)(xi)}	93 ^{(iv)(xi)}	3
Benzo(b)Fluoranthene ⁽ⁱⁱⁱ⁾	mg/kg	2.6 ^{(i)(xi)}	3.9 ^{(ii)(xi)}	7.1 ^{(iii)(xi)}	13 ^{(iv)(xi)}	3
Benzo(k)Fluoranthene ⁽ⁱⁱⁱ⁾	mg/kg	77 ^{(i)(xi)}	110 ^{(ii)(xi)}	190 ^{(iii)(xi)}	370 ^{(iv)(xi)}	3
Benzo(a)Pyrene ^(vii)	mg/kg	2.2 ^{(i)(xi)}	3.2 ^{(ii)(xi)}	5.7 ^{(iii)(xi)}	11 ^{(iv)(xi)}	3
Indeno(123-cd)Pyrene	mg/kg	27 ^{(i)(xi)}	45 ^{(ii)(xi)}	82 ^{(iii)(xi)}	150 ^{(iv)(xi)}	3
Dibenzo(a,h)Anthracene	mg/kg	0.24 ^{(i)(xi)}	0.31 ^{(ii)(xi)}	0.57 ^{(iii)(xi)}	1.1 ^{(iv)(xi)}	3
Benzo(ghi)Perylene	mg/kg	320 ^{(i)(xi)}	360 ^{(ii)(xi)}	640 ^{(iii)(xi)}	1400 ^{(iv)(xi)}	3
TPH C ₅ -C ₆ (aliphatic)	mg/kg	42 ^{(i)(xi)}	42 ^{(ii)(xi)}	42 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₆ -C ₈ (aliphatic)	mg/kg	100 ^{(i)(xi)}	100 ^{(ii)(xi)}	100 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₈ -C ₁₀ (aliphatic)	mg/kg	27 ^{(i)(xi)}	27 ^{(ii)(xi)}	27 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₀ -C ₁₂ (aliphatic)	mg/kg	130 ^{(i)(xi)}	130 ^{(ii)(xi)}	130 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₂ -C ₁₆ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₁₆ -C ₂₁ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₂₁ -C ₃₅ (aliphatic)	mg/kg	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	1000 ^{(xiv)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₅ -C ₇ (aromatic)	mg/kg	70 ^{(i)(xi)}	370 ^{(ii)(xi)}	370 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₇ -C ₈ (aromatic)	mg/kg	130 ^{(i)(xi)}	860 ^{(ii)(xi)}	860 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₈ -C ₁₀ (aromatic)	mg/kg	34 ^{(i)(xi)}	47 ^{(ii)(xi)}	47 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₀ -C ₁₂ (aromatic)	mg/kg	74 ^{(i)(xi)}	250 ^{(ii)(xi)}	250 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	2
TPH C ₁₂ -C ₁₆ (aromatic)	mg/kg	140 ^{(i)(xi)}	1800 ^{(ii)(xi)}	1800 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₁₆ -C ₂₁ (aromatic)	mg/kg	260 ^{(i)(xi)}	1900 ^{(ii)(xi)}	1900 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
TPH C ₂₁ -C ₃₅ (aromatic)	mg/kg	1000 ^{(xiv)(xi)}	1900 ^{(ii)(xi)}	1900 ^{(ii)(xi)}	10000 ^{(xiv)(xi)}	1
Asbestos	Fibres Volume Weight	NFD	0.001%	NFD	0.001	1





- Location Symbols
- Approximate Window Sample Probehole Location
 - Approximate Window Sample Probehole Location with Install
 - Approximate Trial Pit Location
 - Approximate Cable Percussive Borehole Location
 - Approximate DB Window Sample Probehole Location
 - Approximate Trial Pit Location (2021)

