

Updated Risk Assessment and Proposals

The One Architecture
The Old School House
School Road
Tilmanstone
Near DEAL
Kent CT14 0JL

MEC Reference: 26-171

Your Ref: CT

Date: 23/03/2026

Site: Outfall Cottages, Dering Way, Gravesend, Kent DA12 2QH
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Proposed Development

It is proposed to demolish the pair of semi-detached houses (Outfall Cottages) on the site and develop the site with a terrace of 6N° light industrial units all with off road associated parking.

Site plans showing the site location, proposed block plan, proposed floor plans and proposed elevations are shown in appendix 1 (p1 to p4).

The proposals for the development were submitted to and approved by Gravesham Borough Council on the 19th May 2023 (planning reference 20230165). Condition 3 of the approved planning application is to address potential contamination on the site. Condition 3(a) was for a desk study to be carried out.

The expected bedrock geology underlying the site is The Seaford Chalk Formation (firm white chalk with flint seams) with alluvium superficial deposits (silt).

An updated flood risk assessment (FRA) was carried out by Tridax Limited in December 2025. The FRA reported that this site is within a Zone 3 Flood Plain (High Risk) but defended by the Thames tidal defences. The final floor level will be approximately 0.6m above existing ground level. The new building will have a concrete floor slab on piled foundations.

Surface water drainage will be discharged via a controlled discharge system into the local mains drainage system. Foul water will also be discharged via the local mains system, which is believed to be a combined system.

Previous Investigations

The Environment Agency LCRM* Stage 1, Tier 1 Risk Assessment (desk study) report was carried out by Edge Enviro Services Limited (EESL) in July 2024 to address condition 3(a) of the approved planning application. The report concluded that the risk to human health and controlled waters was low. However, the risk to human health and the buildings posed by ground gas impact from on site and off site sources was low to moderate. The report also concluded that the risk to below ground services i.e. potential organic contaminants permeating potable water supply lines was also low to moderate.

* LCRM (Land Contamination Risk Management, published October 2020 and last updated June 2025).

The report recommended that:

“Remove some 50cm from the top of the ground and then take samples”.

“Put a clay barrier around the whole site down to 1.5m - 2m, by digging a trench approximately 50cm across, then fill with clay to stop further contamination of soil by outside sources”.

“Put membrane down over the plot”.

“Make up ground with clean soil”.

“Increase height of plot by some 50cm overall and build clay barrier up 50cm”.

“Concrete over the whole plot, this would give the required protection”.

Updated Risk Assessment of the Previous Phase 1 Investigation

Meadow Environmental Consulting (MEC) was instructed by The One Architecture (TOA) to advise on the conclusions and recommendations in the EESL desk study report and advise accordingly.

MEC assessed the report and advised TOA that further investigation should be carried out for the site to enhance the existing desk study information, to enable a more accurate risk assessment to be carried out and subsequently give a more pragmatic and viable recommendations for the remediation of the site if required.

The risk assessment carried out by EESL in the desk study report was extremely conservative and solely based on the information that EESL had established from their investigation. The recommendations for the remediation were also made based on the information that EESL had gleaned without additional more detailed information that can be obtained as part of the LCRM Stage 1, Tier 1 Risk Assessment and without an options appraisal, if required, as per Stage 2 of the current LCRM guidance.

The site has been used for residential uses since at least 1940 and the houses appear to have been occupied until at least 2022. The adjacent sewage treatment works have also been in place since at least 1940 and the houses have been part of the sewage works site as accommodation for senior staff. Historic aerial and street view photographs of the site and houses are shown in appendix 2.

Despite the residential use of the site for over sixty years the EESL report suggests that “*the site has suffered from continuous pollution over the years*”. No contamination impact to the former occupiers has been reported and no preliminary exploratory investigation work was carried out at the site, which can be carried out as part of the LCRM Stage 1, Tier 1 Risk Assessment, or additionally, assessments of any investigation reports that may have been carried out as part of the development of the nearby area, all of which could have been carried out to reduce the uncertainty for the risk assessment and avoid the need for overly conservative remediation.

The residential cottages have been on the site since at least 1940. The historic aerial photographs show that the rear gardens were well kept up at least 2020. The historic street view photographs show that the cottages were occupied until at least 2022. The nearby Lion Business Park that is immediately to the south on the opposite side of the road was under construction in 2008. The land immediately to the west and northwest was developed between 2013 and 2020.

Potential ground gas impact – the EESL report suggests that the potential risk to the site from ground gas impact is low to moderate. The source of the ground gas was from historic landfill sites in the area (within 250m). The nearest was located just to the west and northwest (approximately 16m from the site at the nearest point), which accepted inert waste. The license was issued in 1976. There is no record of when the last of the waste was deposited but the site was developed between 2013 and 2020. In December 2015 Your Environment (YE) carried out a

LCRM Stage 1, Tier 1 Risk Assessment (desk study) and the report concluded that a phase 2 intrusive site investigation was required including ground gas monitoring. In December 2015 to January 2016 YE carried out an intrusive site investigation at the site that included soil analysis as well as gas monitoring ^a.

Groundwater was struck from 1.5m bgl to 2.0m bgl during the drilling of the exploratory boreholes. Groundwater levels determined during the gas monitoring ranged from 0.08m bgl to 0.91m bgl.

Soil samples were analysed for a suite of tests including metals, PAH's, TPH's, BTEX compounds, SVOC's and VOC's. The results were assessed using LQM/CIEH S4UL's (Land Quality Management/Chartered Institute of Environmental Health, Suitable for Use Levels) for a commercial end use. All the results for all the determinands were very low and significantly below the respective S4UL. The samples were also screened for asbestos fibres and no asbestos fibres were detected in any sample.

Three rounds of gas monitoring were carried out for the investigation. The highest levels of carbon dioxide and methane determined over the monitoring period were 2.5%_{v/v} and 3.6%_{v/v} respectively. The highest peak flow determined was 7.0lhr⁻¹. Taking these worst case values, this gave gas screening values (GSV's) below the upper threshold for a characteristic situation 2 (CS2) (reference CIRIA 665/BS8485:2015+A1:2019). However, the calculated GSV's although significantly below the threshold for a CS2, were above the upper threshold for a CS1 and therefore basic gas protection measures would be required.

The next nearest historic landfill site was located further to the east/southeast (approximately 200m from the site at the nearest point), which accepted inert and household waste. The license was also issued in 1976 but there is no record of when the last of the waste was deposited. Idom Merebrook carried out an intrusive investigation at this site in December 2015 prior to its development with residential houses ^b. As part of this investigation ground gas monitoring was also carried out, albeit only one round of testing. The highest levels of carbon dioxide and methane determined from the monitoring were 1.9%_{v/v} and 0.0%_{v/v} respectively. The highest peak flow determined was 0.0lhr⁻¹. The calculated GSV was significantly below the upper threshold for a CS1 and therefore the risk was deemed negligible and no gas protection measures would be required.

From the gas monitoring results obtained from site investigations previously carried out on the nearby former landfill sites, it would be reasonable to conclude that a CS2 gas protection level will be required for the new light commercial units.

Foundation Proposals

It is proposed the new commercial units will be constructed on piled foundations with a finished ground floor level at 0.6m above the existing ground level with a ground floor slab of 0.2m thick.

^a The YE reports are posted on the Gravesham Borough Council planning portal, planning reference 20151078.

^b The Idom Merebrook report is posted on the Gravesham Borough Council planning portal, planning reference 20151266.

Site Investigation Works

Following discussions between MEC and TOA, MEC advised TOA that investigation works should be carried out at the site such that soil samples could be taken for the requisite analysis to enhance the EESL desk study report and reduce the uncertainty for the risk assessment.

The site was attended by TOA on 18th February 2026 under the guidance of MEC. At the time of the site investigation Outfall Cottages had been demolished with only the concrete oversite remaining. A total of six shallow exploratory trial pits were excavated for the soil sampling using a mini excavator to a maximum depth of 0.78m. Two previously excavated trial pits had also been excavated to deeper depths for geotechnical assessment. The trial pit locations and photographs are shown on the site plan in appendix 1 (p5), which also shows the depths of the samples taken for analysis.

The strata encountered at each location were dark brown/grey loamy occasionally slightly gravelly SILTY CLAY with scattered chalk pellets at all locations except sample location 5. A chalk seam was at sample location 6 at 0.4m. Chalk was encountered at 0.72m at sample location 4. Roots were within the top 0.4m at all locations and very occasional surface/near surface brick fragments were encountered at three locations. No groundwater or perched water was struck within the six shallow exploratory trial pits. Standing water was at approximately 1.0m to 1.2m within the two deeper previously excavated trial pits.

Chemical Analysis Results

All the chemical analysis results are shown in appendix 3, which contains copies of the analysis certificates from the UKAS/MCERTS laboratory.

The average organic content of all the samples tested was 5.8% (with a range of 2.09% to 11.0% of the five samples tested).

The organic content and chemical analysis results are corrected for the stone content i.e. the value reported is for the soil including the stone, if applicable.

Criteria for Assessment

The assessment of the chemical analysis results for the contaminants of concern (COC's) have been based on the published Land Quality Management (LQM)/Chartered Institute of Environmental Health (CIEH) suitable for use levels (S4UL's) using a soil organic matter level of 2.5%.

The S4UL values are based on a commercial site (three storey pre1970 office building, weighted average 8.3 hours a day inside and 0.7 hours per day outside), calculated using the contaminated land exposure assessment (CLEA) model and a sandy loam soil.

Where no published S4UL is available e.g. for lead, the published category 4 screening level (C4SL) will be used for the assessment. C4SL published by DEFRA 2014.

These parameters will give conservative SGV's.

However, if using the assessment criteria outlined the calculated levels are exceeded, a more detailed site specific assessment with further adjustments to the CLEA model may need to be carried out e.g. change the soil type, organic content, building details (area, living space height, floor crack area) and in particular the building type and exposure frequency as this site is not typical of the generic commercial site scenario in the CLEA model.

