

GLEN DIMPLEX HOMES APPLIANCES LTD

Stoney Lane
Rainhill
Prescot
L35 2XW

7th October 2024

SUPPLEMENTRY GROUND INVESTIGATION – STAGE 1 GLEN DIMPLEX, PRESCOT

1. INTRODUCTION

1.1. BACKGROUND

Glen Dimplex Homes Appliances Ltd (the client) has commissioned E3P to undertake a phase of supplementary ground investigation at the Glen Dimplex Factory, Stoney Lane, Rainhill, Prescot, L35 2XW, hereafter referred to as the site.

E3P understands that Glen Dimplex is considering the proposed sale of the former Glen Dimplex factory in Prescot for future redevelopment into low-rise residential housing with associated private gardens, roadways and associated infrastructure. At present, a proposed development plan has not been confirmed for the site.

1.2. PRELIMINARY GROUND INVESTIGATION SUMMARY

E3P completed a preliminary ground investigation in March 2024 which comprised 10 shallow window sample probeholes advanced to depths of between 1.74–5.45 m bgl with environmental monitoring wells installed to obtain initial ground gas monitoring data and collect groundwater samples. A further two deep cable percussive boreholes were advanced to depths between 9.09–9.37 m bgl towards the south of the main factory structure with two deeper environmental monitoring wells installed to investigate deeper groundwater and ground gas risks.

Chemical soil samples submitted for analysis identified extensive exceedances of heavy metals within the Made Ground deposits across the site, as well as further exceedances of Volatile Organic Compounds (VOCs) within both Made Ground and natural superficial deposits in southern window sample probeholes (WS101–WS103).

Widespread Trichloroethene (TCE), Dichloroethene (cis 1,2-Dichloroethene, and Trans 1,2-Dichloroethene), and Vinyl Chloride contamination and localised heavy metal exceedances were identified in the groundwater analysis at the site. It was noted that where there were exceedances of VOCs in soils, exceedances in groundwater were often recorded. Therefore, it was considered that there is likely an on-site source of contamination which may be leaching across the site and into the underlying groundwater, and subsequently, the principal bedrock aquifer.



2. E3P SUPPLEMENTARY GROUND INVESTIGATION – STAGE 1

2.1. RATIONALE

Following the receipt of soil and groundwater chemical analysis from the preliminary ground investigation, extensive instances of VOC impact was determined to be extending along the southern face of the main factory structure.

To further determine the extent of the identified VOC impact within the soils and groundwater identified in the preliminary ground investigation, the following phases of supplementary ground investigation were proposed:

Stage 1:

- ✦ Drilling of 6 window sample probeholes in the southeast corner of the site (in the vicinity of WS104) and 6 window sample probeholes in the southwest corner of the site (in the vicinity of CP101);
- ✦ Collection of soil samples and scheduled chemical analysis for Volatile Organic Compounds (VOCs) and Semi-volatile Organic Compounds (SVOCs) to determine if the soils are impacted; and
- ✦ Summary letter report.

Stage 2:

- ✦ Drilling of 2 deep rotary boreholes into the underlying bedrock (~30.00 m bgl) and installation of groundwater monitoring wells, which would be sealed off to prevent any potential cross-contamination from overlying strata;
- ✦ Undertake 3 rounds of groundwater monitoring and sampling, with scheduled chemical analysis for heavy metals, Polycyclic Aromatic Hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPHs), VOCs and SVOCs; and
- ✦ Controlled Waters Risk Assessment of the Principal Aquifer.

This letter report presents the findings of the Stage 1 supplementary ground investigation, with the findings of the Stage 2 supplementary ground investigation being reported under a separate cover.

2.2. SCOPE OF SUPPLEMENTARY GROUND INVESTIGATION – STAGE 1

Exploratory fieldwork was completed between 19th and 20th August 2024.

A total of 12 window sample boreholes were advanced in the southeastern and southwestern corners of the site in order to undertake in-situ detailed geotechnical testing and obtain environmental samples.

The sampling locations are illustrated on Drawing 17-500-005, and the ground conditions encountered are indicated on the logs, both of which are appended to this letter report.

Soil samples were obtained from the Made Ground and natural superficial deposits from the majority of exploratory holes with the exception of WS209 and WS210, which encountered assumed concrete slab obstructions limiting the advancement of these locations into the underlying natural superficial deposits.



The locations were surveyed by GPS to Ordnance Survey with an accuracy of < 10 mm.

2.3. GROUND CONDITIONS

The Stage 1 supplementary ground investigation generally confirms the findings of the preliminary ground investigation and published geology; the identified strata is set out in Table 1.

Table 1 Summary of Strata

HOLE	DEPTH TO STRATUM (M BGL)					
	MADE GROUND	SANDY CLAY	CLAYEY F-M SAND	CLAY WITH SAND POCKETS	GRAVELLY CLAY	GRAVEL
WS201	0.00–0.80	0.80–3.10	3.10–3.60	3.10–4.44	–	–
WS202	0.00–1.20	1.20–3.30 3.40–3.80	–	–	3.30–3.40	–
WS203	0.00–1.20	1.20–2.20 3.10–3.80	3.80–4.43	–	2.20–3.10	–
WS204	0.00–1.80	2.50–3.00 3.20–4.44	1.80–2.50 3.00–3.20	–	–	–
WS205	0.00–1.10	2.10–2.60	2.60–4.36	–	–	–
WS206	0.00–0.90	–	–	0.90–4.44	–	–
WS207	0.00–1.10	1.30–2.20 2.80–3.10	1.10–1.30 2.20–2.80 3.10–4.60			4.60–5.45
WS208	0.00–1.10	1.10–2.60	2.60–4.45	–	–	–
WS209	0.00–0.65*	–	–	–	–	–
WS210	0.00–0.55*	–	–	–	–	–
WS211	0.00–1.10	1.10–2.50	2.50–5.45	–	–	–
WS212	0.00–1.10	1.10–3.45	–	–	–	–

* Denotes where the full depth of Made Ground could not be proven due to obstructions.

2.3.1. MADE GROUND

During the supplementary intrusive investigation, Made Ground deposits were encountered within all exploratory hole locations to depths of between 0.00 m and in excess of 1.80 m bgl although, in general, Made Ground was encountered to depths of less than 1.20 m bgl.

The full depth of Made Ground could not be proven within WS209 and WS210 towards the southwestern corner of the site, due to unknown concrete obstructions preventing advancement of the window sample probeholes. Due to the surrounding area containing high risk services, secondary locations could not be undertaken for either WS209 or WS210, and therefore, the full depth of Made Ground in this area is presently unknown.

Towards the southeast of the site, the upper 0.20 m comprised a reworked topsoil consisting of a dark brown sandy clay with frequent rootlets.



Beneath the reworked topsoil, varying Made Ground deposits were recorded, more typically comprising dark brown gravelly clay with occasional cobbles and gravel of brick, concrete, mudstone, ash and rare slag.

An assumed colliery spoil was recorded within 3 exploratory locations (WS201, WS205, and WS206) towards the southeast of the site encountered at depths between 0.30–0.80 m bgl. The colliery spoil consisted of a black silty ashy gravel with gravel of concrete, slag, ash, coal, and brick.

Towards the southwest of the site, the upper 0.30 m bgl comprised concrete towards the north, and 0.10 m bgl of asphalt towards the southern boundary in the vicinity of historical car parking.

Made Ground deposits underlying the asphalt and concrete were generally uniform, comprising black and red clayey sandy gravel with frequent cobbles and gravel of brick, concrete, ash, metal, and mudstone with brick and concrete cobbles. Within WS207, WS208, WS209, WS211 and WS212, strong hydrocarbon odours were encountered within these deposits.

A Depth of Made Ground Plan is presented as Drawing 17-500-006 in **Error! Reference source not found..**

2.3.2. SUPERFICIAL DEPOSITS

Superficial deposits were encountered within all exploratory locations except for WS209 and WS210 (due to unknown concrete obstructions), with the superficial deposits varying across the site.

The most common stratum recorded was a brown mottled grey slightly gravelly sandy gravelly CLAY with gravel of sandstone and mudstone. Typically, the CLAY was locally interbedded with a brown very clayey fine to medium SAND between depths of 0.70–4.44 m bgl.

In two locations, a very sandy CLAY with pockets of brown fine to medium SAND was noted towards the southeast, in WS201 and WS206 between depths of 0.90–4.44 m bgl.

In WS207, a band of GRAVEL approximately 0.85 m thick was recorded from 4.60–5.45 m bgl, with gravel of mudstone and sandstone.

2.3.3. BEDROCK GEOLOGY

Bedrock geology was not encountered during the Stage 1 supplementary ground investigation.

2.3.4. GROUNDWATER

Groundwater strikes were encountered as seepages. The depth of the seepages are shown on the exploratory hole records (appended to this letter report) and are summarised in Table 2.

Table 2 Summary of Groundwater Strikes

LOCATION	DEPTH TO STRIKE (M)	NOTES
WS201	3.30	Seepage
WS204	3.30	Seepage
WS205	3.10	Seepage
WS206	3.10	Seepage
WS207	0.90	Seepage



LOCATION	DEPTH TO STRIKE (M)	NOTES
WS207	4.00	Seepage
WS208	0.80	Seepage

2.3.5. VISUAL AND OLFACTORY EVIDENCE OF CONTAMINATION

Visual and olfactory evidence of potential contamination has been identified during the Stage 1 supplementary ground investigation and these are summarised in Table 3.