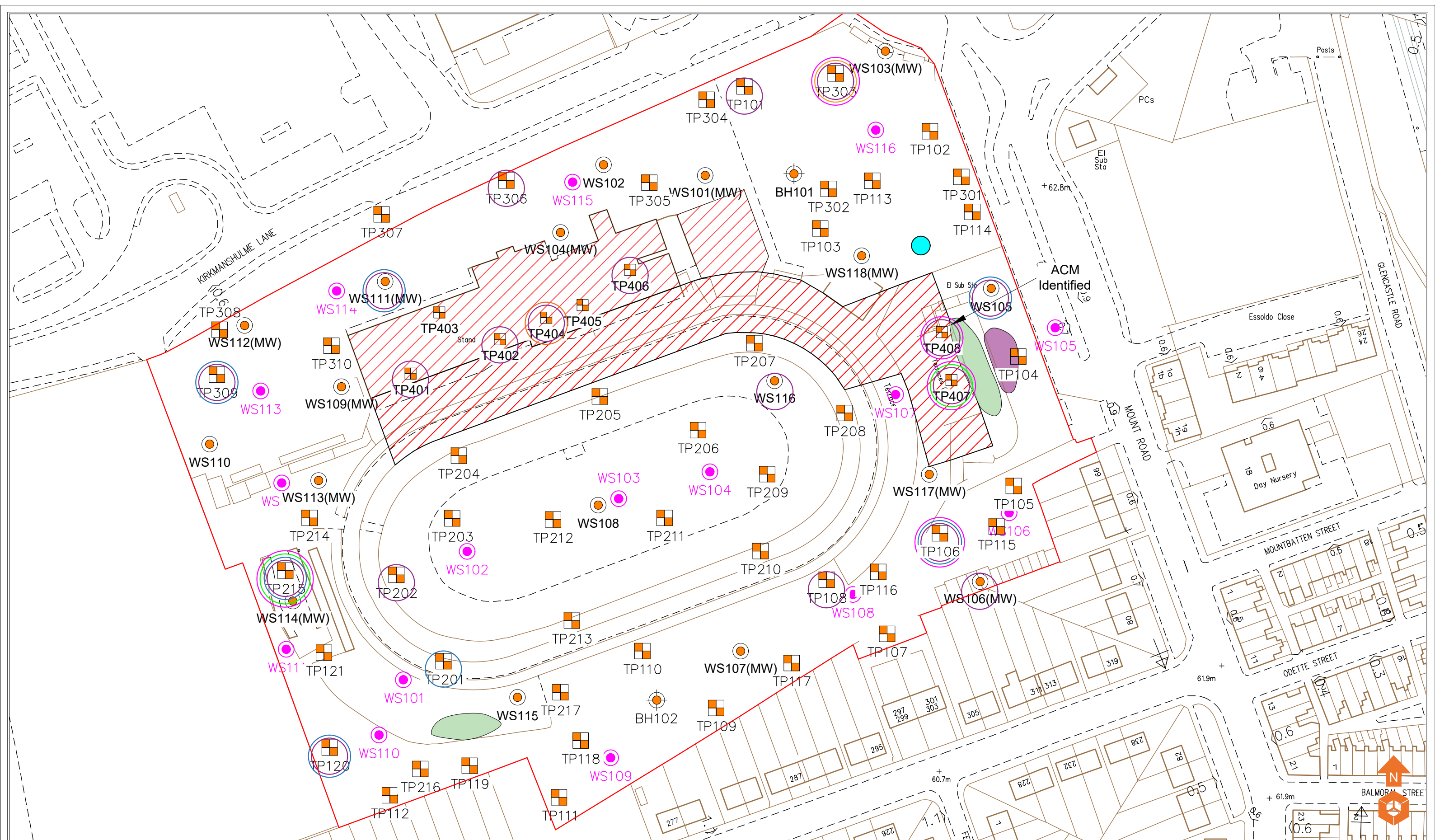
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P1	REVG	11.10.2021	HM	OJ	
P1	REVF	07.10.2021	LM	OJ	
P1	REVE	14.09.2021	HM	GC	
P1	REVD	07.09.2021	EB	OJ	
P1	REVC	18.12.2020	HM	SE	
P1	REVB	26.10.2020	HM	MJ	
P1	REVA	16.02.2018	HM	MD	
Phase	Issue	Date	Drawn	Checked	