Metals – S4UL (mg/kg) – Commercial Use

Arsenic – 640mg/kg

Cadmium – 190mg/kg

Mercury – 25.8mg/kg (elemental)^{vap}, 1100mg/kg (inorganic) and 320mg/kg (methyl)

Nickel – 980mg/kg

Selenium – 12000mg/kg

Phenol – 1500mg/kg (based on direct skin contact)

Lead – 2300mg/kg (C4SL 2014) – DEFRA/CL:AIRE Category 4 Screening Level

Chromium – 33mg/kg (based on hexavalent chromium)

Chromium – 8600mg/kg (based on trivalent chromium)

Copper – 68000mg/kg

Zinc – 730000mg/kg

Boron – 240000mg/kg

Total cyanide – 353mg/kg (SNIFFER calculated based on a complex cyanide of 294mg/kg)

SNIFFER – Scotland and Northern Ireland Forum for Environmental Research

C4SL – Category 4 screening level published by CL:AIRE (contaminated land in real environments) in 2014

Vap – vapour saturation limit

For Guidance (Plant Growth):

Copper – 200mg/kg (phytotoxic, pH>7, BS3882:2007 Topsoil Specification)

Nickel – 110mg/kg (phytotoxic, pH>7, BS3882:2015 Topsoil Specification)

Zinc – 300mg/kg (phytotoxic, pH>7, BS3882:2007 Topsoil Specification)

Boron – UK average 4.7mg/kg – 21 mg/kg UKSHS report No7 (EA 2007)

Sixteen most common PAH's – S4UL (mg/kg)

PAH	Sandy Loam Organic Content 2.5%
Naphthalene	460 ^a
Acenaphthylene	97000 ^b
Acenaphthene	97000 ^c
Fluorene	68000
Phenanthrene	22000
Anthracene	540000
Fluoranthene	23000
Pyrene	54000
Benz(a)anthracene	170
Chrysene	350
Benzo(b)fluoranthene	44
Benzo(k)fluoranthene	1200
Benzo(a)pyrene	35
Indeno(123-cd)pyrene	510
Dibenz(ah)anthracene	3.6
Benzo(ghi)perylene	4000

a – Exceeds the soil solubility saturation limit of 183mg/kg.

b – Exceeds the soil solubility saturation limit of 212mg/kg.

c – Exceeds the soil solubility saturation limit of 141 mg/kg.

Southern Water Threshold Limits where Barrier Pipe Must be Used

TPH fractions

Total C₅-C₁₀ 2.0mg/kg

Total C₁₀-C₁₆ 10.0mg/kg

Total C₁₆-C₄₀ 500mg/kg

BTEX

Total BTEX including MTBE 0.1mg/kg

VOC's

Total VOC's 0.5mg/kg

SVOC's

Total SVOC's excluding PAH's 2.0mg/kg

Phenols

Total Phenols (from the SVOC analysis) 2.0mg/kg

6.2.3 Summary of Results

Compound	Commercial S4UL mg/kg	N° of Tests	Min	Max	N° Exceeding S4UL (HH/PG)
METALS (zootoxic)					
Arsenic	640	5	7	17	0
Cadmium	190	5	<1.6	<1.6	0
Chromium (III)	8600	5	8	48	0
Chromium (VI)	33	5	<0.04	<0.04	0
Lead	2300	5	38	648	0
Mercury	25.8 (elemental)	5	<0.7	1.6	0
Selenium	12000	5	<3	<3	0
METALS (zootoxic/phytotoxic)					
Copper	68000/200	5	17	167	0/0
Nickel	980/110	5	9	36	0/0
Zinc	730000/300	5	48	471	0/1
Water soluble Boron	240000/21	5	<0.5	2.4	0/0
ORGANICS					
Phenol	1500	5	<0.5	<0.5	0
Benzo(a)pyrene	35	5	0.15	106	2
Aromatic TPH C ₅ -C ₇	46000	5	<0.01	<0.01	0
Aromatic TPH C ₇ -C ₈	110000	5	<0.01	<0.01	0
Aromatic TPH C ₈ -C ₁₀	8100	5	<0.01	<0.01	0
Aromatic TPH C ₁₀ -C ₁₂	28000	5	0.7	46	0
Aromatic TPH C ₁₂ -C ₁₆	37000	5	2.1	186	0
Aromatic TPH C ₁₆ -C ₂₁	28000	5	<2	1420	0
Aromatic TPH C ₂₁ -C ₄₄	28000	5	<7	6430	0
Aliphatic TPH C ₅ -C ₆	5900	5	<0.1	<0.1	0
Aliphatic TPH C ₆ -C ₈	17000	5	<0.1	<0.1	0
Aliphatic TPH C ₈ -C ₁₀	4800	5	<0.1	<0.1	0
Aliphatic TPH C ₁₀ -C ₁₂	23000	5	<1	3.7	0
Aliphatic TPH C ₁₂ -C ₁₆	82000	5	<0.5	11.1	0
Aliphatic TPH C ₁₆ -C ₄₄	1700000	5	<6	212	0

ORGANICS cont	Commercial S4UL mg/kg	N° of Tests	Min	Max	N° Exceeding S4UL (HH)
Benzene	47	5	<0.001	<0.001	0
Toluene	110000 ^a	5	<0.001	<0.001	0
Ethylbenzene	13000 ^b	5	<0.001	<0.001	0
Xylenes	14000 ^c (p)	5	<0.004	<0.004	0

a – Exceeds the soil vapour saturation limit of 1920mg/kg.

b – Exceeds the soil vapour saturation limit of 1220mg/kg.

c – Exceeds the soil vapour saturation limit of 1350mg/kg.

(p) – para xylene (worse case)

HH = Human Health

PG = Plant growth

Heavy Metals, Cyanides, pH and Phenol

The chemical analysis results show that all of the results of the determinands analysed in the soil samples taken are significantly below the published LQM/CIEH S4UL's or C4SL for commercial use as shown above, and are therefore unlikely to impact human health, the new buildings or below ground services. One sample had a slightly elevated zinc level exceeding the phytotoxic plant growth level that could hinder the growth of the more sensitive plants.

A very slightly alkaline soil pH was determined on the samples ranging from 8.2 to 8.5. These levels are unlikely to impact human health, the new buildings or below ground services.

Asbestos Results

Five soil samples were analysed for asbestos fibres. The results show that no asbestos fibres were found in any of the samples tested indicating that asbestos has not impacted the site from the former uses or other sources at the locations tested.

PAH Results

Most of the levels of the PAH's found are below their respective published LQM/CIEH S4UL for commercial use as shown above and are therefore unlikely to impact human health.

However, there are three PAH's that exceed their respective LQM/CIEH S4UL's in two samples. The benzo(b)fluoranthene, benzo(a)pyrene and dibenz(ah)anthracene are elevated at the location of pits 1 and 2. However, these two locations will be within the footprint of the new building and hard cover access/parking areas respectively and are highly unlikely to impact the end users of the site. The levels found are unlikely to impact the construction staff if the appropriate PPE is worn. The predominant contribution to the exposure pathway for these compounds is the ingestion of soil and indoor dust (equal to or greater than 80%) and outdoor dermal contact (greater than 10%).

BTEX Compounds Results

All the levels of BTEX compounds found are all significantly below the published LQM/CIEH S4UL's for commercial uses as shown above and are therefore unlikely to impact human health, new buildings or below ground services. All the levels determined are below the detection limit for the analytical procedure at <0.001mg/kg to <0.004mg/kg.

Additionally, standard polyethylene pipe could be used for the new water main based on the BTEX including MTBE (methyl tertiary butyl ether) results.

TPH Results

All the levels of TPH's found (aliphatic and aromatic) are all below published LQM/CIEH S4UL's for commercial uses as shown above and are therefore unlikely to impact human health.

The maximum levels found of the TPH's (C₆-C₄₀) in the soils taken from locations where a new water main is likely to be laid are as follows:

Total C₅-C₁₀ <2.0mg/kg

Total C₁₀-C₁₆ 247mg/kg

Total C₁₆-C₄₀ 8062mg/kg

The levels found for the C₁₀-C₄₀ fractions are above the Southern Water threshold at which barrier pipe must be used.

VOC and SVOC Results

Five samples were analysed for VOC (volatile organic compounds) and SVOC (semi volatile organic compounds) from locations across the site where a new water main is likely to be laid.

All the levels of VOC's found are below the detection limit for the analytical procedure at <0.01mg/kg to <0.03mg/kg and are unlikely to impact human health. The total VOC's are below the Southern Water threshold at which barrier pipe must be used.

Most of the levels of SVOC's found are below the detection limit for the analytical procedure at <0.1mg/kg. However there are a few slightly elevated levels of some SVOC's but they are unlikely to impact the end users of the site. The levels found are also unlikely to impact the construction staff if the appropriate PPE is worn.

The worse case total SVOC's at 68m/kg are above the Southern Water threshold (2mg/kg) at which barrier pipe must be used. All of the five samples tested were above the total SVOC's 2mg/kg threshold.

The levels of the phenol compounds taken from the SVOC analysis are mostly below the detection limit for the analytical procedure at <0.1mg/kg. However there are a few slightly elevated levels of some phenolic compounds but they are unlikely to impact the end users of the site. The levels found are also unlikely to impact the construction staff if the appropriate PPE is worn.

The worse case total phenolic compounds at 72m/kg are above the Southern Water threshold (2mg/kg) at which barrier pipe must be used. Four of the five samples tested were above the total phenolic compounds 2mg/kg threshold.

Soil Leachate Results

One soil sample was analysed for potential leachable contaminants. The sample analysed was from pit 3 at a depth of 0.43m that was above the saturated zone (groundwater/perched water). The chemical analysis results from the prepared leachate were assessed against published drinking water inspectorate (DWI) threshold values, or former Environment Agency guidance values, or other published values as shown in the table below. The DWI threshold values are very conservative although the published values cover a wide range of common contaminants.