Table 3 Summary of Visual and Olfactory Evidence of Contamination

LOCATION	DEPTH (M)	STRATUM	NOTES
WS201	0.40–0.80	Made Ground	Slag and ash inclusions
WS202	0.25–0.30	Made Ground	Ash inclusions
WS203	0.35–1.20	Made Ground	Ash inclusions
WS204	0.20–0.30	Made Ground	Ash inclusions
WS205	0.20–0.80	Made Ground	Slag and ash inclusions
WS206	0.20–0.50	Made Ground	Ash inclusions
	0.50–0.70	Made Ground	Slag, ash, sulphates and spent oxide inclusions
WS207	0.30–0.60	Made Ground	Ash inclusions
	0.60–1.10	Made Ground	Very strong hydrocarbon and chemical odour
WS208	0.60–1.10	Made Ground	Strong hydrocarbon odour
	1.10–2.60	Natural CLAY	Slight hydrocarbon odour
	2.60–4.45	Natural SAND	Very slight hydrocarbon odour
WS209	0.05–0.30	Made Ground	Strong hydrocarbon odour Ash inclusions
	0.40–0.65	Made Ground	Strong hydrocarbon odour Slag and ash inclusions
WS210	0.10–0.30	Made Ground	Slag and ash inclusions
	0.40–0.55	Made Ground	Ash inclusions
WS211	0.10–0.40	Made Ground	Ash inclusions
	0.40–1.10	Made Ground	Strong hydrocarbon odour
	2.00–2.50	Natural CLAY	Slight hydrocarbon odour
WS212	0.10–0.80	Made Ground	Slag and ash inclusions
	0.80–1.10	Made Ground	Strong hydrocarbon odour Slag and ash inclusions

PID readings were also taken of Made Ground material or any material with visual/olfactory indicators of contamination to preliminarily determine potential areas of VOC impact.

Elevated readings were observed within WS207 and WS211 within a five minute monitoring period, where readings were noted to become steady.

Readings within the Made Ground deposits of WS207 illustrate readings are above hazardous thresholds of volatile vapours with a peak reading of 273ppm recorded after two minutes.

PID readings are summarised in Table 4.



Table 4 PID Readings

WELL	STRATUM	DEPTH (m)	Time (Minutes)	MAX READINGS (PPM)
WS201-WS206	Made Ground	0.50–1.00	1.00	0.00
WS207	Made Ground	1.00	1.00	119
			2.00	273
			3.00	130
			4.00	74
			5.00	63
WS208	Made Ground	1.00	1.00	0.00
WS209	Made Ground	0.50	1.00	0.00
WS210	Made Ground	0.50	1.00	0.00
WS211	Made Ground	0.80	1.00	5.50
			2.00	6.70
			3.00	7.70
			4.00	6.50
			5.00	6.00
WS212	Made Ground	1.00	1.00	4.00

2.3.6. OBSTRUCTIONS

Obstructions were identified in two locations in the southwest part of the site, with their positions summarised in Table 5.

Table 5 Summary of Obstructions

LOCATION	DEPTH (M)	STRATUM	NOTES
WS209	0.65	Made Ground	Potential Concrete Slab
WS210	0.55	Made Ground	Potential Concrete Slab



3. TIER 2 QUALITATIVE CONTAMINATED LAND RISK ASSESSMENT

E3P has undertaken a Tier 2 qualitative land risk assessment with respect to human health to determine if any potential contaminants within the underlying soils pose an unacceptable level of risk to the identified receptors.

3.1. SAMPLE ANALYSIS POPULATION

Table 6 summarises the chemical analysis testing scheduled.

Table 6 Summary of Testing Schedule

TYPE OF SAMPLE	NO. OF SAMPLES	DETERMINANDS
MADE GROUND	8	pH, Total Sulphate, Water Soluble Sulphate (2:1 extract), Sulphide, Cyanide, Phenols, Asbestos Identification and Quantification, Total Organic Carbon (TOC) and Soil Organic Matter (SOM), Speciated and Total Polycyclic Aromatic Hydrocarbons (PAHs), Total Metals, Speciated Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs).
MADE GROUND: Hydrocarbon Odours	2	
Natural CLAY	7	pH, Total Sulphate, Water Soluble Sulphate (2:1 extract), Sulphide, Cyanide, Phenols, TOC and SOM, Speciated and Total PAHs, Total Metals, Speciated TPH, VOCs, SVOCs.
Natural SAND	3	

3.2. HUMAN HEALTH RISK ASSESSMENT

At Tier 2 stage, the long term (chronic) human health toxicity of the soil has been assessed by comparing the on-site concentrations of organic and inorganic compounds with reference values published in LQM/CIEH S4UL (S4UL3267).

Where Tier 2 screening values are not provided by LQM, other screening values have been used and these are referenced in Table 7.

The Tier 2 screening values for residential with plant uptake have been utilised for this assessment due to the proposed development being a residential end use. To remain conservative at an early stage, the screening values based on a 1% SOM have been utilised for this assessment.

The results of the comparison have been summarised in Table 7.

Table 7 Summary of Inorganic And Hydrocarbon Toxicity Assessment for a Residential End Use (With Plant Uptake)

DETERMINANT	UNIT	GAC	N	MC	LOC. OF EX	PL	ASSESSMENT
Arsenic	mg/kg	37	22	25	N/A	1	No Further Action
Cadmium	mg/kg	11	22	3.40	N/A	1	No Further Action
Chromium (VI)	mg/kg	6.0	22	0.57	N/A	1	No Further Action
Lead	mg/kg	200**	22	250	WS201 0.30 m	1	Further Action
Mercury	mg/kg	1.2	22	4.10	WS211 0.80 m	4	Further Action
Inorganic Mercury	mg/kg	40	1	0.109	N/A	1	No Further Action
Organo-Mercury Species	mg/kg	11	1	0.055	N/A	1	No Further Action
Elemental Mercury	mg/kg	1.2	1	0.071	N/A	4	No Further Action



DETERMINANT	UNIT	GAC	N	MC	LOC. OF EX	PL	ASSESSMENT
Nickel	mg/kg	130	22	25	N/A	1	No Further Action
Selenium	mg/kg	250	22	1.10	N/A	1	No Further Action
Copper	mg/kg	2400	22	280	N/A	1	No Further Action
Zinc	mg/kg	3700	22	680	N/A	1	No Further Action
Cyanide – Total	mg/kg	791	22	0.70	N/A	1	No Further Action
Phenols – Total	mg/kg	120	22	< 0.50	N/A	1	No Further Action
Asbestos	Fibres	NFD	12	NFD	N/A	3	No Further Action
Naphthalene	mg/kg	2.3	22	<0.50	N/A	4	No Further Action
Acenaphthylene	mg/kg	170	22	<0.50	N/A	2	No Further Action
Acenaphthene	mg/kg	210	22	<0.50	N/A	1	No Further Action
Fluorene	mg/kg	170	22	<0.50	N/A	1	No Further Action
Phenanthrene	mg/kg	95	22	<0.50	N/A	2	No Further Action
Anthracene	mg/kg	2400	22	<0.50	N/A	2	No Further Action
Fluoranthene	mg/kg	280	22	0.95	N/A	2	No Further Action
Pyrene	mg/kg	620	22	0.98	N/A	2	No Further Action
Benzo(a)Anthracene	mg/kg	7.2	22	<0.50	N/A	2	No Further Action
Chrysene	mg/kg	15	22	<0.50	N/A	2	No Further Action
Benzo(b)Fluoranthene	mg/kg	2.6	22	0.94	N/A	2	No Further Action
Benzo(k)Fluoranthene	mg/kg	77	22	<0.50	N/A	2	No Further Action
Benzo(a)Pyrene	mg/kg	2.2	22	0.70	N/A	2	No Further Action
Indeno(123-cd)Pyrene	mg/kg	27	22	<0.50	N/A	2	No Further Action
Dibenzo(a,h)Anthracene	mg/kg	0.24	22	<0.50	N/A	2	No Further Action
Benzo(ghi)Perylene	mg/kg	320	22	0.98	N/A	2	No Further Action
TPH C6-C8 (aliphatic)*	mg/kg	100	22	<0.010	N/A	4	No Further Action
TPH C8-C10 (aliphatic)*	mg/kg	27	22	<0.10	N/A	4	No Further Action
TPH C10-C12 (aromatic)*	mg/kg	74	22	24	N/A	4	No Further Action
TPH C12-C16 (aromatic)*	mg/kg	140	22	29	N/A	4	No Further Action
TPH C16-C21 (aromatic)*	mg/kg	260	22	38	N/A	1	No Further Action
TPH C21-C35 (aromatic)*	mg/kg	1100	22	9.40	N/A	1	No Further Action
Trichloroethene (TCE)	mg/kg	0.0016***	22	0.0016	WS208 0.80 m	4	Further Action
cis 1,2-Dichloroethene	mg/kg	0.11***	22	<1.00	N/A	4	No Further Action
Trans 1,2-Dichloroethene	mg/kg	0.19***	22	<1.00	N/A	4	No Further Action
1,1-Dichloroethene	mg/kg	2.4***	22	<1.00	N/A	4	No Further Action
Vinyl Chloride	mg/kg	0.00064	22	<1.00	N/A	4	No Further Action
1,2,4-Trimethylbenzene	mg/kg	0.35***	22	1.10	WS207 1.00 m	4	Further Action
Isopropylbenzene	mg/kg	11***	22	0.058	N/A	4	No Further Action
Ethylbenzene	mg/kg	47	22	<1.00	N/A	4	No Further Action
Toluene	mg/kg	130	22	<1.00	N/A	4	No Further Action
o-Xylene	mg/kg	60	22	<1.00	N/A	4	No Further Action

Notes

PL1 = soil ingestion and consumption of homegrown vegetables, PL2 = dermal contact and ingestion, PL3 = dust inhalation; PL4 = Vapour/Gas Inhalation

Abbreviations: GAC = general assessment criteria, N = number of samples, MC = maximum concentration; Loc of Ex = location of exceedance; PL = Contaminant Pathway; NFD = no fibres detected.

The pathway noted in the table is the primary pathway, however it may not be the only pathway of that contaminant

* The Tier 2 GAC for the hydrocarbon fraction is derived from the ClEH assessment for petroleum hydrocarbons Criteria Working Group (CWG) for both aliphatic and aromatic compounds. E3P has utilised the Tier 2 values for aliphatic compounds for the volatile and semi volatile fractions (C5-C12) and the Tier 2 values for aromatic compound for the non-volatile fractions



DETERMINANT	UNIT	GAC	N	MC	LOC. OF EX	PL	ASSESSMENT
(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. **The Tier 2 GAC for lead has been taken from CL:AIRE C4SL. *** The Tier 2 GAC for Dichloroethene (cis 1,2-Dichloroethene, Trans 1,2-Dichloroethene and 1,1-Dichloroethene), Isopropylbenzene, and 1,2,4-Trimethylbenzene has been taken from CL:AIRE GAC.							