Client:		Countryside Properties	
Job Title:		Belle Vue Stadium	

Job No:	12-123	Date:	11.10.2021
Drawing No:	005	Scale:	NTS
Drawing Title:		Exploratory Hole Location Plan	

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Location Symbols					Exceedances				
	Approximate Window Sample Probehole Location		Elevated Heavy Metals and non volatile PAHs identified			Elevated Mercury Identified			
	Approximate Window Sample Probehole Location with Install		Asbestos Identified			TPH C16-C35			
	Approximate Trial Pit Location		Elevated Volatile organic compounds and TPH C5-C16 Identified			Area Not Investigated			
	Approximate Cable Percussive Borehole Location					Area of Japanese Knotweed			
	Approximate DB Window Sample Probehole Location					Area of Fly Tipping			
			Abstraction Boreholes						

Notes:				
P1	REVD	11.10.2021	HM	OJ
P1	REVC	23.06.2021	CB	OJ
P1	REVB	06.01.2021	LM	SE
P1	REVA	04.01.2021	HM	SE
Phase	Issue	Date	Drawn	Checked

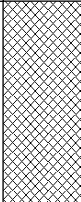
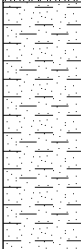
Client:	
Countryside Properties	
Job Title:	
Belle Vue Stadium	

Job No:	12-123
Drawing No:	010
Date:	11.10.2021
Scale:	NTS
Drawing Title:	
Remediation Issues Plan	

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Project Name: Belle Vue	Project No. 12123	Co-ords: 387800.00 - 396090.00 Level:	Date 07/09/2021
Location: Gorton	Dimensions (m): 1.00 Depth 1.80 2.50		Scale 1:30
Client: Countryside			Logged G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES					MADE GROUND: Black slightly sandy, very gravelly clay, with occasional cobbles. Gravel is medium to coarse angular to subangular of brick, concrete, mudstone and sandstone. Cobbles are angular of brick.	
	1.20	ES		0.80			Stiff high strength grey mottled brown slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded of coal and mudstone.	1
	1.50	HVP	76	1.80			End of Pit at 1.80m	2
								3
								4

Trial Pit Photographs



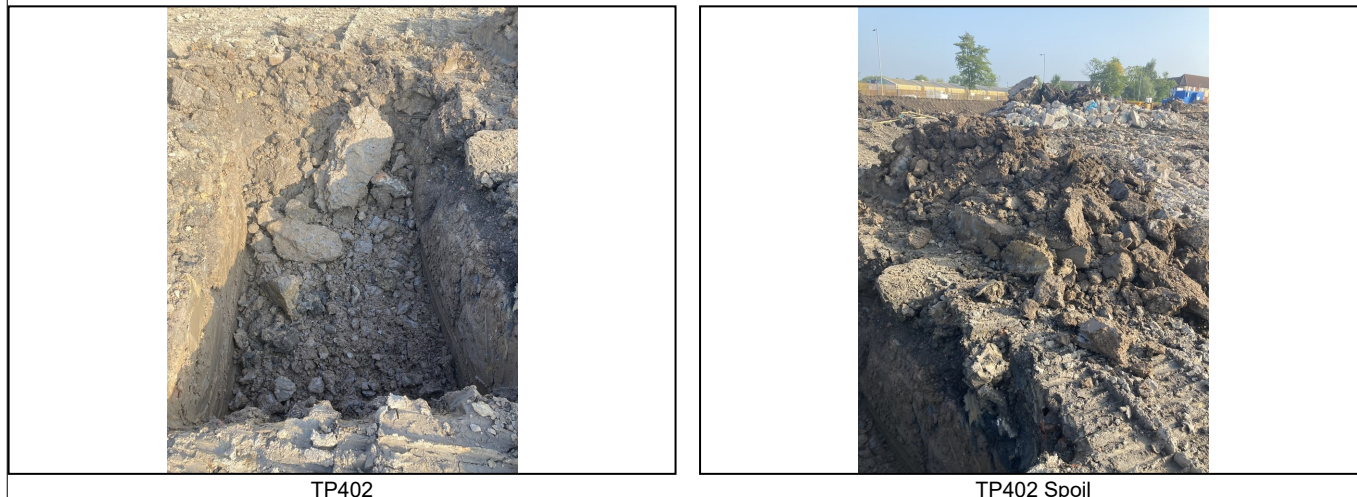
Remarks: 1. Complete.