Determinand	Analysis Result (ug/l unless stated)	DWI Threshold Value (ug/l unless stated)
pH	8.0	5.5-9.5
Arsenic	6.9	10
Cadmium	<0.1	5
Chromium	3.7	50
Copper	10.4	2000
Lead	13.6	10 (15 US EPA)
Mercury	<0.05	1
Nickel	3.6	20
Selenium	<1.1	10
Zinc	9.5	500
Boron	90.5	1000
Total Cyanide as CN	10.9	50
Total Monohydric Phenols	<10	500
PAH - Benzo(a)pyrene	<0.01	0.01
Total PAH (total of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene and indeno[123-cd]pyrene)	All <0.1	0.1
Total PAH (total of 16)	3.35	-
VOC's	All <LOD	-
SVOC's	All <LOD	-
TPH C ₅ -C ₆ mg/l	<1/<1	1 (as benzene)
TPH C ₆ -C ₈ mg/l	<1/<1	-
TPH C ₈ -C ₁₀ mg/l	<1/<1	0.35/1.05
TPH C ₁₀ -C ₁₂ mg/l	<1/<1	0.35/1.05
TPH C ₁₂ -C ₁₆ mg/l	<1/<1	0.35/1.05
TPH C ₁₆ -C ₂₁ mg/l	<1/<1	7.0/1.4
TPH C ₂₁ -C ₃₅ mg/l	<1/<1	7.0/1.4
NB: TPH two values are aliphatic/aromatic		
Benzene	<1	1.0
Toluene	<1	700 (WHO Value)
Ethylbenzene	<1	300 (WHO Value)
Xylene	<1	500 (WHO Value)
MTBE	<1	15

The results show that with the exception of one result all the determinands analysed are below the published threshold values indicating that these compounds are unlikely to leach or are leaching from the below ground strata and impact controlled waters at the location tested.

The one exceedance is the leachable lead. The level found was 13.6ug/l. The drinking water threshold is 10ug/l (at the tap value). For comparison the US EPA value is 15ug/l.

There are no current groundwater or surface water abstractions for potable water supplies within 1.6km.

The DWI value is an 'at the tap' value, which is highly conservative, is only marginally exceeded and is unlikely to significantly impact controlled waters or at a level where the impact to drinking water abstractions would be unacceptable.

Therefore all the soil leachate values determined are unlikely to impact controlled waters at unacceptable levels (including via piled foundations).

Proposals/Recommendations

Discovery Strategy/Watching Brief – A discovery strategy and watching brief (a Competent Person to LCRM protocol) should be in place throughout the groundworks. Should any unsuspected contamination be encountered i.e. discolouration or odours of the soils, the groundworks should cease in that area of the site, the area cordoned off and the watching brief contacted immediately. The suspect area will be investigated, assessed and remediated if required. The details and report of the further investigation work will then be submitted to Gravesham Borough Council for their approval before the construction work recommences in that area of the site.

Gas Protection Measures – From the gas monitoring results obtained from site investigations previously carried out on the nearby former landfill sites and in particular the site just to the west and northwest, it would be reasonable to conclude that a CS2 gas protection level (reference CIRIA 665/BS8485:2015+A1:2019) will be required for the new light commercial units. A CS2 for a commercial/industrial building requires a minimum gas protection score of 1.5 (reference BS8485:2015+A1:2019, Table 4). To achieve a gas protection score of 1.5 the building must have a cast in situ monolithic ground bearing raft or a reinforced cast in situ suspended floor slab with minimal penetrations. The slab must be well reinforced to control cracking to achieve a score of 1.5 (reference BS8485:2015+A1:2019, Table 5). A clear void could also be used. The new commercial units will be constructed on piled foundations with a finished ground floor level at 0.6m above the existing ground level with a ground floor slab of 0.2m thick. Therefore by default a clear void will be created within the construction.

If a beam and block floor is used with the piled foundations; due to the permeability of a beam and block floor, a suitable gas protection membrane (suitably impervious to methane and carbon dioxide) must be used with sufficient sealing around all penetrations and membrane joints.

Photographs should be taken of the construction of the floor slab and void and if a suitable gas protection membrane is used in conjunction with a beam and block floor, its installation should be certified by an approved contractor. This information will be required for inclusion of the closure report (condition 3 (e)).

Landscaping – The site will be completely hard cover on completion of the development occupied by the new building and the hard cover vehicle access and parking areas. Any soft landscaping that may be preferred should be in raised planters and the existing soil should not be used. Clean certified imported topsoil should be used for the raised planters.

New Water Main – The new water main must be laid in barrier pipe.

Construction Personnel – The construction personnel must wear the appropriate PPE including suitable gloves if handling any existing site soils. Normal construction site health and hygiene measures must also be adopted.

This report and its proposals must be submitted and approved by Gravesham Borough Council and must be accompanied by the EESL desk study report.

A handwritten signature in dark ink, appearing to read 'K. Huxley', with a long horizontal flourish extending to the right.

Keith Huxley CSci CChem MRSC MIEnvSc RSoBRA

Encs:

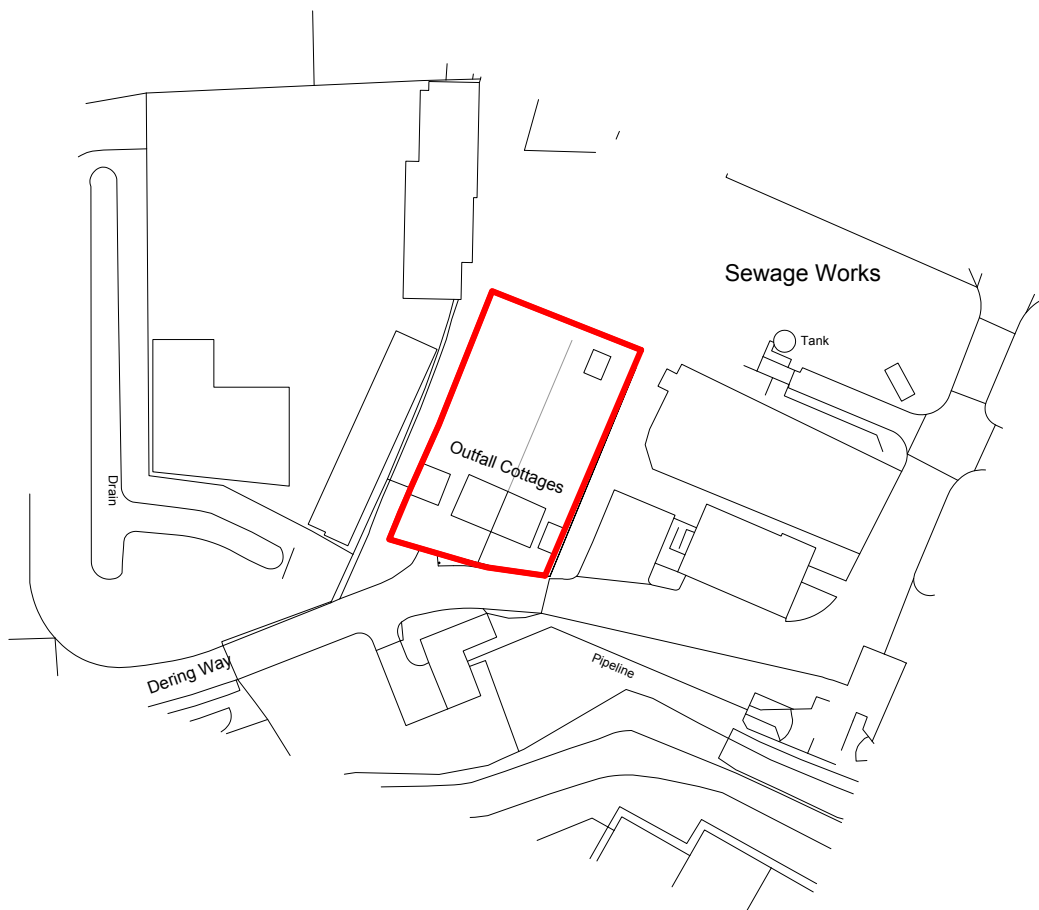
Appendix 1, Site Plans (5 Pages)

Appendix 2, Historic Aerial Photographs and Historic Street View Photographs (8 pages)

Appendix 3, Chemical Analysis Results Certificates (18 pages)

APPENDIX 1

SITE PLANS



LOCATION PLAN 1/1250. A3



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 email cliveldmarsh@aol.com
 The Old School, Timenstone, Kent. CT140JL

scale



PROJECT Proposed Development
 Site of
 Outfall Cottages
 Dering Way,
 Gravesend, Kent