Referring to Table 7, the result of this direct comparison indicates that the data exceeds the screening criteria for a residential end use for the following contaminants:

Inorganics

- ☛ Lead
- ☛ Mercury

Organics

- ☛ Trichloroethene (TCE)
- ☛ 1,2,4-Trimethylbenzene

Marginal detections of VOCs and SVOCs were identified within WS207 at 1.00 m bgl for Isopropylbenzene (0.058 mg/kg), N-Propylbenzene (0.11 mg/kg), 1,3,5-Trimethylbenzene (0.22 mg/kg), sec-butylbenzene (0.11 mg/kg) and 4-Isopropyltoluene (0.15 mg/kg). However, these were either below the GAC threshold or no GAC threshold is currently available for the specific compound. Further discussion of these detections is presented in Section 3.3.2.

3.2.1. EXPOSURE PATHWAYS

The main exposure pathways based on the Tier 2 exceedances are:

- ☛ Soil ingestion and consumption of homegrown vegetables (PL1);
- ☛ Dermal contact and ingestion (PL2); and
- ☛ Vapour inhalation (indoor) (PL4).

3.2.2. HUMAN HEALTH RISK ASSESSMENT AND MITIGATION

Inorganic Heavy Metals

The elevated concentrations of Lead has a primary exposure pathway related to soil ingestion and consumption of homegrown vegetables (PL1), dermal contact and ingestion of soils (PL2). The recorded exceedance of inorganic heavy metals was identified within the Made Ground deposits in the upper 1.00 m of the ground. Further investigation following the demolition of the structures is required to understand the potential extent of exceedances of inorganic heavy metals to infer a suitable mitigation measure.



Based on the present known exceedances of the GACs and risks to chronic human health associated with the elevated concentrations of inorganic heavy metal compounds, these can be mitigated through the installation of a suitable cover system in all proposed private gardens, soft landscaping and public open space to remove any potential for direct exposure to impacted soils.

The specific design and installation process for the appropriate cover systems will be clearly defined within the site remediation and enabling works strategy.

Mercury

An elevated concentration of total Mercury has been identified within shallow Made Ground deposits towards the southwest part of the site (WS211 at 0.80 m bgl).

Mercury occurs in three forms; elemental Mercury, inorganic Mercury, and methyl Mercury; the latter two forms contain an exposure pathway of soil ingestion and consumption of homegrown vegetables (PL1) and dermal contact and ingestion of soils (PL2), whereas the former contains a potential volatilisation and indoor air risk (PL4).

Samples of the underlying superficial deposits within WS211 were tested and confirmed no exceedances of total Mercury above the GAC were present. As such, the elevated concentrations of total Mercury appear to be confined to the Made Ground deposits.

When monitored using a PID, marginally elevated readings of volatile vapours were recorded within the Made Ground deposits in WS111 at 0.80 m bgl. This may suggest elemental Mercury may be present and volatilising as no other sources of volatile compounds exceeding the laboratory limit of detection were identified within the soil samples submitted.

An additional sample of Made Ground was taken from rotary borehole RB102 at 0.80 m bgl (located within the immediate vicinity of WS211) to determine the lateral extent of Mercury impact. The sample was also tested for speciated Mercury to assess whether the Made Ground deposits contained elevated concentrations elemental Mercury, which would present a potential volatilisation and indoor air risk (PL4).

The sample submitted from RB102 at 0.80 m bgl did not identify elevated concentrations of inorganic, methyl, or elemental Mercury. Therefore, it is assumed that the elevated Mercury identified within WS211 at 0.80 m bgl is a localised instance, and it is deemed unlikely to be present in its elemental form.

Volatile Organic Compounds (VOCs)

A singular instance of elevated Trichloroethene (TCE) has been identified within Made Ground deposits in WS208 at 0.80 m bgl situated to the southwest of the main factory structure. It should be noted that the concentrations were at the GAC threshold, however due to known extensive TCE contamination to the east of this location, further assessment is required.

All samples tested recorded no instances of Vinyl Chloride, or Dichloroethene variants (cis 1,2-Dichloroethene and Trans 1,2-Dichloroethene) above the laboratory limit of detection (LOD), which suggests the sources of TCE and subsequent degradation into Vinyl Chloride and Dichloroethene variants does not laterally extend further to the southwest and southeast of the site within Made Ground deposits, with exception of WS208 at 0.80 m bgl.



Furthermore, Isopropylbenzene, N-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, and 4-Isopropyltoluene were identified above the laboratory LOD within Made Ground deposits at 1.00 m bgl in WS207. Only 1,2,4-Trimethylbenzene and Isopropylbenzene have GAC screening criteria to compare results against, with the former noted to exceed the GAC.

These elevated compounds present a primary exposure pathway linked to the potential volatilisation to indoor air risk (PL4), in addition to exposure pathways of dermal contact and ingestion of soils (PL2) and soil ingestion and consumption of homegrown vegetables (PL1) within impacted areas.

Further investigation and subsequent testing will be required in order to determine the spatial extent of the VOC contamination identified within the soils across the southern boundary of the site and to understand whether leaching has occurred into the underlying natural strata, particularly in WS207 and WS208 where exceedances were only recorded in Made Ground deposits.

Asbestos

No asbestos contamination was identified within any samples submitted for laboratory testing; however the fabric of the current main factory structure is known to contain asbestos throughout.

Following demolition of the main factory structure, further investigation and subsequent testing is recommended in order to obtain representative soil samples of the underlying strata and determine whether the underlying soils are impacted with asbestos.

If Asbestos fibres are encountered, a primary exposure pathway of inhalation of fibres (PL3) would be presented to site personnel and end users. Impacted soils should be managed according to the asbestos risk mitigation conceptual site model shown in Figure 1.

Figure 1 Asbestos Risk Mitigation Conceptual Site Model





Notes

ND None Detect

0.001% Soils may contain $\leq 0.001\%$ asbestos using composite testing to ensure there is no potential risk to human health. This value is present within areas where there may be a short-term low-level exposure of soils containing trace asbestos fibres by construction workers where an appropriate level of asbestos management is employed (dust suppression)

0.1% Soils at a depth of >1.00 m bgl may contain $<0.1\%$ asbestos using composite testing where they will not be likely to be disturbed in the future and will therefore be in an area of low sensitivity. Risk assessment completed in accordance with Asbestos JIWG risk assessment tools.

Undefined- this will be dependent upon soils encountered during earthworks, which may be placed at these depths to ensure no potential risk to human health.

3.3. CONTROLLED WATERS RISK ASSESSMENT

The E3P preliminary ground investigation confirmed the presence of widespread Trichloroethene (TCE), Dichloroethene (cis 1,2-Dichloroethene, and Trans 1,2-Dichloroethene), and Vinyl Chloride contamination and localised heavy metal exceedances in the groundwater analysis at the site. Due to exceedances mirrored in the soil analysis, it is considered there is a likely on-site source of contamination which is leaching into the underlying groundwater, and thus posing a potential risk to the underlying Principal aquifer.

In order to determine the full extent of VOC impact and assess the risk to the underlying Principal aquifer, two deep environmental monitoring wells were installed within the bedrock to obtain groundwater samples (Stage 2 supplementary ground investigation). The environmental monitoring wells were installed within RB101 and RB102 to the southeast and southwest of the site respectively, to determine the full extent of the VOC plume previously suggested within the preliminary ground investigation.

A summary of tested groundwater samples submitted will be discussed further under a separate cover (Stage 2 supplementary ground investigation and controlled waters risk assessment).



4. GEOTECHNICAL ASSESSMENT

4.1. SOIL CONSISTENCY

Results of the standard penetration tests, including undrained shear strengths derived from SPTs are included in Table 8.

Table 8 Standard/Cone Penetration Test Results

BOREHOLES	DEPTH (m bgl)	MATERIAL FIELD DESCRIPTION	CPT/SPT "N" VALUE	CORRECTED "N" VALUE (N ₁) ₆₀	TERZAGHI & PECK RELATIVE DENSITY (SANDS)	EUROCODE SOIL STRENGTH	CONSISTENCY (BS 5930)	TERZAGHI & PECK APPROXIMATE UNDRAINED SHEAR STRENGTH (kN/m ²)	ALLOWABLE BEARING CAPACITY (kN/m ²)*
WS201	1.00	Sandy CLAY	4	4.03	N/A	Low strength	Firm	20.16	41.46
WS201	2.00	Sandy CLAY	11	10.05	N/A	Medium strength	Stiff	50.24	103.30
WS201	3.00	Sandy CLAY	23	20.00	N/A	High strength	Very Stiff	100.01	205.62
WS201	4.00	Slightly sandy CLAY with frequent bands of SAND	50	42.24	N/A	Very high strength	Very Stiff	211.21	434.25
WS202	1.00	MADE GROUND	6	6.05	Loose	N/A	N/A	N/A	60.49
WS202	2.00	Very sandy CLAY	15	13.70	N/A	Medium strength	Stiff	68.52	140.87
WS202	3.00	Very sandy CLAY	18	15.65	N/A	High strength	Very Stiff	78.27	160.92
WS202	4.00	Very clayey SAND	50	42.24	Dense	N/A	N/A	N/A	422.43
WS203	1.00	MADE GROUND	5	5.04	Loose	N/A	N/A	N/A	50.41



BOREHOLES	DEPTH (m bgl)	MATERIAL FIELD DESCRIPTION	CPT/SPT "N" VALUE	CORRECTED "N" VALUE (N ₁) ₆₀	TERZAGHI & PECK RELATIVE DENSITY (SANDS)	EUROCODE SOIL STRENGTH	CONSISTENCY (BS 5930)	TERZAGHI & PECK APPROXIMATE UNDRAINED SHEAR STRENGTH (kN/m ²)	ALLOWABLE BEARING CAPACITY (kN/m ²)*
WS203	2.00	Sandy CLAY	16	14.62	N/A	Medium strength	Stiff	73.08	150.26
WS203	3.00	Slightly sandy gravelly CLAY	19	16.52	N/A	High strength	Very Stiff	82.62	169.86
WS203	4.00	SAND	50	42.24	Dense	N/A	N/A	N/A	422.43
WS204	1.00	MADE GROUND	5	5.04	Loose	N/A	N/A	N/A	50.41
WS204	2.00	Very clayey SAND	18	16.44	Medium Dense	N/A	N/A	N/A	164.44
WS204	3.00	Very clayey SAND	14	12.18	Medium Dense	N/A	N/A	N/A	121.75
WS204	4.00	Very sandy CLAY	50	42.24	N/A	Very high strength	Very Stiff	211.21	434.25
WS205	1.00	MADE GROUND	8	8.07	Loose	N/A	N/A	N/A	80.65
WS205	2.00	Slightly silty sandy gravelly CLAY	19	17.36	N/A	High strength	Very Stiff	86.79	178.43
WS205	3.00	Clayey SAND	19	16.52	Medium Dense	N/A	N/A	N/A	165.23
WS205	4.00	Clayey SAND	50	42.24	Dense	N/A	N/A	N/A	422.43
WS206	1.00	Sandy CLAY with bands of SAND	4	4.03	N/A	Low strength	Firm	20.16	41.46
WS206	2.00	Sandy CLAY with bands of SAND	16	14.62	N/A	Medium strength	Stiff	73.08	150.26