Stability: Stable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387822.00 - 396094.00 Level:	Date 07/09/2021
Location: Gorton		Dimensions (m): 1.00 2.00	Scale 1:30
Client: Countryside		Depth 2.00	Logged G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					MADE GROUND: Black slightly sandy, very gravelly clay, with occasional cobbles. Gravel is medium to coarse angular to subangular of brick, concrete, mudstone, glass, sandstone and plastic wire. Cobbles are angular of brick.	
	0.40	B		0.60				
	1.00	HVP	98				Stiff high strength grey mottled brown slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded of coal and mudstone.	1
	1.50	ES		2.00				
							End of Pit at 2.00m	2
								3
								4

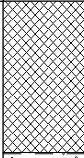
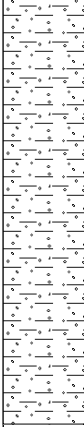
Trial Pit Photographs



Remarks: 1. Complete.

Stability: Stable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387813.00 - 396106.00 Level:	Date 07/09/2021
Location: Gorton	Dimensions (m): Depth 2.30		Scale 1:30
Client: Countryside	2.00		Logged G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40	ES		0.60			MADE GROUND: Firm black slightly sandy, very gravelly clay, with occasional cobbles. Gravel is medium to coarse angular to subangular of brick, concrete, mudstone, glass, plastic, cermaic and sandstone. Cobbles are angular of brick.	
	0.80	ES					Stiff high strength grey mottled brown slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded of coal and mudstone.	1
	1.50	HVP	105	2.30			End of Pit at 2.30m	2
								3
								4

Trial Pit Photographs

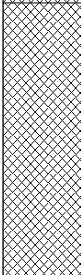
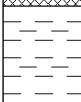


TP403 Spoil

Remarks: 1. Complete.

Stability: Stable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387838.00 - 396101.00 Level:	Date 13/09/2021
Location: Gorton	Dimensions (m): Depth 1.80		Scale 1:30
Client: Countryside	2.30		Logged E. Canham

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30			MADE GROUND: Soft brownish grey slightly gravelly clay. Gravel is fine to coarse subangular of brick. (Reworked clay)	
	1.00	ES		1.40			MADE GROUND: Yellowish grey clayey gravelly fine to medium sand with occasional cobbles. Gravel is fine to coarse of brick, plastic sheeting, cement. Cobbles are angular to subangular of brick.	1
				1.80			Firm brown mottled grey CLAY.	
							End of Pit at 1.80m	2
								3
								4

Trial Pit Photographs



TP404



TP404 Spoil

Remarks: 1. Terminated due to instability of made ground.

Stability: Unstable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387851.00 - 396106.00 Level:	Date 13/09/2021
Location: Gorton	Dimensions (m): 4.50 2.30		Scale 1:30
Client: Countryside	Depth 2.10		Logged E. Canham

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.40			MADE GROUND: Soft greyish brown gravelly clay with occasional cobbles. Gravel is fine to coarse subangular of brick, wood, ceramic and glass. Cobbles are subangular of brick. (Reworked clay)	
	0.80	ES					MADE GROUND: Firm yellow mottled brown gravelly clay. Gravel is fine to coarse subangular to subrounded of brick, plastic and timber. (Band of dark grey clay with rare organic matter at 1.20m bgl, with slight organic odour.) (Reworked clay).	1
	1.20	ES		1.50			Firm grey mottled brown CLAY.	2
				2.10			End of Pit at 2.10m	3
								4

Trial Pit Photographs



TP405

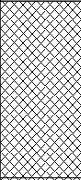
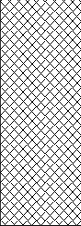


TP405 Spoil

Remarks: 1. Terminated due to instability of made ground.