TITLE LOCATION PLAN

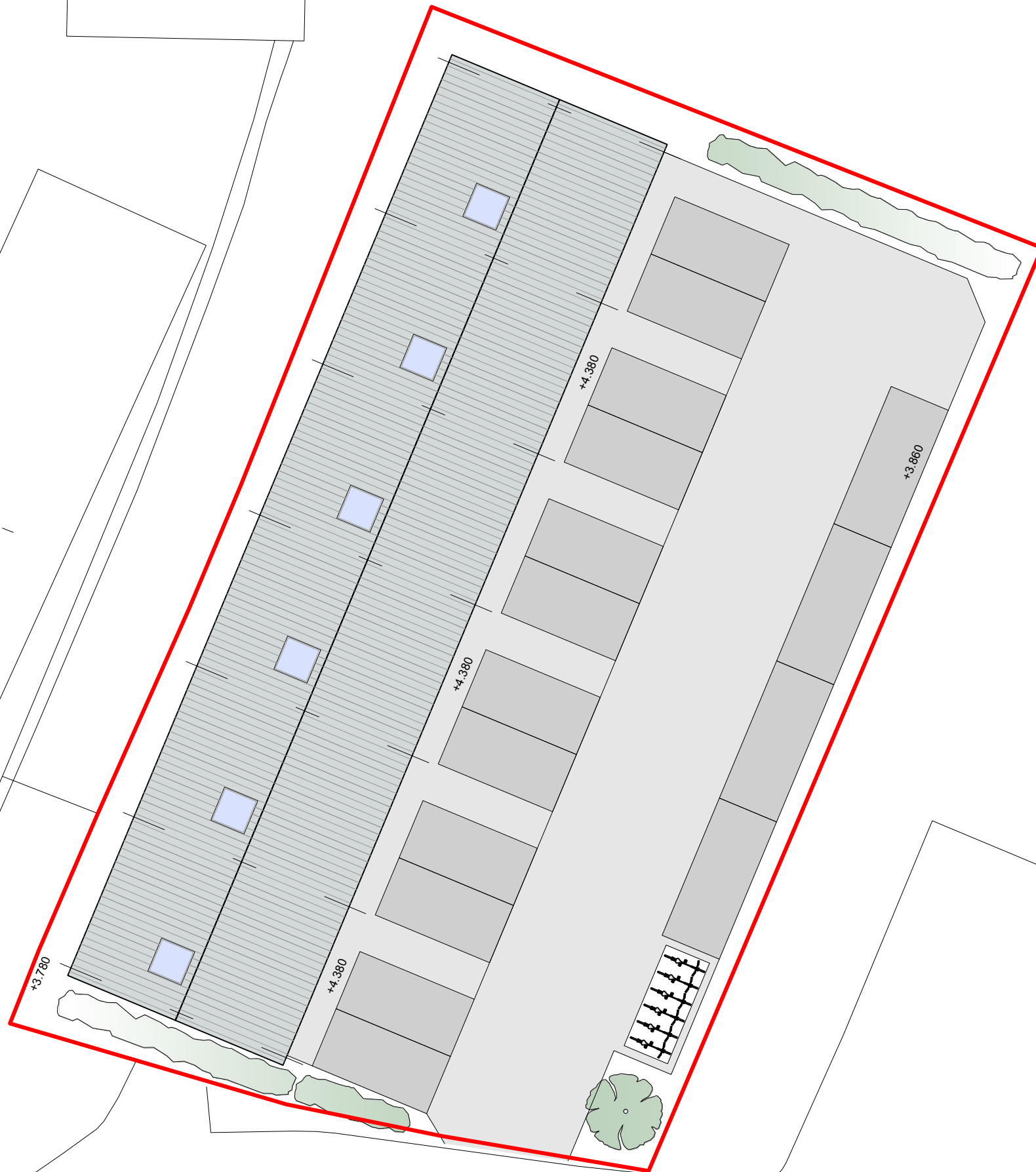
CLIENT

SCALE

DATE DECEMBER, 2025

DRAWING 01/34/2025

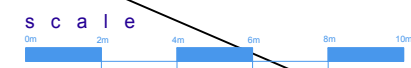
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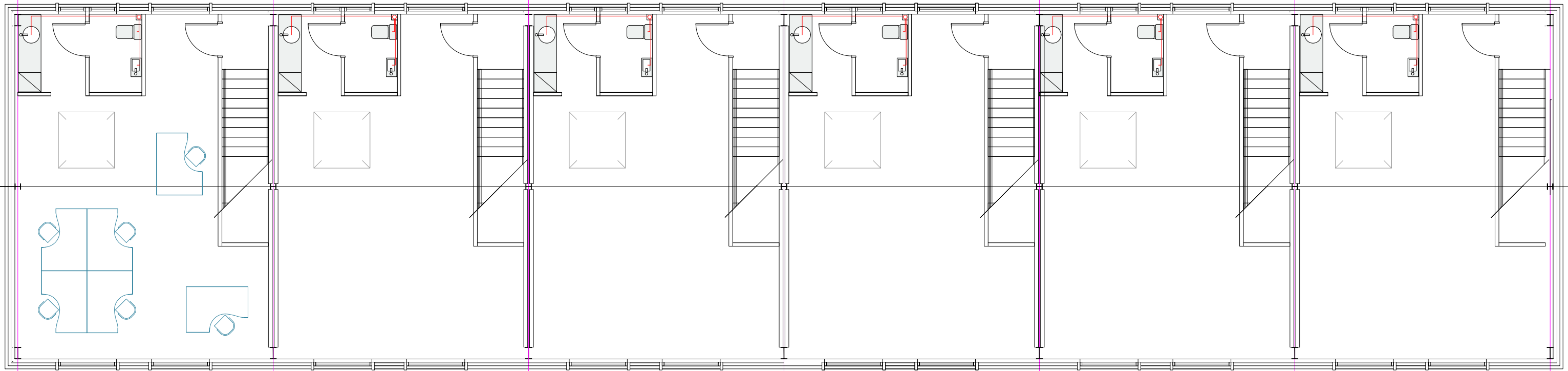
PROPOSED
BLOCK PLAN
1/200. A3



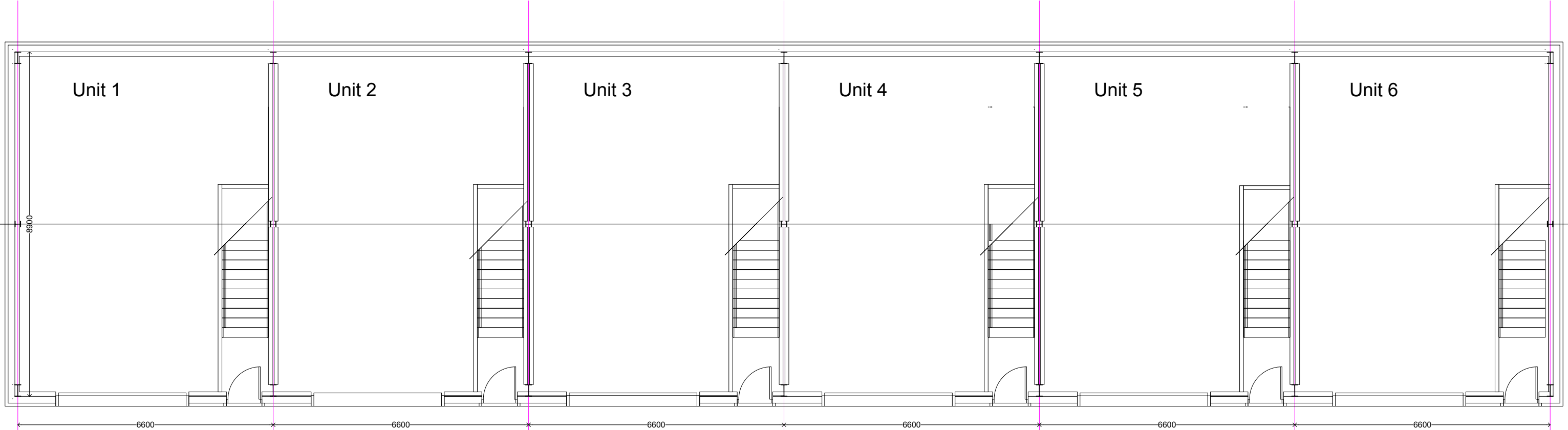
01304 619333 0788 7503636
olive@onearch.co.uk
The Old School, Timenstone, Kent, CT140JL



PROJECT	Proposed Development Site of, Outfall Cottages Dering Way, Gravesend, Kent
TITLE	PROPOSED BLOCK PLAN
CLIENT	
SCALE	
DATE	DECEMBER, 2025
DRAWING	03/34/2025
REVISION	A.