BOREHOLES	DEPTH (m bgl)	MATERIAL FIELD DESCRIPTION	CPT/SPT "N" VALUE	CORRECTED "N" VALUE (N ₁) ₆₀	TERZAGHI & PECK RELATIVE DENSITY (SANDS)	EUROCODE SOIL STRENGTH	CONSISTENCY (BS 5930)	TERZAGHI & PECK APPROXIMATE UNDRAINED SHEAR STRENGTH (kN/m ²)	ALLOWABLE BEARING CAPACITY (kN/m ²)*
WS206	3.00	Sandy CLAY with bands of SAND	14	12.18	N/A	Medium strength	Stiff	60.88	125.16
WS206	4.00	Sandy CLAY with bands of SAND	50	42.24	N/A	Very high strength	Very Stiff	211.21	434.25
WS207	1.00	MADE GROUND	9	9.07	Loose	N/A	N/A	N/A	90.73
WS207	2.00	Very gravelly sandy CLAY	12	10.96	N/A	Medium strength	Stiff	54.81	112.69
WS207	3.00	Very sandy gravelly CLAY	10	8.70	N/A	Medium strength	Stiff	54.81	112.69
WS207	4.00	SAND	21	17.74	Medium Dense	N/A	N/A	N/A	177.42
WS207	5.00	GRAVEL	17	14.10	Medium Dense	N/A	N/A	N/A	141.04
WS208	1.00	MADE GROUND	5	5.04	Loose	N/A	N/A	N/A	50.41
WS208	2.00	Silty very sandy CLAY	8	7.31	N/A	Low strength	Firm	36.54	75.13
WS208	3.00	Very clayey SAND	23	20.00	Medium Dense	N/A	N/A	N/A	200.02
WS208	4.00	Very clayey SAND	10	8.45	Loose	N/A	N/A	N/A	84.49
WS211	1.00	MADE GROUND	10	10.08	Medium Dense	N/A	N/A	N/A	100.81
WS211	2.00	Very sandy CLAY	2	1.83	N/A	Extremely low strength	Very Soft	9.14	18.78



BOREHOLES	DEPTH (m bgl)	MATERIAL FIELD DESCRIPTION	CPT/SPT "N" VALUE	CORRECTED "N" VALUE (N ₁) ₆₀	TERZAGHI & PECK RELATIVE DENSITY (SANDS)	EUROCODE SOIL STRENGTH	CONSISTENCY (BS 5930)	TERZAGHI & PECK APPROXIMATE UNDRAINED SHEAR STRENGTH (kN/m ²)	ALLOWABLE BEARING CAPACITY (kN/m ²)*
WS211	3.00	Very clayey SAND	20	17.39	Medium Dense	N/A	N/A	N/A	173.93
WS211	4.00	Very clayey SAND	18	15.21	Medium Dense	N/A	N/A	N/A	152.07
WS211	5.00	Very clayey SAND	12	9.96	Loose	N/A	N/A	N/A	99.55
WS212	1.00	MADE GROUND	4	4.03	Loose	N/A	N/A	N/A	40.33
WS212	2.00	Gravelly very sandy CLAY	14	12.79	N/A	Medium strength	Stiff	63.95	131.48
WS212	3.00	Gravelly very sandy CLAY	50	43.48	N/A	Very high strength	Very Stiff	217.41	447.00

NOTES

* The Allowable Bearing Capacity (ABC) should be considered indicative.

The interpretation of in situ mass undrained shear strength (cu) data from SPT Blow Count (N) results and the influence of the Plasticity Index (PI) was reported in Standard Penetration Test in Insensitive Clays and Soft Rocks. Stroud (1974). The standard penetration test and the engineering properties of glacial materials subsequently. Stroud and Butler (1975) and (1989).

Allowable bearing capacity on sands. Soil Mechanics in Engineering Practice Terzaghi, K. & Peck, R.B. 1996.



4.2. PH AND SULPHATE

Chemical analyses for pH and soluble sulphate content contained in **Error! Reference source not found.** (summarised in Table 9), shows that the soils at the site generally meet Class DS-1, Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1s in accordance with BRE *Special Digest 1* (2005).

Table 9 Summary of pH and Sulphate Data

LOCATION	DEPTH (M)	SO ₄ IN 2:1 WATER/SOIL (G/L)	PH VALUE	CLASSIFICATION
WS201	0.3	0.010	4.0	DS1, AC-1s
WS201	1.2	<0.010	8.0	DS1, AC-1s
WS202	0.6	<0.010	8.1	DS1, AC-1s
WS202	1.9	<0.010	8.2	DS1, AC-1s
WS203	1.1	<0.010	8.0	DS1, AC-1s
WS203	2.6	<0.010	8.3	DS1, AC-1s
WS204	0.2	<0.010	8.2	DS1, AC-1s
WS204	3.1	<0.010	8.1	DS1, AC-1s
WS205	0.5	<0.010	8.1	DS1, AC-1s
WS205	1.4	<0.010	8.2	DS1, AC-1s
WS206	0.6	<0.010	8.1	DS1, AC-1s
WS206	2.3	<0.010	8.3	DS1, AC-1s
WS207	1.0	0.024	8.2	DS1, AC-1s
WS207	1.5	<0.010	8.0	DS1, AC-1s
WS208	0.8	<0.010	8.0	DS1, AC-1s
WS208	3.3	<0.010	8.0	DS1, AC-1s
WS209	0.6	<0.010	8.6	DS1, AC-1s
WS210	0.5	0.012	8.7	DS1, AC-1s
WS211	0.8	0.018	8.7	DS1, AC-1s
WS211	2.4	<0.010	8.6	DS1, AC-1s
WS212	0.6	<0.010	8.8	DS1, AC-1s
WS212	1.7	<0.010	8.9	DS1, AC-1s

4.2.1. HIGHWAYS AND CONCRETE

MCHW Series 600 provides a criteria of 1500 mg/l for water-soluble sulphate within 500 mm of any concrete structure. A second criteria of 300 mg/l is given with respect to soils within 500 mm of steel structures.

4.3. GROUNDWATER

Table 10 Summary of Groundwater Strikes

LOCATION	DEPTH RANGE (M BGL)	DESCRIPTION OF STRIKE	STRATA	EVIDENCE OF CONTAMINATION
Stage 1 Supplementary Ground Investigation Water Strike Information				
WS201	3.30	Seepage	SAND	None identified
WS204	3.30	Seepage	CLAY	None identified
WS205	3.10	Seepage	SAND	None identified
WS206	3.10	Seepage	SAND Bands	None identified



LOCATION	DEPTH RANGE (M BGL)	DESCRIPTION OF STRIKE	STRATA	EVIDENCE OF CONTAMINATION
WS207	0.90	Seepage	MADE GROUND	Very strong hydrocarbon and chemical odour
WS207	4.00	Seepage	SAND	None identified
WS208	0.80	Seepage	MADE GROUND	Strong hydrocarbon odour

The presence of groundwater appears common to the natural superficial deposits, as well as perched groundwater within Made Ground deposits.

4.4. FOUNDATION CONDITIONS AND ASSESSMENT OF POTENTIAL BEARING CAPACITIES

In due consideration of the identified ground conditions and in-situ geotechnical testing, E3P has undertaken an assessment of the safe allowable bearing capacity (ABC) within the underlying natural stratum to assist in the detailed design of foundations and infrastructure and determine the target founding stratum. The results of this assessment are summarised in Table 11.

Table 11 Summary of ABC

GRANULAR SOILS			
Description	Depth (Range m bgl)	Relative Density	Allowable Bearing Capacity (kN/m ²)
Very Clayey SAND (WS208, WS211)	4.00–5.00	Loose	84.49–99.55
Clayey SAND	2.00–4.00	Medium Dense	121.75–200.02
SAND (WS207)	4.00	Medium Dense	177.42
GRAVEL (WS207)	5.00	Medium Dense	141.04
Clayey SAND	4.00	Dense	422.43
COHESIVE SOILS			
Description	Depth (range m bgl)	Undrained Shear Strength (Cu) (kN/m ²)	Allowable Bearing Capacity (kN/m ²)
Very Soft Clayey SAND (WS211)	2.00	9.14	18.78
Firm Silty Sandy CLAY (WS201, WS206)	1.00–2.00	20.16–36.54	41.46–75.13
Stiff Sandy Gravelly CLAY	2.00–3.00	50.24–73.08	103.30–150.26
Very Stiff Sandy Gravelly CLAY	2.00–4.00	78.27–217.41	160.92–447.00

The above ABC data demonstrates that suitable materials for founding have been identified at 1.00–2.00 m bgl within the natural firm to very stiff CLAY and at 2.00 m bgl with the natural medium dense to dense SAND.

Loose SAND was identified in two locations (WS208 and WS211) between 4.00–5.00 m bgl.



Very soft CLAY was identified in one location (WS211) at 2.00 m bgl.

4.5. FOUNDATIONS OPTIONS APPRAISAL

Based on the assessment of the relative undrained shear strength, relative in-situ densities and corresponding safe allowable bearing capacity, the following recommendations have been developed for the site of the potential foundation solutions that may be adopted for the future residential development. The suitable target founding stratum has been identified as the underlying firm to very stiff glacial clays and localised areas of medium dense to dense sands.