Stability: Unstable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387867.00 - 396118.00 Level:	Date 13/09/2021
Location: Gorton	Dimensions (m): Depth 2.60		Scale 1:30
Client: Countryside	2.30 		Logged E. Canham

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES					MADE GROUND: Soft orangish brown and grey slightly sandy gravelly clay with occasional cobbles. Gravel is fine to coarse subangular to subrounded of brick, ceramic, plastic and wire. Cobbles are subangular of brick and timber.	
	1.00	ES					MADE GROUND: Dark grey slightly gravelly clay with rare organic matter. Gravel is fine to coarse subangular of brick. (Slight organic odour)	1
				1.60			Firm greyish brown CLAY.	2
				2.60			End of Pit at 2.60m	3
								4

Trial Pit Photographs



TP406



TP406 Spoil

Remarks: 1. Terminated due to instability of made ground.

Stability: Unstable.

Project Name: Belle Vue	Project No. 12123	Co-ords: 387975.00 - 396083.00 Level:	Date 24/09/2021
Location: Gorton		Dimensions (m): 2.00 2.00	Scale 1:30
Client: Countryside		Depth 6.00	Logged G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	ES					MADE GROUND: Dark grey clayey gravelly fine to coarse sand. Gravel is fine to coarse angular to subrounded of brick, mudstone, concrete, clinker, slate, sandstone and plastic.	1
								2
								3
								4

Trial Pit Photographs



Trial Pit 407

Trial Pit 407 Spoil

Remarks: 1. Complete. 2. Oily sheen and hydrocarbon odour in made ground.

Stability: Stable.



Trial Pit Log

TrialPit No
TP407
Sheet 2 of 2

Project Name: Belle Vue

Project No.
12123

Co-ords: 387975.00 - 396083.00
Level:

Date
24/09/2021

Location: Gorton

Dimensions
(m):

2.00

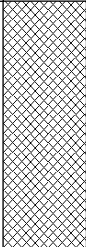
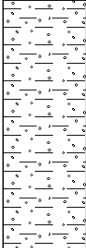
Scale
1:30

Client: Countryside

Depth
6.00

2.00

Logged
G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	4.50	ES					MADE GROUND: Dark grey clayey gravelly fine to coarse sand. Gravel is fine to coarse angular to subrounded of brick, mudstone, concrete, clinker, slate, sandstone and plastic.	
				5.00			Firm grey slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded of mudstone.	5
				6.00			End of Pit at 6.00m	6
								7
								8

Remarks: 1. Complete. 2. Oily sheen and hydrocarbon odour in made ground.

Stability: Stable.



Project Name: Belle Vue	Project No. 12123	Co-ords: 387972.00 - 396096.00 Level:	Date 24/09/2021
Location: Gorton		Dimensions (m): 2.00	Scale 1:30
Client: Countryside		Depth 3.00	Logged G. Calvert

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	2.50	ES		3.00			MADE GROUND: Grey gravelly fine to medium sand with occasional cobbles. Gravel is fine to coarse angular to subangular of concrete, brick, ash, sandstone, mudstone, plastic, roots and glass.	1
								2
								3
							End of Pit at 3.00m	4

Trial Pit Photographs



Trial Pit 408

Remarks: 1. Terminated due to suspected ACM being identified

Stability: Stable.



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Analytical Report Number : 21-97793

Project / Site name:	Belle Vue	Samples received on:	06/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	06/09/2021
Your order number:	12-123-GC-S	Analysis completed by:	14/09/2021
Report Issue Number:	1	Report issued on:	14/09/2021
Samples Analysed:	1 leachate sample - 4 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001641	2001642	2001643	2001644
Sample Reference				TP401	TP402	TP402	TP403
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.20	1.50	0.40
Date Sampled				07/09/2021	07/09/2021	07/09/2021	07/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	15	13	10
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.30	0.30

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.0	8.5	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1300	1200	250	920
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.029	0.25	0.030	0.23
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	58	500	59	450
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	28.9	251	29.5	227
Sulphide	mg/kg	1	MCERTS	5.1	16	< 1.0	2.6
Total Sulphur	mg/kg	50	MCERTS	930	2100	120	500