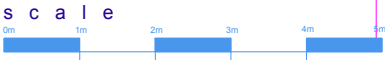


MEZZANINE



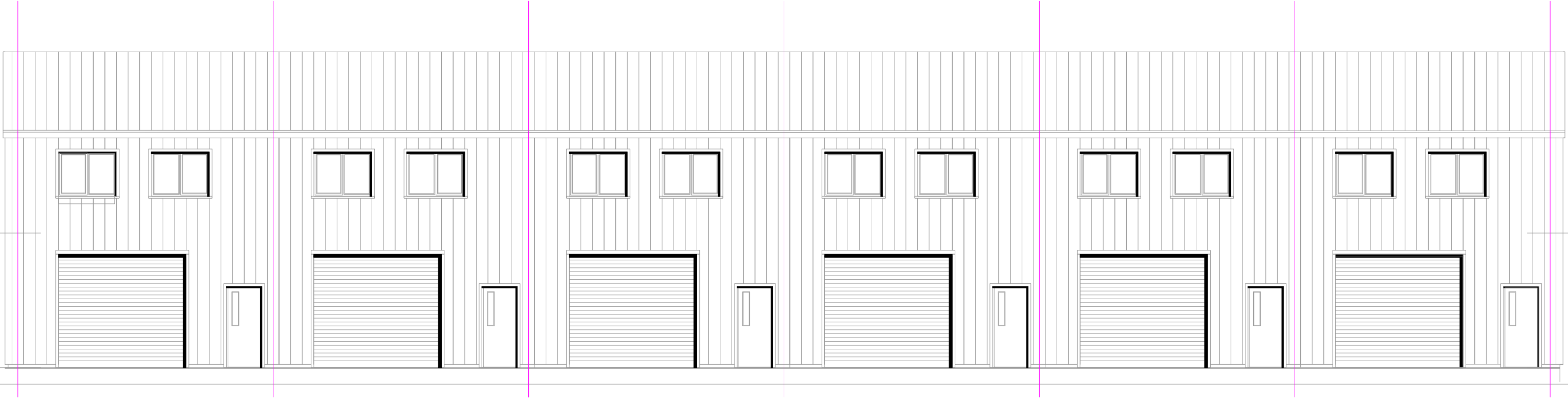
GROUND FLOOR

FLOOR PLANS
1/100. A3

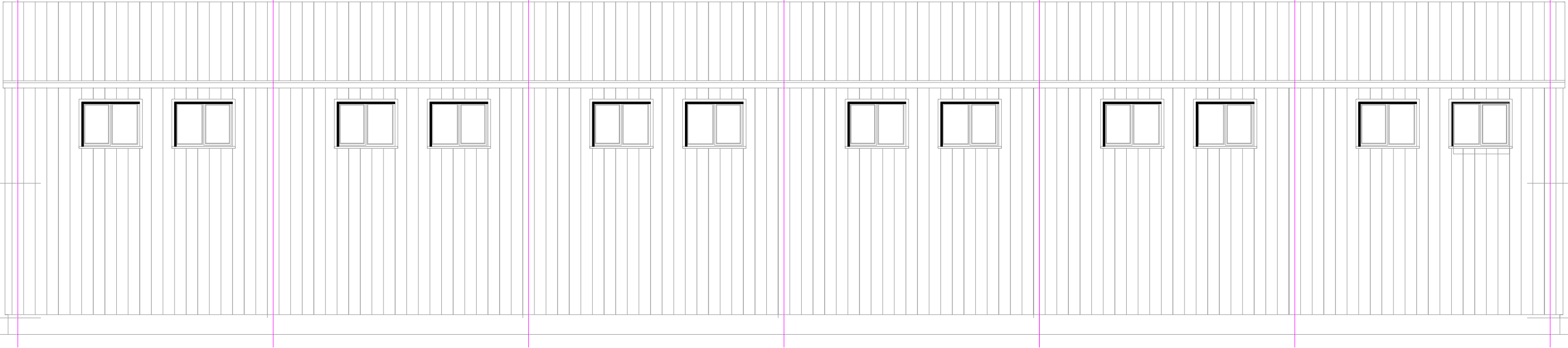


01304 619333 0788 7503636
divedmarsh@aol.com
The Old School, Timenstone, Kent. CT140JL

PROJECT	Proposed Development Site of, Outfall Cottages Dering Way, Gravesend, Kent
TITLE	FLOOR PLANS
CLIENT	
SCALE	
DATE	DECEMBER, 2025
DRAWING	05/34/2025
REVISION	A.



SOUTH EAST

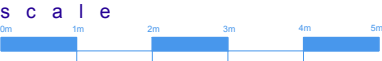


NORTH WEST

ELEVATIONS
1/100. A3



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oliveidmarsh@aol.com
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PROJECT	Proposed Development Site of: Outfall Cottages Dering Way, Gravesend, Kent
TITLE	ELEVATIONS
CLIENT	
SCALE	
DATE	DECEMBER, 2025
DRAWING	05/34/2025
REVISION	A.



SOIL
SAMPLING
1/200. A3



01304 619333 0788 7503636
david@theonearch.co.uk
The Old School, Timarstone, Kent, CT14 0JL



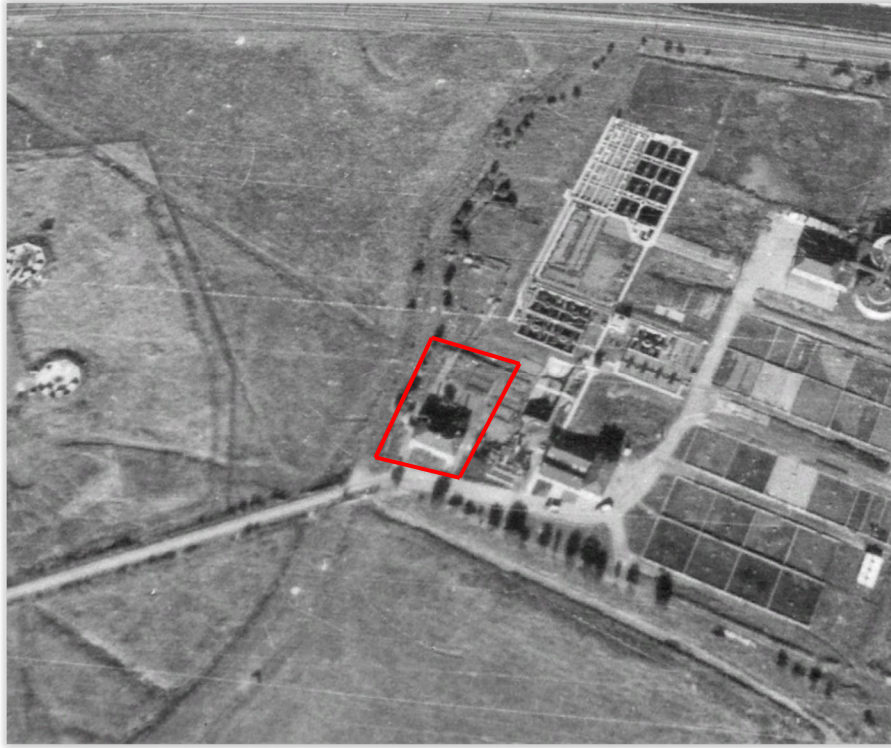
PROJECT	Proposed Development Site of Outfall Cottages Dering Way, Gravesend, Kent
TITLE	SOIL SAMPLING
CLIENT	
SCALE	
DATE	FEBRUARY, 2026
DRAWING	11/34/2025
REVISION	N/A

APPENDIX 2

HISTORIC AERIAL and STREET VIEW PHOTOGRAPHS

All aerial photographs below courtesy of Google Earth

AERIAL PHOTOGRAPH 1 (1940)



AERIAL PHOTOGRAPH 2 (1960)



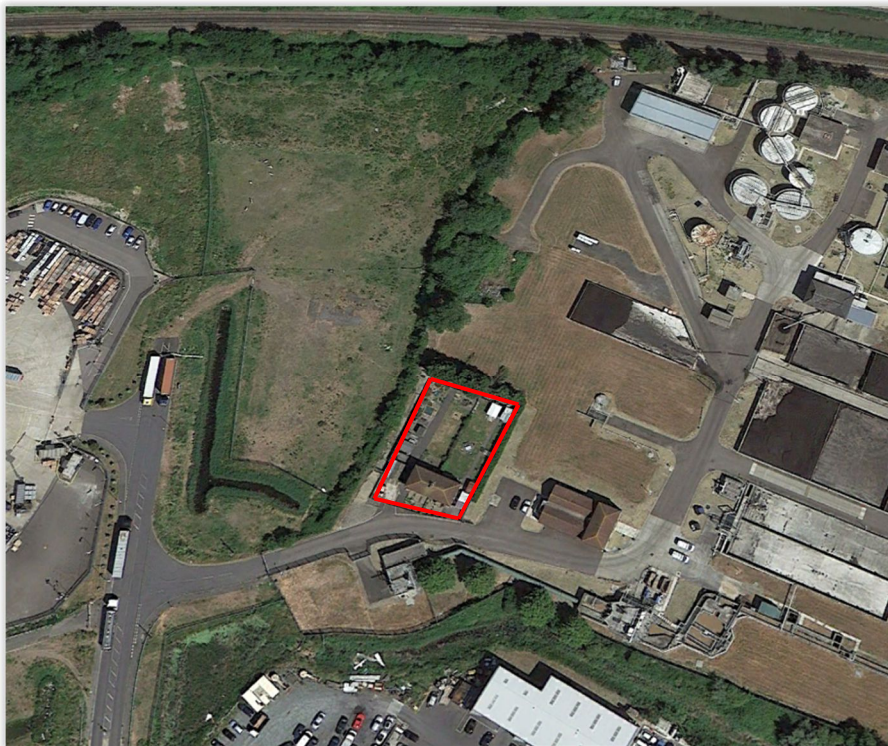
AERIAL PHOTOGRAPH 3 (1990)



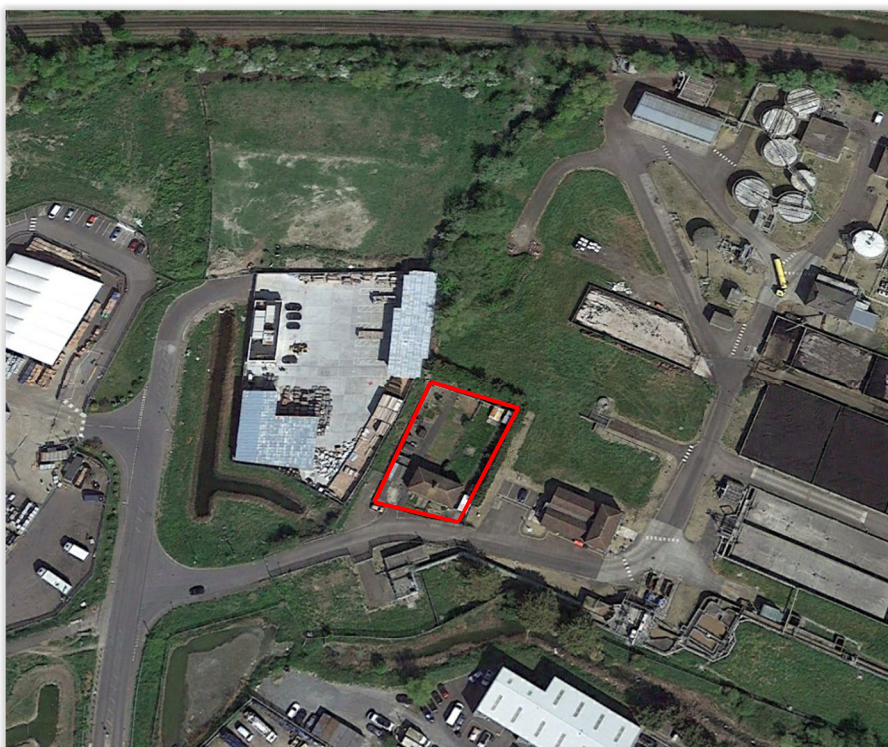
AERIAL PHOTOGRAPH 4 (2003)