Following this assessment, the following foundation recommendations have been determined:

- ✳️ Shallow strip foundations bearing upon the firm to very stiff CLAY at 1.45 m bgl;
- ✳️ Reinforced trench fill to support reinforced strip foundations should be considered where the target bearing stratum is greater than 1.50 m below the proposed level and in areas of softer variable ground and/or potential tree influence;
- ✳️ Driven pile foundations within areas of extensive MADE GROUND (>2.50 m bgl) or anomalies (e.g. loose SAND or very soft CLAY).

Within the site, there are areas of variable ground conditions that will preclude the use of a shallow spread foundation. This includes the footprint of the main factory structure and outbuildings, where extensive Made Ground deposits are anticipated. Therefore, consideration should be given to the use of Ground Improvement by Vibro Stone Column (VSC) to ensure the treatment achieves a suitable ABC to support a doubly reinforced strip foundation or construction of piled foundations.

To determine if VSC is viable at the subject site, E3P has completed a Ground Improvement Design Risk Matrix that is summarised in Table 12.

Table 12 Ground Improvement Design Risk Matrix

RISK ITEM	COMMENT	PASS/FAIL
Soft clays with an undrained shear strength less than 30 kN/m ²	CLAY soils are generally firm to stiff with Cu > 40 kN. Isolated areas of softer clay soils were encountered with Cu > 30 kN/m ² ; however, it is considered that these will either be piled, or soft material excavated to remove the organic deposits.	PASS – on completion of further investigation
Ground with peat layers close to foundation level or the base of the stone column, or where intermediate layers of peat are thicker than 200 mm, either as a single layer or the sum of the thicknesses of individual layers throughout the length of the stone column	No peat or highly organic deposits have been identified during this phase of investigation. However, three historical infilled ponds have been identified which may contain peat layers within the immediate vicinity.	PASS – on completion of further investigation



RISK ITEM	COMMENT	PASS/FAIL
Voided filled ground, e.g. old water tanks, pottery, glass bottles, concrete rubble or brick fill of unsuitable grading	Made Ground beneath the site will likely require removal and processing to render the site suitable for VSC. The existing buildings substructure will also require excavation and processing into a graded aggregate suitable for vibro treatment.	PASS – on completion of enabling works
Loose or non-engineered fill not previously subject to rising or fluctuating water levels saturation	None identified.	PASS – on completion of further investigation
Filled ground still settling or expected to settle under its own weight or due to the effects of surcharging/upfilling where there is a high organic content or where decay is continuing	None identified – the site was historically filled in excess of 100 years ago with a mixture of clayey SAND and sandy CLAY and engineered fill. It is considered that the material has consolidated under self-weight settlement.	PASS
Fill, containing degradable material where organic material forms more than 15% of fill by volume	None identified.	PASS
Clays with a plasticity index greater than 40%	None identified.	PASS
Highly sensitive soils liable to collapse or remoulding	None identified.	PASS
Cohesive soils with trees in influencing distance	Plots where tree influence has been modelled and will either be subject to a piled or mass trench-fill solution.	PASS
Overall Risk Rating and Suitability for Vibratory Ground Improvement		PASS

It is advisable to consult with geotechnical engineers and foundation specialists who can assess the specific ground conditions and design an appropriate Vibro Stone Column system to meet the project's requirements. They will consider factors such as soil composition, depth, and spacing of the stone columns to ensure effective ground improvement and proper load distribution for the strip foundation.

The exception to this would be in the location of the footprint of the area where Made Ground was identified to be deep and within the footprint of the main factory structure where no intrusive ground investigation was completed. Dependent on development levels, plots in this area may require a driven pile foundation.

Foundation depths should take account of the presence of existing and proposed trees, with foundations deepened locally to mitigate the potential for volumetric instability attributed to fluctuations in moisture content, in accordance with the requirements of NHBC standards.

It is recommended that at working drawing stage a foundation schedule is prepared for the development, taking account of the physical change of natural clay soils and the current/proposed locations of trees.

At this time, it is not possible to accurately define the foundation types due to the absence of a full ground investigation and final development levels; however, based on our extensive experience of similar sites, we would anticipate that the final foundation solution would be a combination of the following:



- ✦ Shallow strip foundations bearing on the firm to very stiff gravelly CLAY at 1.45 m bgl;
- ✦ Reinforced trench fill to support reinforced strip foundations should be considered where the target bearing stratum is greater than 1.50 m below the proposed level and in areas of softer variable ground and/or potential tree influence;
- ✦ Driven pile foundations within areas of extensive MADE GROUND (>2.50 m bgl) or anomalies (e.g. loose SAND or very soft CLAY); and
- ✦ Ground improvement by Vibro Stone Columns to ensure the treatment achieves a suitable design ABC to support a doubly reinforced strip foundations or piled foundations within the footprint of the main factory site and outbuildings.

5. CONCLUSIONS AND FURTHER WORKS

Based upon the findings of the Stage 1 supplementary ground investigation, further investigation and subsequent testing within the vicinity of WS207 and WS208 will be required in order to determine the spatial extent of the VOC contamination identified within the Made Ground soils.

As part of the Stage 2 supplementary ground investigation, the 2 deep rotary boreholes were to be positioned in areas where minimal or no impact had been identified in order to avoid inadvertently creating a preferential pathway for potential contamination to migrate down into the underlying principal aquifer.

At the time of writing, 2 deep rotary boreholes had been advanced into the underlying bedrock to 30.00 m bgl with environmental monitoring wells installed. The boreholes (RB101 and RB102) were located within the ring of window sample probeholes drilled in the southeast part of site (WS201 to WS206) and between WS211 and WS212 along the southwestern boundary of the site, respectively.

For the deep monitoring well installations, it was ensured that a circa 5.00 m bentonite seal was created between the base of the superficial deposits and the top of bedrock to prevent a potential pathway for any VOCs contained within shallow Made Ground deposits or groundwater within the superficial deposits penetrating into the underlying Principal Aquifer.

A summary of tested groundwater samples submitted will be discussed further under a separate cover (Stage 2 supplementary ground investigation and controlled waters risk assessment).

Further intrusive ground investigations will also be required within the footprint of the main factory structure, and towards the southern boundary in order to delineate the spatial extent of the VOC contamination identified within soils and groundwater.



We trust the information provided in this letter report is satisfactory however if there is anything further please do not hesitate to contact me.

Yours sincerely,
For and on behalf of E3P Ltd

Prepared by:

Iona Diack
Geoenvironmental Consultant

Reviewed by:

Mark Wilson
Senior Geoenvironmental Consultant

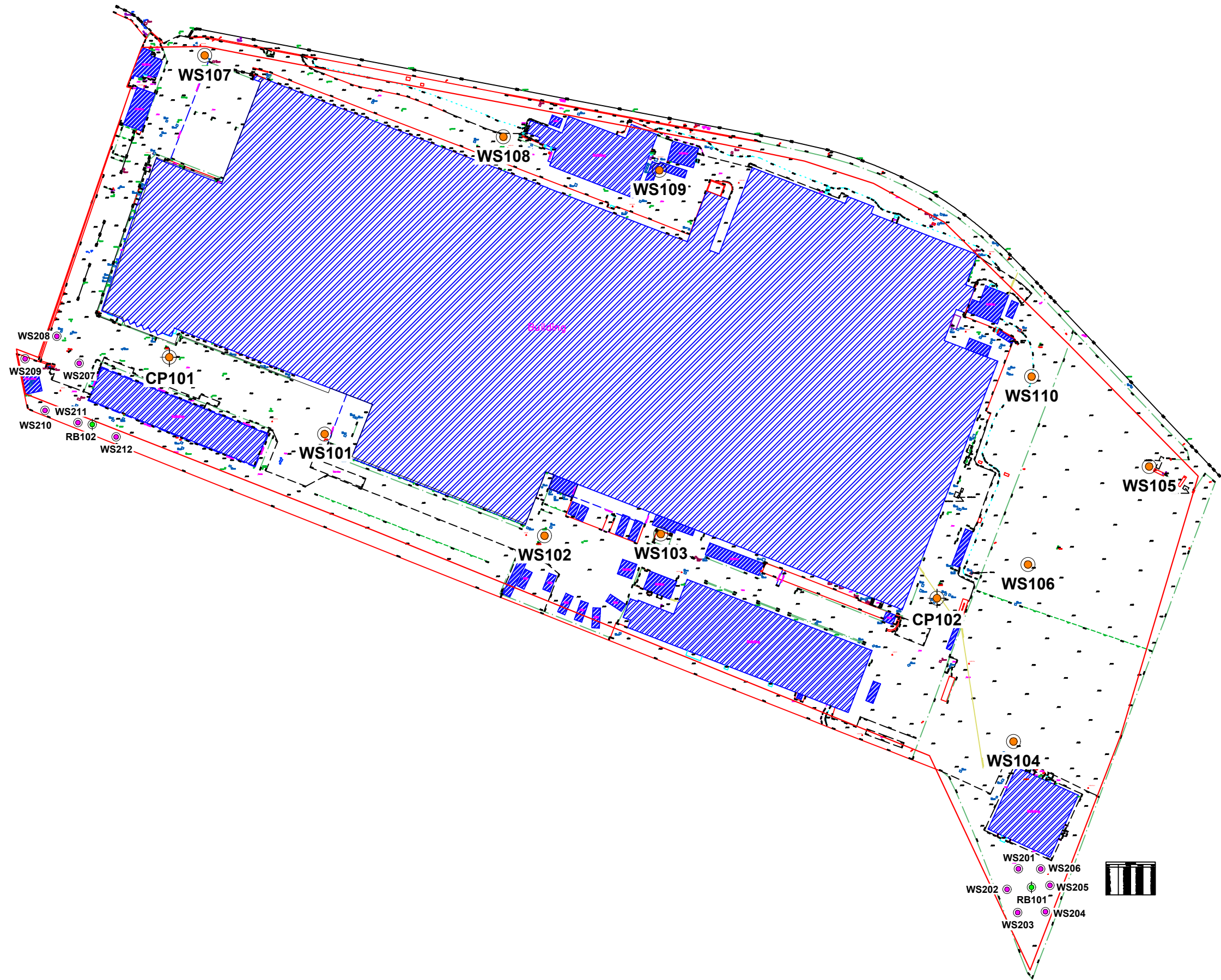
Approved by:

Stephane Cox
Director



Enclosed

-  Drawings
 - 17-500-005 – Exploratory Hole Plan
 - 17-500-006 – Depth of Made Ground
 - 17-500-026 – Human Health Contamination Exceedances Plan
-  Exploratory Hole Records
-  Chemical Analysis Results



Location Symbols

- WS101 Approximate Window Sample Probehole Location (E3P February 2024)
- CP101 Approximate Cable Percussive Borehole Location (E3P February 2024)
- WS101 Proposed Window Sample Probehole Location
- RB101 Proposed Rotary Borehole Location

Notes:

P1	REVC	07.10.2024	OW	ID	MW
P1	REVB	13.05.2024	EB	ID	MW
P1	REVA	22.03.2024	EB	ID	MW
Phase	Issue	Date	Drawn	Checked	PM

Client:

Glen Dimplex

Job Title:

Prescott

Job No:

17-500

Drawing No:

005

Drawing Title:

Exploratory Hole Location Plan

Date:

07.10.2024

Scale:

NTS @ A3



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Location Symbols

WS101

Approximate Window Sample Probehole Location (E3P February 2024)

CP101

Approximate Cable Percussive Borehole Location (E3P February 2024)

WS201

Proposed Window Sample Probehole Location

RB101

Proposed Rotary Borehole Location

Made Ground Depth (m)

Depth of Made Ground 0.50 - 0.74m

Depth of Made Ground 0.75 - 0.99m

Depth of Made Ground 1.00 - 1.24m

Depth of Made Ground 1.25 - 1.49m

Depth of Made Ground 1.50 - 1.74m

Depth of Made Ground 1.75 - 1.99m

Depth of Made Ground >2.00m

Notes:

P1	REVD	03.10.2024	OW	MW	MW
P1	REVC	21.05.2024	OW	MW	MW
P1	REVB	13.05.2024	EB	ID	MW
P1	REVA	25.03.2024	EB	ID	MW
Phase	Issue	Date	Drawn	Checked	PM

Client:

Glen Dimplex

Job No:

17-500

Date:

03.10.2024

Drawing No:

006

Scale:

NTS @ A3

Job Title:

Prescott

Drawing Title:

Depth of Made Ground Plan

e3p

Environmental Engineering Partnership Ltd

Taylor Road, Trafford Park

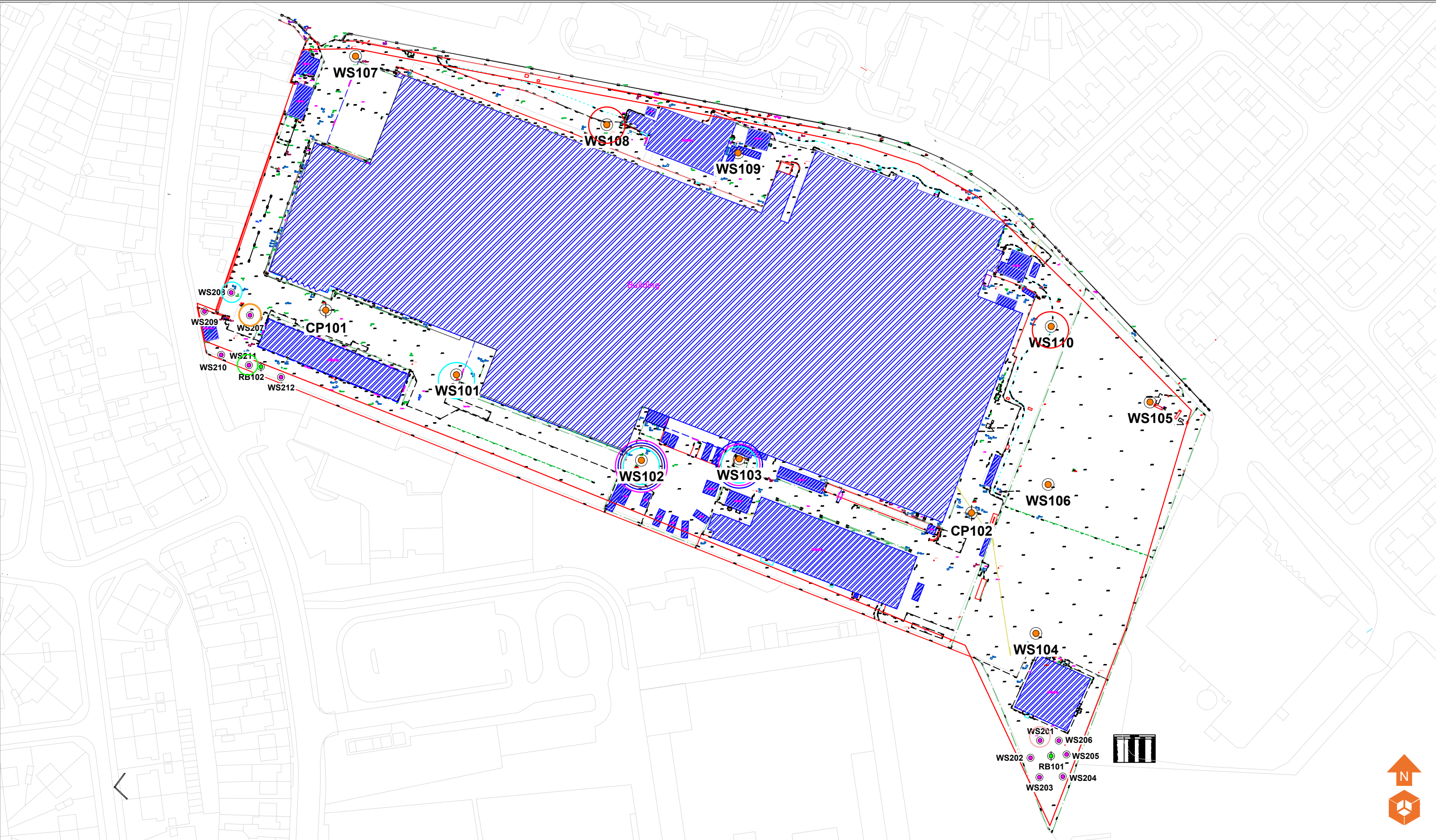
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Location Symbols

WS101

Approximate Window Sample Probehole Location (E3P February 2024)

CP101

Approximate Cable Percussive Borehole Location (E3P February 2024)

Contamination Exceedances

Trichloroethene

Vinyl Chloride

Cis 1, 2 - Dichloroethene

Trans 1, 2 - Dichloroethene

Heavy Metal

1,2,4- Trimethylbenzene

Mercury

Lead

Notes:

P1	REVD	07.10.2024	OW	MW	MW
P1	REVC	03.10.2024	OW	MW	MW
P1	REVB	21.05.2024	OW	MW	MW
P1	REVA	13.05.2024	EB	ID	MW
Phase	Issue	Date	Drawn	Checked	PM

Client:

Glen Dimplex

Job No:

17-500

Date:

07.10.2024

Drawing No:

026

Scale:

NTS @ A3

Job Title:

Prescott

Drawing Title:

Human Health Contamination Exceedances Plan

e3p

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Borehole Log

Borehole No.

WS201

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348142.86 - 391385.04

Hole Type
WS

Location: Prescot

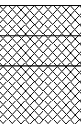
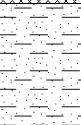
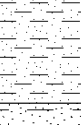
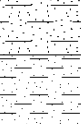
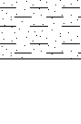
Level: 59.89

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES	PID=0	0.20 0.40	59.69 59.49		MADE GROUND: Dark brown slightly sandy CLAY with frequent rootlets (Reworked Topsoil).	1
		1.00	ES	N=4 (1,1/1,1,1,1) PID=0	0.80	59.09		MADE GROUND: Brown gravelly clay. Gravel is fine to coarse, subangular to subrounded of mudstone, coal, and metal.	
		1.20						MADE GROUND: Black sandy gravel. Gravel is fine to coarse, subangular to subrounded of brick, ash, slag, concrete, coal and mudstone.	
		2.00		N=11 (1,2/2,3,3,3)				Firm low strength brown mottled black and grey sandy CLAY. (Becoming stiff medium strength at 2.00 m bgl).	2
		3.00	ES	N=23 (5,5/5,6,6,6)	3.10	56.79		Medium dense brown very clayey fine to medium SAND.	3
		3.60			3.60	56.29		Very stiff very high strength brown slightly sandy CLAY with frequent bands of brown fine to medium SAND.	4
		4.00		88 (5,6/88 for 290mm)	4.44	55.45			5
								End of borehole at 4.44 m	6
									7
									8
									9
									10

Remarks

1. Refusal on stiff CLAY at 4.44 m bgl. 2. Water Strike encountered at 3.30 m bgl within SAND. 3. No elevated PID readings. 4. No odours encountered.



Borehole Log

Borehole No.

WS202

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348137.17 - 391379.87

Hole Type
WS

Location: Prescot

Level: 59.69

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.25	ES	PID=0	0.25	59.44		MADE GROUND: Dark brown sandy clay with frequent rootlets (Reworked Topsoil).	1
		0.30			0.30	59.39		MADE GROUND: Brown very sandy gravel with rare cobbles. Gravel is fine to coarse, subangular to subrounded of concrete, brick, mudstone, metal, tile, fabric, ash and mudstone. Cobbles are angular of concrete.	
		0.60	ES	N=6 (1,1/2,2,1,1) PID=0	1.20	58.49		MADE GROUND: Brown mottled orange and black gravelly clay. Gravel is fine to medium, subangular to rounded of sandstone, mudstone and rare cloth at 1.10 m bgl.	
		1.00						Stiff medium strength greyish brown very sandy CLAY. (Becoming very stiff high strength at 3.00 m bgl).	
		1.90		N=15 (1,2/3,3,4,5)					
		2.00	ES						
		3.00		N=18 (2,2/3,3,5,7)					
		3.30							
		3.40						Very stiff high strength brown mottled grey slightly gravelly CLAY.	
		3.80		92 (7,12/92 for 275mm)				Stiff brown slightly gravelly very sandy CLAY. Gravel is fine to medium, subangular to rounded of mudstone.	
		4.00						Dense brown very clayey fine to medium SAND.	
		4.43			4.43	55.26		End of borehole at 4.43 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Refusal on stiff CLAY at 4.43 m bgl. 2. No groundwater encountered. 3. No elevated PID readings. 4. No odours encountered.



Borehole Log

Borehole No.