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.20	0.28	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.22	0.25	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.9	2.6	< 0.05	0.37
Anthracene	mg/kg	0.05	MCERTS	0.50	0.75	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	4.2	4.5	< 0.05	0.80
Pyrene	mg/kg	0.05	MCERTS	4.3	4.5	< 0.05	0.82
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.5	3.2	< 0.05	0.47
Chrysene	mg/kg	0.05	MCERTS	2.0	2.5	< 0.05	0.37
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.1	2.8	< 0.05	0.38
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	1.9	< 0.05	0.24
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.4	3.2	< 0.05	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	1.4	< 0.05	0.22
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.36	0.42	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	1.7	< 0.05	0.24

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	24.5	29.9	< 0.80	4.26
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	20	10	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	25	30	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	58	61	27	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	340	190	13	71
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.0	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	31	35	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	98	63	78

Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001641	2001642	2001643	2001644
Sample Reference				TP401	TP402	TP402	TP403
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.20	1.50	0.40
Date Sampled				07/09/2021	07/09/2021	07/09/2021	07/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	10	15	< 1.0	5.2
TPH (C21 - C35)	mg/kg	1	MCERTS	31	38	< 1.0	39
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	18
TPH Total C5 - C40	mg/kg	10	MCERTS	41	53	< 10	62

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001645
Sample Reference				TP402
Sample Number				None Supplied
Depth (m)				0.20
Date Sampled				07/09/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.8
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	1.4

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	< 1.0
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	22
Lead (dissolved)	µg/l	1	ISO 17025	2.7
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	4.8
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	12



Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001645
Sample Reference				TP402
Sample Number				None Supplied
Depth (m)				0.20
Date Sampled				07/09/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2001641	TP401	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2001642	TP402	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2001643	TP402	None Supplied	1.5	Brown clay with gravel.
2001644	TP403	None Supplied	0.4	Brown clay and loam with gravel.

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In house method.	L005-PL	W	ISO 17025
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-99373

Project / Site name:	Belle Vue	Samples received on:	14/09/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	14/09/2021
Your order number:	12 123 EC U	Analysis completed by:	21/09/2021
Report Issue Number:	1	Report issued on:	21/09/2021
Samples Analysed:	2 soil samples		

Signed

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-99373

Project / Site name: Belle Vue

Your Order No: 12 123 EC U

Lab Sample Number				2010775	2010776
Sample Reference				TP406	TP404
Sample Number				None Supplied	None Supplied
Depth (m)				1.00	0.30
Date Sampled				13/09/2021	13/09/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.5	19
Total mass of sample received	kg	0.001	NONE	0.50	1.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Amosite
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.7	8.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1600	2900
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.27	0.82
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	550	1600
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	273	824
Sulphide	mg/kg	1	MCERTS	22	11
Total Sulphur	mg/kg	50	MCERTS	530	1300

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.36	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.30	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	4.1	1.9
Anthracene	mg/kg	0.05	MCERTS	0.91	0.54
Fluoranthene	mg/kg	0.05	MCERTS	6.8	4.2
Pyrene	mg/kg	0.05	MCERTS	6.0	3.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.5	2.3
Chrysene	mg/kg	0.05	MCERTS	2.2	1.8
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.1	2.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	1.0
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.8	2.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	0.96
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.41	0.29
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.4	1.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	34.5	22.1
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Analytical Report Number: 21-99373

Project / Site name: Belle Vue

Your Order No: 12 123 EC U

Lab Sample Number				2010775	2010776
Sample Reference				TP406	TP404
Sample Number				None Supplied	None Supplied
Depth (m)				1.00	0.30
Date Sampled				13/09/2021	13/09/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.5	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	51
Lead (aqua regia extractable)	mg/kg	1	MCERTS	38	88
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	160

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	4.7
TPH (C16 - C21)	mg/kg	1	MCERTS	22	15
TPH (C21 - C35)	mg/kg	1	MCERTS	29	43
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	13
TPH Total C5 - C40	mg/kg	10	MCERTS	51	75

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-99373
Project / Site name: Belle Vue
Your Order No: 12 123 EC U

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2010776	TP404	0.30	134	Loose Fibres	Amosite	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Analytical Report Number : 21-99373

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2010775	TP406	None Supplied	1	Brown clay and sand with gravel.
2010776	TP404	None Supplied	0.3	Brown clay and sand with gravel.