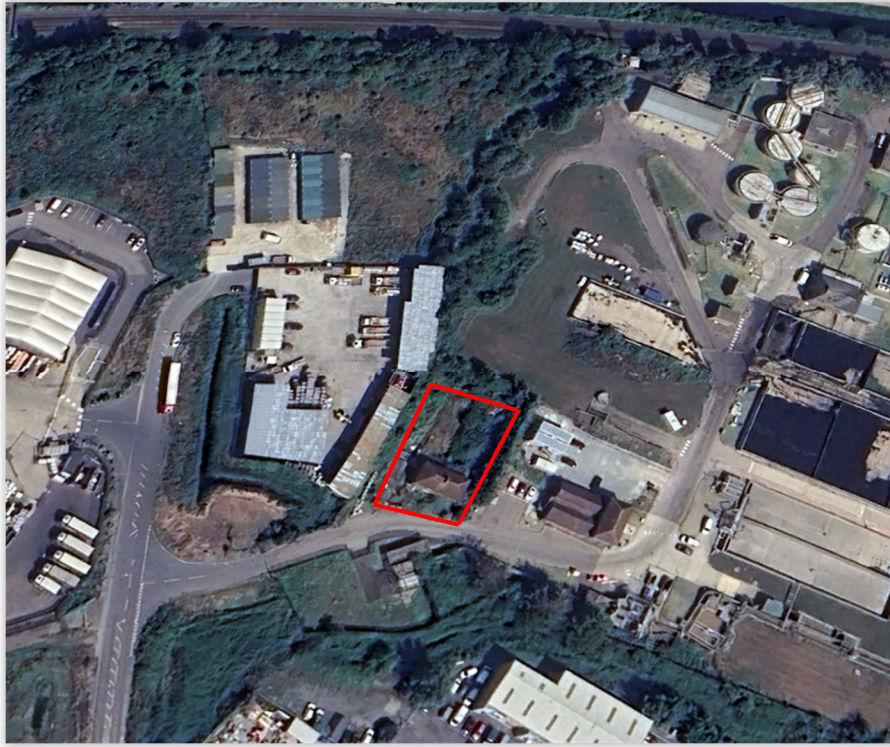
AERIAL PHOTOGRAPH 5 (2013)



AERIAL PHOTOGRAPH 6 (2020)



AERIAL PHOTOGRAPH 7 (2026)



All aerial photographs below courtesy of Google Maps Street View

PHOTOGRAPH 1 (2008)



PHOTOGRAPH 2 (2009)



PHOTOGRAPH 3 (2012)



PHOTOGRAPH 4 (2017)



PHOTOGRAPH 5 (2018)



PHOTOGRAPH 6 (2022)



PHOTOGRAPH 7 (2024)



APPENDIX 3

CHEMICAL ANALYSIS RESULTS CERTIFICATES

ANALYTICAL TEST REPORT

Report Number 26-02001, issue number 1

Contract name: Not Supplied

Client reference: Outfall Cottages During Way Gravesend Kent

Clients name: One Architecture

Clients address: One Architecture
The Old School House
School Road
Near Deal
Kent CT14 0JL

Samples received: 23/02/2026

Analysis started: 23/02/2026

Analysis completed: 04/03/2026

Report issued: 04/03/2026

Key

U UKAS accredited test
M MCERTS & UKAS accredited test
(B) Analysis performed at Southampton Site
I/S Insufficient sample to carry out test
U/S Sample not suitable for testing
NAD No Asbestos Detected
Full key available on Information page



Approved by: Georgia Hunter
Senior Reporting Administrator

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

% Moisture reported as MCERTS drying at 30°C

Lab ref	Sample ID	Depth (m)	Sample description	Material removed	% Removed	% Moisture
90742	PIT-1	500m	Brown Sandy Clay with Gravel.	-	-	13.3
90743	PIT-2	350m	Brown Sandy Clay with Gravel and Vegetation.	-	-	17.8
90744	PIT-3	430m	-	-	-	-
90745	PIT-4	420m	White Sandy Clay with Gravel.	-	-	20.1
90746	PIT-5	320m	Brown Clay with Gravel and Vegetation.	-	-	22.3
90747	PIT-6	365m	Brown Sandy Clay with Gravel.	-	-	15.5

SOILS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
Asbestos									
Asbestos Identification	SUBCO N	SU	0	-	NAD	NAD	NAD	NAD	NAD
Metals									
Water Soluble Boron	CE063	N	0.5	mg/kg	0.98	2.36	< 0.50	1.41	0.83
Arsenic	CE264	U	1.8	mg/kg	16.7	20.8	7.0	17.0	13.3
Cadmium	CE264	M	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Chromium	CE264	U	2	mg/kg	21.9	41.2	7.6	48.0	29.2
Copper	CE264	U	1.6	mg/kg	83.3	167	16.5	16.8	50.6
Lead	CE264	U	2.3	mg/kg	410	648	45.1	37.8	209
Mercury	CE264	U	0.7	mg/kg	< 0.7	1.6	0.7	< 0.7	< 0.7
Nickel	CE264	M	2.1	mg/kg	24.0	36.4	9.4	28.6	24.3
Selenium	CE264	U	3	mg/kg	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Zinc	CE264	M	4	mg/kg	251	471	48.3	92.3	78.7
Colourimetric									
Water Soluble Chromium VI	CE263	N	0.04	mg/kg	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Total Monohydric Phenols	CE078	N	0.5	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Cyanide	CE077	N	1	mg/kg	< 1.0	1.5	< 1.0	< 1.0	< 1.0
Free Cyanide	CE077	N	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Combustion									
Moisture Content	CE001	N	0.1	%	13.3	17.8	20.1	22.3	15.5
Soil Organic Matter	CE192	N	0.1	%	11.0	10.8	2.09	2.55	2.74
Polyaromatic hydrocarbons									
Naphthalene	CE087	M	0.016	mg/kg	5.14	2.52	0.072	< 0.016	0.794
Acenaphthylene	CE087	M	0.015	mg/kg	4.23	3.25	0.098	< 0.015	0.732
Acenaphthene	CE087	M	0.013	mg/kg	9.56	1.73	0.181	< 0.013	0.897
Fluorene	CE087	U	0.013	mg/kg	7.38	2.27	0.153	< 0.013	0.955
Phenanthrene	CE087	M	0.014	mg/kg	119	54.7	2.94	0.054	15.7
Anthracene	CE087	U	0.017	mg/kg	20.5	13.0	0.499	0.027	3.99
Fluoranthene	CE087	M	0.017	mg/kg	284	171	6.12	0.204	36.3
Pyrene	CE087	M	0.016	mg/kg	228	135	5.05	0.178	29.4
Benzo(a)anthracene	CE087	U	0.012	mg/kg	117	70.8	2.70	< 0.012	16.2

SOILS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
Chrysene	CE087	M	0.028	mg/kg	103	60.8	2.30	0.116	13.4
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	140	87.8	3.19	0.170	19.8
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	59.0	34.6	1.24	0.074	7.29
Benzo(a)pyrene	CE087	U	0.019	mg/kg	106	56.5	2.82	0.150	17.6
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	107	56.8	2.68	0.154	16.7
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	13.5	6.88	0.397	0.022	2.25
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	72.3	35.4	1.84	0.109	11.2
Total PAH(16)	CE087	N	0.28	mg/kg	1400	792	32.3	1.26	193
BTEX									
Benzene	CE267	U	0.001	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	CE267	U	0.001	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	CE267	U	0.001	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes	CE267	N	0.004	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
MTBE	CE267	N	0.002	mg/kg	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Total BTEX	CE267	N	0.007	mg/kg	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
m,p-Xylene	CE267	U	0.002	mg/kg	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
oXylenes	CE267	U	0.002	mg/kg	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Total Petroleum Hydrocarbons									
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	3.7	3.6	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	11.1	8.3	< 0.5	< 0.5	1.1
>C16-C21 Aliphatic (EH_2D_AL)	CE250	N	0.7	mg/kg	32.8	19.3	< 0.7	< 0.7	2.2
>C21-C35 Aliphatic (EH_2D_AL)	CE250	N	4	mg/kg	126	96.6	< 4.0	< 4.0	4.3
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	53.3	32.5	< 0.5	< 0.5	2.5
>C5-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	46.3	35.7	1.8	0.7	3.7
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	186	128	6.3	2.1	17.9

SOILS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	1420	618	20.9	< 2.0	149
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	5190	2640	67.8	5.4	459
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	1240	690	11.9	< 2.0	86.1
Wet Chem									
pH	CE004	M	0.1	pH units	8.5	8.2	8.4	8.4	8.4

SOIL VOCS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
VOC									
Benzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Toluene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Ethylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
m,p-Xylene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
o-xylene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chloroform	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tetrachloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1,1-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Trichloroethylene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tetrachloroethylene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Bromobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Bromodichloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1-Dichloro-1-propene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Trans - 1-2 -dichloroethylene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
2,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Bromochloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibromomethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1,2-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dibromochloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,3-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2-dibromoethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Styrene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Propylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
2-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2,4-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
4-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

SOIL VOCS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
t-butylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,3,5-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,3-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Butylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Hexachlorobutadiene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1-2-3 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Naphthalene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1-2-4 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,4-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Bromoform	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2-Dibromo-3-Chloropropane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
4-Isopropyltoluene_(p-Cymene)	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1,1,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Bromomethane	CE174	N	0.03	mg/kg	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Chloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cis-1,2-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
cis-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1,2,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dichlorodifluoromethane_(CFC-12)	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Dichloromethane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Isopropylbenzene_(Cumene)	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
MTBE	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
sec-Butylbenzene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
trans-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Trichlorofluoromethane_(CFC-11)	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Vinyl chloride	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,1-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
1,2,3-Trichloropropane	CE174	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