WS203

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348137.56 - 391372.38

Hole Type
WS

Location: Prescot

Level: 59.56

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
				PID=0	0.20 0.35	59.36 59.21		MADE GROUND: Brown sandy clay with frequent rootlets (Reworked Topsoil).	1
								MADE GROUND: Brown very gravelly clay. Gravel is fine to medium, subangular to rounded of mudstone (Reworked CLAY).	
		1.00		N=5 (1,1/1,1,1,2) PID=0				MADE GROUND: Brown mottled black very sandy slightly gravelly clay. Gravel is fine to coarse, angular to subrounded of brick, concrete, sandstone, coal and rare ash. Cobbles are angular of brick.	
		1.10	ES		1.20	58.36		Stiff medium strength greyish brown sandy CLAY.	2
		2.00		N=16 (2,2/3,4,4,5)					
					2.20	57.36		Very stiff high strength brown mottled grey slightly sandy gravelly CLAY. Gravel is fine to medium, subangular to rounded of mudstone.	
		2.60	ES						3
		3.00		N=19 (2,3/3,4,5,7)	3.10	56.46		Very stiff high strength brown very sandy CLAY.	
					3.80	55.76			
		4.00		98 (13,25/98 for 280mm)				Dense brown fine to medium SAND.	4
					4.43	55.13			5
End of borehole at 4.43 m									
							6		
							7		
							8		
							9		
							10		

Remarks

1. Refusal on stiff CLAY at 4.43 m bgl. 2. No groundwater encountered. 3. No elevated PID readings. 4. No odours encountered.

Borehole Log

Borehole No.

WS204

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348145.75 - 391365.73

Hole Type
WS

Location: Prescot

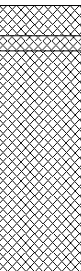
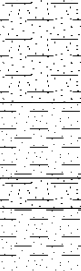
Level: 59.61

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES	PID=0	0.20 0.30	59.41 59.31		MADE GROUND: Brown slightly sandy gravelly clay with frequent rootlets. Gravel is fine to medium, subangular to rounded of brick. MADE GROUND: Black gravel fine to medium sand. Gravel is fine to coarse, very angular to subrounded of ash and concrete. MADE GROUND: Brown sandy very gravelly clay. Gravel is fine to coarse, subangular to rounded of mudstone with rare mudstone cobble at 1.60 m bgl.	1
		1.00		N=5 (1,1/1,1,1,2) PID=0					
		2.00		N=18 (2,3/5,5,4,4)	1.80	57.81		Medium dense brown and grey very clayey fine to medium SAND.	2
		2.50			2.50	57.11		Firm greyish brown sandy CLAY.	
		3.00 3.10	ES	N=14 (3,3/3,3,4,4)	3.00 3.20	56.61 56.41		Medium dense greyish brown very clayey fine to medium SAND. Very stiff very high strength reddish brown very sandy CLAY.	3
		4.00		88 (4,9/88 for 290mm)	4.44	55.17		End of borehole at 4.44 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Refusal on stiff CLAY at 4.44 m bgl. 2. Water strike encountered at 3.30 m bgl within CLAY. 3. No elevated PID readings. 4. No odours encountered.



Borehole Log

Borehole No.

WS205

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348152.76 - 391376.42

Hole Type
WS

Location: Prescot

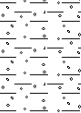
Level: 59.89

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20			0.20	59.69		MADE GROUND: Brown sandy clay with frequent rootlets (Reworked Topsoil).	
		0.50	ES	PID=0	0.80	59.09		MADE GROUND: Dark brown gravelly clay. Gravel is fine to medium, angular to subrounded of brick, concrete, mudstone, ash, and rare slag.	
		1.00		N=8 (1,2/2,1,2,3) PID=0	1.10	58.79		MADE GROUND: Brown mottled grey very sandy with frequent bands of orange very clayey fine to medium sand (Reworked CLAY).	1
		1.40	ES					Stiff medium strength brown mottled black and grey slightly silty sandy gravelly CLAY. Gravel is fine to medium, subangular to rounded of mudstone.	
		2.00		N=19 (2,2/3,3,6,7)	2.10	57.79		Very stiff high strength brown very sandy CLAY with frequent bands of brown fine to medium SAND.	2
		2.60			2.60	57.29		Medium dense brown very clayey fine to medium SAND. (Becoming dense at 4.00 m bgl).	
		3.00		N=19 (3,4/4,3,5,7)					3
		4.00		80 (8,11/80 for 210mm)					4
		4.36			4.36	55.53			
								End of borehole at 4.36 m	

Remarks

1. Refusal on stiff CLAY at 4.36 m bgl. 2. Water strike encountered at 3.10 m bgl within SAND. 3. No elevated PID readings. 4. No odours encountered.





Borehole Log

Borehole No.

WS206

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 348148.34 - 391382.50

Hole Type
WS

Location: Prescot

Level: 59.99

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 19/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	59.79		MADE GROUND: Brown sandy clay with frequent rootlets (Reworked Topsoil).	
		0.60	ES	PID=0	0.50	59.49		MADE GROUND: Dark brown very sandy very gravelly clay. Gravel is fine to coarse, very angular to subrounded of brick, ash, coal, mudstone and sandstone.	
		1.00		N=4 (1,1/1,1,1,1) PID=0	0.70	59.29			
					0.90	59.09		MADE GROUND: Black slightly sandy gravel. Gravel is fine to coarse, very angular to subrounded of ash, coal, slag, brick, sulphates and spent oxides	1
		2.00		N=16 (3,3/3,4,4,5)				MADE GROUND: Brown gravelly clay. Gravel is fine to medium, subangular to rounded of mudstone (Reworked CLAY).	
		2.30	ES					Firm low strength brown sandy CLAY with bands of orange fine to medium SAND. (Becoming stiff medium strength at 2.00 m bgl). (Becoming very stiff very high strength at 4.00 m bgl).	2
		3.00		N=14 (2,2/3,3,4,4)					3
		4.00		88 (6,8/88 for 285mm)					4
					4.44	55.55			
								End of borehole at 4.44 m	5
									6
									7
									8
									9
									10

Remarks

1. Refusal on stiff CLAY at 4.44 m bgl. 2. Water strike encountered at 3.10 m bgl within SAND bands. 3. No elevated PID readings. 4. No odours encountered.





Borehole Log

Borehole No.

WS207

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347839.21 - 391545.35

Hole Type
WS

Location: Prescot

Level: 58.76

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	58.46		MADE GROUND: Concrete.	
					0.60	58.16		MADE GROUND: Black slightly silty very sandy gravel. Gravel is fine to coarse, very angular to subrounded of ash, asphalt, brick and concrete.	
		0.80	ES	N=9 (2,3/3,2,2,2) PID=273	1.10	57.66		MADE GROUND: Dark yellow and black slightly gravelly slightly clayey fine to medium sand. Gravel is fine to medium, angular to subangular of concrete (Very strong hydrocarbon and chemical odour).	1
		1.00			1.30	57.46		Loose brown slightly silty fine to medium SAND. Stiff medium strength brown very gravelly sandy CLAY. Gravel is fine to medium, subangular to rounded of mudstone.	2
		2.00			2.20	56.56		Stiff medium strength brown very clayey fine to medium SAND.	
		3.00			2.80	55.96		Stiff medium strength brown very sandy gravelly CLAY. Gravel is fine to medium, subangular to rounded of mudstone.	3
		3.30	ES	N=10 (3,3/2,3,3,2)	3.10	55.66		Medium Dense brown fine to medium SAND.	
		4.00			4.60	54.16		Medium dense brown GRAVEL. Gravel is fine to medium, subangular to rounded of mudstone and sandstone.	4
		5.00			5.45	53.31		End of borehole at 5.45 m	5
									6
									7
									8
									9
									10

Remarks

1. Complete. 2. Water strike encountered at 0.90 m bgl and 4.00 m bgl. 3. Very strong hydrocarbon and chemical odour encountered in MADE GROUND 0.30 - 1.10 m bgl. 4. Peak PID reading of 273ppm within MADE GROUND 1.00 m bgl.





Borehole Log

Borehole No.

WS208

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347824.41 - 391547.19

Hole Type
WS

Location: Prescot

Level: 58.78

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	58.48		MADE GROUND: Concrete.	
					0.60	58.18		MADE GROUND: Grey slightly sandy gravel. Gravel is fine to coarse, angular to subrounded of concrete and limestone (sub base).	
		1.00	ES	N=5 (0,0/1,1,1,2) PID=0	1.10	57.68		MADE GROUND: Black silty sandy gravelly clay with rare cobbles. Gravel is fine to coarse, very angular to subrounded of brick, concrete, mudstone, sandstone. Cobbles are angular of brick. (Strong hydrocarbon odour).	1
		1.50	ES					Firm low strength brown silty very sandy CLAY. (Slight hydrocarbon odour).	
		2.00		N=8 (2,2/3,2,1,2)					2
		3.00		N=23 (3,3/3,5,6,9)	2.60	56.18		Medium dense brown very clayey fine to medium SAND. (Very slightly hydrocarbon odour). (Becoming loose at 4.00 m bgl).	3
		4.00		N=10 (4,4/4,2,2,2)					4
					4.45	54.33			
								End of borehole at 4.45 m	5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to collapse in SAND at 4.45 m bgl. 2. Water strike encountered at 0.80 m bgl. 3. Strong Hydrocarbon odour noted in MADE GROUND / CLAY / SAND deposits at 0.60 - 4.45 m bgl. 4. No elevated PID readings recorded.





Borehole Log

Borehole No.

WS209

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347816.77 - 391543.94

Hole Type
WS

Location: Prescot

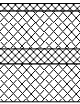
Level: 58.42

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.60	ES	PID=0	0.05	58.37		MADE GROUND: Asphalt recovered as: Black Gravel. Gravel is fine to coarse of asphalt.	1	
					0.30	58.12		MADE GROUND: Black and red clayey sand and gravel with frequent cobbles. Gravel is fine to coarse, very angular to subrounded of brick, concrete, mudstone, slate, sandstone, ash, and rare metal. Cobbles are angular of metal rebar at 0.25 m. (Strong hydrocarbon odour).		
					0.40	58.02		MADE GROUND: Assumed concrete slab.		
					0.65	57.77		MADE GROUND: Brown and red very clayey gravel with frequent cobbles. Gravel is fine to coarse, very angular to subrounded of brick, mudstone, ash, sandstone, metal and slag. Cobbles are very angular to angular of brick. (Strong hydrocarbon odour).		
End of borehole at 0.65 m									2	
									3	
									4	
									5	
									6	
									7	
									8	
									9	
									10	

Remarks

1. Terminated due to assumed concrete slab limiting ability to Hand Pit and associated risk with proximity to services. 2. No groundwater encountered. 3. No elevated PID readings. 4. Strong hydrocarbon odour encountered in MADE GROUND at 0.05-0.30 m bgl and 0.40-0.65 m bgl.