Analytical Report Number : 21-99373

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-99373
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-12415

Project / Site name:	Belle Vue	Samples received on:	24/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/09/2021
Your order number:	12-123-GC-W	Analysis completed by:	01/10/2021
Report Issue Number:	1	Report issued on:	01/10/2021
Samples Analysed:	3 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-12415
Project / Site name: Belle Vue
Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.1	8.6	6.9
Total mass of sample received	kg	0.001	NONE	0.50	0.50	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.1	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1900	3000	4200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.35	0.64	0.53
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	710	1300	1100
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	353	643	528
Sulphide	mg/kg	1	MCERTS	12	9.7	< 1.0
Total Sulphur	mg/kg	50	MCERTS	980	4000	2300
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.4	2.4	1.9

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.3	-	3.8
Acenaphthylene	mg/kg	0.05	MCERTS	0.85	-	0.72
Acenaphthene	mg/kg	0.05	MCERTS	4.3	-	15
Fluorene	mg/kg	0.05	MCERTS	3.5	-	9.2
Phenanthrene	mg/kg	0.05	MCERTS	32	-	84
Anthracene	mg/kg	0.05	MCERTS	7.3	-	20
Fluoranthene	mg/kg	0.05	MCERTS	33	-	88
Pyrene	mg/kg	0.05	MCERTS	35	-	77
Benzo(a)anthracene	mg/kg	0.05	MCERTS	18	-	49
Chrysene	mg/kg	0.05	MCERTS	13	-	33
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	14	-	53
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	7.7	-	59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	15	-	34
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.6	-	16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.2	-	3.4
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	7.7	-	19

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	204	-	564
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	34	28	30
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	19	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	400	140	410
Lead (aqua regia extractable)	mg/kg	1	MCERTS	620	400	260
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.6	1.7	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	49	27	28
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	380	170	190

Analytical Report Number: 21-12415

Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	3.6	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	53	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	84	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	430	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	570	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	5.4	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	58	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	190	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	350	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	600	-

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	8.4	-	11
TPH (C12 - C16)	mg/kg	4	MCERTS	18	-	59
TPH (C16 - C21)	mg/kg	1	MCERTS	76	-	260
TPH (C21 - C35)	mg/kg	1	MCERTS	140	-	400
TPH (C35 - C40)	mg/kg	10	MCERTS	18	-	83
TPH Total C5 - C40	mg/kg	10	MCERTS	260	-	810

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-

Analytical Report Number: 21-12415

Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-

Analytical Report Number: 21-12415

Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	6.2	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	3.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.79	-
Acenaphthene	mg/kg	0.05	MCERTS	-	15	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	6.1	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	12	-
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	38	-
Anthracene	mg/kg	0.05	MCERTS	-	15	-
Carbazole	mg/kg	0.3	MCERTS	-	3.7	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	37	-
Pyrene	mg/kg	0.05	MCERTS	-	37	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	22	-
Chrysene	mg/kg	0.05	MCERTS	-	19	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	19	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	13	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	19	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	8.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	2.7	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	9.4	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-12415

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2024537	TP407	None Supplied	0.50-1.50	Brown sandy clay with gravel.
2024538	TP407	None Supplied	4.5	Brown sandy clay with gravel.
2024539	TP408	None Supplied	2.50-3.00	Brown loam with gravel.

Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP408	None Supplied	S	2024539	b	Monohydric phenols in soil	L080-PL	b
TP408	None Supplied	S	2024539	b	Speciated EPA-16 PAHs in soil	L064-PL	b
TP408	None Supplied	S	2024539	b	TPH in (Soil)	L076-PL	b