SOIL SVOCS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
SVOC									
Phenol	CE189	N	0.1	mg/kg	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Bis(2-chloroethyl)ether	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Chlorophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1-3-Dichlorobenzene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1-4-Dichlorobenzene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1-2-Dichlorobenzene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Methylphenol	CE189	N	0.1	mg/kg	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Bis(2-chloroisopropyl)ether	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
3 and 4-methylphenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
N-Nitrosodi-n-propylamine	CE189	N	0.1	mg/kg	< 0.10	< 0.10	0.43	< 0.10	< 0.10
Hexachloroethane	CE189	N	0.1	mg/kg	0.26	< 0.10	3.76	< 0.10	< 0.10
Nitrobenzene	CE189	N	0.1	mg/kg	0.24	0.33	6.38	< 0.10	6.42
Isophorone	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2- Nitrophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-4-Dimethylphenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Bis(2-chloroethoxy)methane	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-4-Dichlorophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Chloroaniline	CE189	N	0.1	mg/kg	2.48	1.15	< 0.10	< 0.10	0.32
Hexachloro- 1-3-butadiene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Chloro-3-methylphenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Methylnaphthalene	CE189	N	0.1	mg/kg	2.82	1.08	< 0.10	< 0.10	0.28
1-Methylnaphthalene	CE189	N	0.1	mg/kg	2.23	0.67	< 0.10	< 0.10	< 0.10
Hexachlorocyclopentadiene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	0.40	< 0.10	< 0.10
2,4,6-Trichlorophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4,5-Trichlorophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Nitroaniline	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dimethyl phthalate	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-6-dinitrotoluene	CE189	N	0.1	mg/kg	24.1	< 0.10	< 0.10	< 0.10	< 0.10
3-Nitroaniline	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-nitrophenol	CE189	N	0.1	mg/kg	5.26	1.23	< 0.10	< 0.10	0.57

SOIL SVOCS

Lab Number					90742	90743	90745	90746	90747
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PIT-1	PIT-2	PIT-4	PIT-5	PIT-6
Depth (m)					500m	350m	420m	320m	365m
Sampling Date					23/02/2026	23/02/2026	23/02/2026	23/02/2026	23/02/2026
Test	Method	Accred	LoD	Units					
Dibenzofuran	CE189	N	0.1	mg/kg	5.25	1.22	< 0.10	< 0.10	0.49
Diethyl phthalate	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Nitroaniline	CE189	N	0.1	mg/kg	4.25	1.10	0.40	0.84	0.54
2-Methyl-4,6-dinitrophenol	CE189	N	0.1	mg/kg	< 0.10	0.31	< 0.10	< 0.10	< 0.10
Azobenzene	CE189	N	0.1	mg/kg	0.38	< 0.10	< 0.10	< 0.10	< 0.10
Hexachlorobenzene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pentachlorophenol	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Carbazole	CE189	N	0.1	mg/kg	6.53	2.15	< 0.10	< 0.10	0.74
Di-n-butyl phthalate	CE189	N	0.1	mg/kg	< 0.10	0.34	< 0.10	< 0.10	< 0.10
Butyl benzyl phthalate	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Di-n-octyl phthalate	CE189	N	0.1	mg/kg	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Bis(2-ethylhexyl)phthalate	CE189	N	0.1	mg/kg	8.41	4.71	< 0.10	< 0.10	1.12
4-Bromophenylphenylether	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Chlorophenylphenylether	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
1,2,4-Trichlorobenzene	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene, 2-chloro-	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
N-Nitrosodimethylamine	CE189	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrophenol	CE189	N	0.1	mg/kg	65.9	44.2	6.63	< 0.10	18.2
2,4-Dinitrotoluene	CE189	N	0.1	mg/kg	1.07	1.61	10.5	10.6	10.7

LEACHATE

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
Metals					
Arsenic Leachate	CE265	U	0.1	µg/l	6.93
Boron Leachate	CE265	N	4	µg/l	90.5
Cadmium Leachate	CE265	U	0.1	µg/l	< 0.10
Chromium Leachate	CE265	U	0.5	µg/l	3.68
Copper Leachate	CE265	U	0.5	µg/l	10.4
Lead Leachate	CE265	U	0.6	µg/l	13.6
Mercury Leachate	CE265	N	0.05	µg/l	< 0.050
Nickel Leachate	CE265	U	0.4	µg/l	3.59
Selenium Leachate	CE265	U	1.1	µg/l	< 1.1
Zinc Leachate	CE265	U	3.5	µg/l	9.5
Colourimetric					
Chromium VI	CE259	U	1.5	µg/l	< 1.50
Total Monohydric Phenols	CE148	N	10	µg/l	< 10
Total Cyanide	CE147	N	5	µg/l	10.9
Free Cyanide	CE147	N	5	µg/l	< 5.0
Polyaromatic hydrocarbons					
Naphthalene	CE051	N	0.1	µg/l	2.34
Acenaphthylene	CE051	N	0.1	µg/l	0.24
Acenaphthene	CE051	N	0.1	µg/l	0.11
Fluorene	CE051	N	0.1	µg/l	0.21
Phenanthrene	CE051	N	0.1	µg/l	0.47
Anthracene	CE051	N	0.1	µg/l	< 0.10
Fluoranthene	CE051	N	0.1	µg/l	< 0.10
Pyrene	CE051	N	0.1	µg/l	< 0.10
Benzo(a)anthracene	CE051	N	0.1	µg/l	< 0.10
Chrysene	CE051	N	0.1	µg/l	< 0.10
Benzo(b)fluoranthene	CE051	N	0.1	µg/l	< 0.10
Benzo(k)fluoranthene	CE051	N	0.1	µg/l	< 0.10
Benzo(a)pyrene	CE051	N	0.1	µg/l	< 0.10
Indeno(1,2,3-cd)pyrene	CE051	N	0.1	µg/l	< 0.10

LEACHATE

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
Dibenzo(a,h)anthracene	CE051	N	0.1	µg/l	< 0.10
Benzo(g,h,i)perylene	CE051	N	0.1	µg/l	< 0.10
Total PAH(16)	CE051	N	1.6	µg/l	3.35
BTEX					
Benzene	CE266	U	1	µg/l	< 1.00
Toluene	CE266	U	1	µg/l	< 1.00
Ethylbenzene	CE266	U	1	µg/l	< 1.00
Xylenes	CE266	U	1	µg/l	< 1.00
MTBE	CE266	U	1	µg/l	< 1.00
m,p-Xylene	CE266	U	1	µg/l	< 1.00
oXylenes	CE266	U	1	µg/l	< 1.00
Total Petroleum Hydrocarbons					
>C5-C6 Aliphatic (HS_1D_AL)	CE266	N	1	µg/l	< 1.00
>C6-C8 Aliphatic (HS_1D_AL)	CE266	N	1	µg/l	< 1.00
>C8-C10 Aliphatic (HS_1D_AL)	CE266	N	1	µg/l	< 1.00
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	µg/l	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	1	µg/l	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	CE250	N	1	µg/l	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	CE250	N	1	µg/l	< 1.0
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	1	µg/l	< 1.0
>C5-C7 Aromatic (HS_1D_AR)	CE266	N	1	µg/l	< 1.00
>C7-C8 Aromatic (HS_1D_AR)	CE266	N	1	µg/l	< 1.00
>C8-C10 Aromatic (HS_1D_AR)	CE266	N	1	µg/l	< 1.00
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	1	µg/l	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	µg/l	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	1	µg/l	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	1	µg/l	< 1.0
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	1	µg/l	< 1.0
Wet Chem					
pH (10:1 extract)	CE213	U	0.1	pH units	8.0

LEACHATE VOCS

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
VOC					
Benzene	CE066	N	1	µg/l	< 1.00
Toluene	CE066	N	1	µg/l	< 1.00
Ethylbenzene	CE066	N	1	µg/l	< 1.00
m,p-Xylene	CE066	N	1	µg/l	< 1.00
o-xylene	CE066	N	1	µg/l	< 1.00
1,1-Dichloroethane	CE066	N	1	µg/l	< 1.00
Chloroform	CE066	N	1	µg/l	< 1.00
Tetrachloromethane	CE066	N	1	µg/l	< 1.00
1,1,1-Trichloroethane	CE066	N	1	µg/l	< 1.00
Trichloroethylene	CE066	N	1	µg/l	< 1.00
Tetrachloroethylene	CE066	N	1	µg/l	< 1.00
Chlorobenzene	CE066	N	1	µg/l	< 1.00
Bromobenzene	CE066	N	1	µg/l	< 1.00
Bromodichloromethane	CE066	N	1	µg/l	< 1.00
1,1-Dichloro-1-propene	CE066	N	1	µg/l	< 1.00
Trans - 1-2 -dichloroethylene	CE066	N	1	µg/l	< 1.00
2,2-Dichloropropane	CE066	N	1	µg/l	< 1.00
Bromochloromethane	CE066	N	1	µg/l	< 1.00
1,2-Dichloroethane	CE066	N	1	µg/l	< 1.00
Dibromomethane	CE066	N	1	µg/l	< 1.00
1,2-Dichloropropane	CE066	N	1	µg/l	< 1.00
1,1,2-Trichloroethane	CE066	N	1	µg/l	< 1.00
Dibromochloromethane	CE066	N	1	µg/l	< 1.00
1,3-Dichloropropane	CE066	N	1	µg/l	< 1.00
1,2-dibromoethane	CE066	N	1	µg/l	< 1.00
Styrene	CE066	N	1	µg/l	< 1.00
Propylbenzene	CE066	N	1	µg/l	< 1.00
2-Chlorotoluene	CE066	N	1	µg/l	< 1.00
1,2,4-Trimethylbenzene	CE066	N	1	µg/l	< 1.00
4-Chlorotoluene	CE066	N	1	µg/l	< 1.00

LEACHATE VOCS

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
t-butylbenzene	CE066	N	1	µg/l	< 1.00
1,3,5-Trimethylbenzene	CE066	N	1	µg/l	< 1.00
1,3-Dichlorobenzene	CE066	N	1	µg/l	< 1.00
Butylbenzene	CE066	N	1	µg/l	< 1.00
Hexachlorobutadiene	CE066	N	1	µg/l	< 1.00
1-2-3 - Trichlorobenzene	CE066	N	1	µg/l	< 1.00
Naphthalene	CE066	N	1	µg/l	< 1.00
1-2-4 - Trichlorobenzene	CE066	N	1	µg/l	< 1.00
1,4-Dichlorobenzene	CE066	N	1	µg/l	< 1.00
1,2-Dichlorobenzene	CE066	N	1	µg/l	< 1.00
Bromoform	CE066	N	1	µg/l	< 1.00
1,1,1,2-Tetrachloroethane	CE066	N	1	µg/l	< 1.00
1,1,2,2-Tetrachloroethane	CE066	N	1	µg/l	< 1.00
1,1-Dichloroethene	CE066	N	1	µg/l	< 1.00
1,2,3-Trichloropropane	CE066	N	1	µg/l	< 1.00
1,2-Dibromo-3-Chloropropane	CE066	N	1	µg/l	< 1.00
4-Isopropyltoluene_(p-Cymene)	CE066	N	1	µg/l	< 1.00
Bromomethane	CE066	N	3	µg/l	< 3.00
Chloroethane	CE066	N	1	µg/l	< 1.00
Chloromethane	CE066	N	1	µg/l	< 1.00
Cis-1,2-Dichloroethene	CE066	N	1	µg/l	< 1.00
cis-1,3-Dichloro-1-Propene	CE066	N	1	µg/l	< 1.00
Dichlorodifluoromethane_(CFC-12)	CE066	N	1	µg/l	< 1.00
Dichloromethane	CE066	N	1	µg/l	< 1.00
Isopropylbenzene_(Cumene)	CE066	N	1	µg/l	< 1.00
MTBE	CE066	N	1	µg/l	< 1.00
sec-Butylbenzene	CE066	N	1	µg/l	< 1.00
trans-1,3-Dichloro-1-Propene	CE066	N	1	µg/l	< 1.00
Trichlorofluoromethane_(CFC-11)	CE066	N	1	µg/l	< 1.00
Vinyl chloride	CE066	N	1	µg/l	< 1.00

LEACHATE SVOCS

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
SVOC					
Phenol	CE065	N	0.1	µg/l	< 0.10
Bis(2-chloroethyl)ether	CE065	N	0.1	µg/l	< 0.10
2-Chlorophenol	CE065	N	0.1	µg/l	< 0.10
1-3-Dichlorobenzene	CE065	N	0.1	µg/l	< 0.10
1-4-Dichlorobenzene	CE065	N	0.1	µg/l	< 0.10
1-2-Dichlorobenzene	CE065	N	0.1	µg/l	< 0.10
2-Methylphenol	CE065	N	0.1	µg/l	< 0.10
Bis(2-chloroisopropyl)ether	CE065	N	0.1	µg/l	< 0.10
3 and 4-methylphenol	CE065	N	0.1	µg/l	< 0.10
N-Nitrosodi-n-propylamine	CE065	N	0.1	µg/l	< 0.10
Hexachloroethane	CE065	N	0.1	µg/l	< 0.10
Nitrobenzene	CE065	N	0.1	µg/l	< 0.10
Isophorone	CE065	N	0.1	µg/l	< 0.10
2- Nitrophenol	CE065	N	0.1	µg/l	< 0.10
2-4-Dimethylphenol	CE065	N	0.1	µg/l	< 0.10
Bis(2-chloroethoxy)methane	CE065	N	0.1	µg/l	< 0.10
2-4-Dichlorophenol	CE065	N	0.1	µg/l	< 0.10
4-Chloroaniline	CE065	N	0.1	µg/l	< 0.10
Hexachloro- 1-3-butadiene	CE065	N	0.1	µg/l	< 0.10
4-Chloro-3-methylphenol	CE065	N	0.1	µg/l	< 0.10
2-Methylnaphthalene	CE065	N	0.1	µg/l	< 0.10
1-Methylnaphthalene	CE065	N	0.1	µg/l	< 0.10
Hexachlorocyclopentadiene	CE065	N	0.1	µg/l	< 0.10
2.4.6-Trichlorophenol	CE065	N	0.1	µg/l	< 0.10
2.4.5-Trichlorophenol	CE065	N	0.1	µg/l	< 0.10
2-Nitroaniline	CE065	N	0.1	µg/l	< 0.10
Dimethyl phthalate	CE065	N	0.1	µg/l	< 0.10
2-6-dinitrotoluene	CE065	N	0.1	µg/l	< 0.10
3-Nitroaniline	CE065	N	0.1	µg/l	< 0.10
4-nitrophenol	CE065	N	0.1	µg/l	< 0.10

LEACHATE SVOCS

Lab Number					90744
Client Reference					SOIL
Sample ID					PIT-3
Depth (m)					430m
Sampling Date					23/02/2026
Test	Method	Accred	LoD	Units	
Dibenzofuran	CE065	N	0.1	µg/l	< 0.10
Diethyl phthalate	CE065	N	0.1	µg/l	< 0.10
4-Nitroaniline	CE065	N	0.1	µg/l	< 0.10
2-Methyl-4,6-dinitrophenol	CE065	N	0.1	µg/l	< 0.10
Azobenzene	CE065	N	0.1	µg/l	< 0.10
Hexachlorobenzene	CE065	N	0.1	µg/l	< 0.10
Pentachlorophenol	CE065	N	0.1	µg/l	< 0.10
Carbazole	CE065	N	0.1	µg/l	< 0.10
Di-n-butyl phthalate	CE065	N	0.1	µg/l	< 0.10
Butyl benzyl phthalate	CE065	N	0.1	µg/l	< 0.10
4-Bromophenylphenylether	CE065	N	0.1	µg/l	< 0.10
4-Chlorophenylphenylether	CE065	N	0.1	µg/l	< 0.10
Di-n-octyl phthalate	CE065	N	0.1	µg/l	< 0.10
1,2,4-Trichlorobenzene	CE065	N	0.1	µg/l	< 0.10
Bis(2-ethylhexyl)phthalate	CE065	N	0.1	µg/l	< 0.10
Naphthalene, 2-chloro-	CE065	N	0.1	µg/l	< 0.10
N-Nitrosodimethylamine	CE065	N	0.1	µg/l	< 0.10
2,4-Dinitrophenol	CE065	N	0.1	µg/l	< 0.10
2,4-Dinitrotoluene	CE065	N	0.1	µg/l	< 0.10

METHOD DETAILS

METHOD	TESTNAME	METHOD SUMMARY	ANALYSIS BASIS
CE266	VPH in Leachate	HS-GCFID	As submitted sample
CE267	VPH in Soil	HS-GCFID	As submitted sample
CE250	GCXGC in Leachate	DCM Extraction and GCxGC-FID	As submitted sample
CE250	GCXGC in Soil	DCM Extraction and GCxGC-FID	As submitted sample
SUBCON	Asbestos Soil	HSG248	Air Dried Sample
CE066	VOC in Leachate	HS-GCMS	As submitted sample
CE174	VOC in Soil	HS-GCMS	As submitted sample
CE063	Water soluble boron	ICPOES	Air dried sample
CE065	SVOC in Leachate	DCM Extraction and GCMS	As submitted sample
CE189	SVOC in solids	DCM Extraction and GCMS	As submitted sample
CE265	Dissolved metals by ICP in Leachate	ICPMS	As submitted sample
CE264	Metals by ICP in Soil	ICPOES	Air dried sample
CE266	BTEX in Leachate	Analysis by HSGCFID	As submitted sample
CE267	BTEX in Soils	Analysis by HSGCFID	As submitted sample
CE263	ChromiumVI by Discrete Analyser in Soil	Gallery	Air dried sample
CE259	ChromiumVI by Discrete Analyser in Leach	Gallery	As submitted sample
CE051	PAH in Leachate	DCM Extraction and GCMS	As submitted sample
CE087	PAH in Soil	DCM Extraction and GCMS	As submitted sample
CE148	Phenols in Leachate	Continuous Flow Analyser	As submitted sample
CE078	Phenols in Soil	Continuous Flow Analyser	As submitted sample
CE147	Cyanides in Leachate	Continuous Flow Analyser	As submitted sample
CE077	Cyanides in Soils	Continuous Flow Analyser	As submitted sample

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

- a Sampling date not provided
- b Sampling time not provided (waters only)
- c Sample not received in appropriate containers
- d Storage Temperature
- e Headspace present in sample container
- f Sample exceeded sampling to receipt
- g Sample exceeded holding time(s)

Lab ref	Sample ID	Depth (m)	Deviating	Tests (Reason for deviation)
90742	PIT-1	500m	N	
90743	PIT-2	350m	N	
90744	PIT-3	430m	N	
90745	PIT-4	420m	N	
90746	PIT-5	320m	N	
90747	PIT-6	365m	N	

REPORT INFORMATION

Report No.:26-02001, issue number 1

Key	
U	ISO17025 Accredited Result
M	ISO17025 and MCERTS Accredited Result
N	Do not currently hold accreditation
^	MCERTS accreditation not applicable for sample matrix
*	ISO17025 accreditation not applicable for sample matrix
S	Subcontracted
I/S	Insufficient Sample
U/S	Unsuitable sample
N/T	Not tested
<	Means "less than"
>	Means "greater than"

LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

This report shall not be reproduced except in full, without prior written approval.

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

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

The results relate only to the sample received.

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Moisture Content Calculated on a Wet Weight basis (at 30°C)

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

Where sampling was undertaken by Chemtech Environmental Limited it is outside the UKAS accreditation scope.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

For soils and solids, all results are reported on a dry basis (30°C). Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones and 'inert' material, where applicable.

'Client Reference', 'Sample ID', 'Sample Location', 'Sample Type', 'Depth', 'Sample Date' and 'Sample Time' information is provided by the customer

Sample Retention and Disposal

All soil samples will be retained for a period of 4 weeks from the point of receipt

All water samples will be retained for a period of 2 weeks from the point of Reporting

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Unless specifically identified (noted as "(B)" in analyte name) all internal analysis performed at Durham site

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