Borehole Log

Borehole No.

WS210

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347821.69 - 391530.34

Hole Type
WS

Location: Prescot

Level: 58.53

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES	PID=0	0.10	58.43		MADE GROUND: Asphalt recovered as: Black Gravel. Gravel is fine to coarse of asphalt. MADE GROUND: Red and black sandy clayey gravel with frequent cobbles. Gravel is fine to coarse, very angular to subrounded of brick, concrete, slag, ash, mudstone, sandstone and rare metal. Cobbles are very angular to angular of brick and concrete. MADE GROUND: Concrete slab. MADE GROUND: Red and black sandy gravel. Gravel is fine to coarse, very angular to subrounded of brick, concrete, sandstone, mudstone and ash. End of borehole at 0.55 m	1
					0.30	58.23			
					0.40	58.13			
					0.55	57.98			
									2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks

1. Terminated due to assumed concrete slab limiting ability to Hand Pit and associated risk with proximity to services. 2. No groundwater encountered. 3. No elevated PID readings. 4. No odours encountered.





Borehole Log

Borehole No.

WS211

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347834.74 - 391524.29

Hole Type
WS

Location: Prescot

Level: 58.88

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	58.78		MADE GROUND: Asphalt recovered as: Black Gravel. Gravel is fine to coarse of asphalt.	
		0.40			0.40	58.48		MADE GROUND: Red and black clayey gravel. Gravel is fine to coarse, very angular to subrounded of brick, concrete, ash, mudstone, sandstone, metal and rare tile. Cobbles are angular of brick.	
		0.80	ES	PID=8				MADE GROUND: Black silty very gravelly sandy CLAY. Gravel is fine to coarse, very angular to subrounded of brick and mudstone. (Strong hydrocarbon odour).	1
		1.00		N=10 (2,2/2,3,2,3)	1.10	57.78		MADE GROUND: Black silty very gravelly sandy CLAY. Gravel is fine to coarse, very angular to subrounded of brick and mudstone. (Strong hydrocarbon odour).	
		1.60			1.60	57.28		Stiff medium strength grey silty very sandy CLAY. Soft to firm brown sandy CLAY.	
		2.00		N=2 (0,0/1,0,0,1)	2.00	56.88		Very soft extremely low strength brown mottled black very sandy CLAY. (Slight hydrocarbon odour).	2
		2.40	ES					Medium dense brown very clayey fine to medium SAND. (Becoming loose at 5.00 m bgl).	
		2.50			2.50	56.38		Medium dense brown very clayey fine to medium SAND. (Becoming loose at 5.00 m bgl).	
		3.00		N=20 (3,3/4,5,5,6)					3
		4.00		N=18 (3,3/4,5,4,5)					4
		5.00		N=12 (2,2/3,2,3,4)					5
					5.45	53.43		End of borehole at 5.45 m	6
									7
									8
									9
									10

Remarks

1. Completed. 2. Hole collapsed back to 5.00m bgl following SPT test. 3. No groundwater encountered. 4. Peak PID reading of 7.7ppm at 0.80 m bgl. 5. Strong hydrocarbon odour encountered within MADE GROUND from 0.40 - 1.00 m bgl. 6. Slight hydrocarbon odour within natural CLAY deposits from 2.00-2.50 m bgl.





Borehole Log

Borehole No.

WS212

Sheet 1 of 1

Project Name: Glen Dimplex

Project No.
17500

Co-ords: 347845.47 - 391520.04

Hole Type
WS

Location: Prescot

Level: 59.10

Scale
1:50

Client: Glen Dimplex Homes Appliances Ltd

Dates: 20/08/2024 -

Logged By
I.Diack

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10			0.10	59.00		MADE GROUND: Asphalt recovered as: Black Gravel. Gravel is fine to coarse of asphalt.	
		0.60	ES		0.80	58.30		MADE GROUND: Red and black clayey gravel with occasional cobbles. Gravel is fine to coarse, very angular to subrounded of brick, concrete, ash, slag and mudstone. Cobbles are angular to subangular of brick.	1
		1.00		N=4 (0,0/1,0,2,1) PID=4	1.10	58.00			
		1.70	ES					MADE GROUND: Black silty sandy clay with occasional with occasional cobbles. Gravel is fine to coarse, very angular to subrounded of brick, mudstone, ash and rare slag. Cobbles are angular to brick.	
		2.00		N=14 (2,2/3,2,3,6)				Stiff medium strength brown mottled grey gravelly very sandy CLAY. Gravel is fine to medium, subangular to rounded of mudstone. (Becoming very stiff very high strength at 3.00 m bgl).	2
		3.00		50 (5,5/50 for 295mm)					3
					3.45	55.65		End of borehole at 3.45 m	4
									5
									6
									7
									8
									9
									10

Remarks

1. Refusal on CLAY at 3.45 m bgl. 2. No groundwater encountered. 3. Peak PID reading of 4.0ppm at 1.00 m bgl within MADE GROUND. 4. Strong Hydrocarbon odour encountered within WS212 from 0.80-1.10 m bgl.





2183

Final Report

Report No.: 24-26983-1

Initial Date of Issue: 30-Aug-2024

Re-Issue Details:

Client E3P

Client Address: Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contact(s):

Project Glen Dimplex - Stage 1

Quotation No.: **Date Received:** 22-Aug-2024

Order No.: 009188 **Date Instructed:** 22-Aug-2024

No. of Samples: 22

Turnaround (Wkdays): 5 **Results Due:** 29-Aug-2024

Date Approved: 30-Aug-2024

Annroved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854885	1854886	1854887	1854888	1854889	1854890	1854891			
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	NAT	MG	NAT	MG			
		Client Sample ID.:	WS201	WS201	WS202	WS202	WS203	WS203	WS204			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.3	1.2	0.6	1.9	1.1	2.6	0.2			
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024			
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00			
		Asbestos Lab:	NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-		-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	20	24	25	19	29	21	22
pH at 20C		U	2010		4.0	8.0	8.1	8.2	8.0	8.3	8.2	8.1
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur		U	2175	%	0.010	0.070	0.060	0.050	0.020	0.020	0.010	0.040
Cyanide (Total)		U	2300	mg/kg	0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	2.0	2.4	2.6	2.5	2.5	2.5	2.3
Sulphate (Total)		U	2430	%	0.010	0.12	0.022	0.064	0.020	< 0.010	< 0.010	0.016
Arsenic		U	2455	mg/kg	0.5	25	8.1	13	3.1	6.2	9.0	8.4
Cadmium		U	2455	mg/kg	0.10	3.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17
Chromium		U	2455	mg/kg	0.5	66	40	26	29	24	52	22
Copper		U	2455	mg/kg	0.50	260	36	57	14	27	24	34
Mercury		U	2455	mg/kg	0.05	0.53	0.07	0.13	0.05	< 0.05	< 0.05	< 0.05
Nickel		U	2455	mg/kg	0.50	160	34	28	23	23	52	30
Lead		U	2455	mg/kg	0.50	250	31	75	14	21	12	24
Selenium		U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	1.1	< 0.25
Zinc		U	2455	mg/kg	0.50	680	64	85	24	52	56	120
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.53	< 0.50
Total Organic Carbon		U	2625	%	0.20	4.5	0.91	2.2	0.48	0.97	< 0.20	0.89
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	2680	mg/kg	0.10	2.5	2.5	1.1	0.12	1.4	0.76	7.0
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	2680	mg/kg	0.10	3.6	4.8	0.40	0.61	3.2	1.1	13
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	2680	mg/kg	0.10	4.1	4.8	0.54	< 0.10	1.8	0.38	2.4
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	2680	mg/kg	0.10	17	46	4.7	0.61	1.7	0.88	1.0
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	2680	mg/kg	0.10	7.7	13	8.3	5.9	8.5	5.8	6.9
Total Aliphatic Hydrocarbons		N	2680	mg/kg	1.0	35	72	15	7.2	17	9.0	30
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	2680	mg/kg	0.10	0.37	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	2680	mg/kg	0.10	1.9	1.1	0.80	0.74	0.99	0.88	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	2680	mg/kg	0.10	8.0	5.6	4.3	3.6	28	38	5.4
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	2680	mg/kg	0.10	7.0	3.5	1.3	< 0.10	< 0.10	< 0.10	2.3

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:				24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:				1854885	1854886	1854887	1854888	1854889	1854890	1854891
Order No.: 009188		Client Sample Ref.:				MG	NAT	MG	NAT	MG	NAT	MG
		Client Sample ID.:				WS201	WS201	WS202	WS202	WS203	WS203	WS204
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.3	1.2	0.6	1.9	1.1	2.6	0.2
		Date Sampled:				19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024
		Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:				NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	2680	mg/kg	0.10	34	3.4	0.80	0.61	0.85	0.25	44
Total Aromatic Hydrocarbons		N	2680	mg/kg	1.0	51	14	7.2	4.9	30	39	52
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	2680	mg/kg	2.0	86	85	22	12	46	48	82
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854885	1854886	1854887	1854888	1854889	1854890	1854891	
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	NAT	MG	NAT	MG	
		Client Sample ID.:	WS201	WS201	WS202	WS202	WS203	WS203	WS204	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.3	1.2	0.6	1.9	1.1	2.6	0.2	
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00	
		Asbestos Lab:	NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Ethylbenzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854885	1854886	1854887	1854888	1854889	1854890	1854891	
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	NAT	MG	NAT	MG	
		Client Sample ID.:	WS201	WS201	WS202	WS202	WS203	WS203	WS204	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.3	1.2	0.6	1.9	1.1	2.6	0.2	
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00	
		Asbestos Lab:	NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:										
Quotation No.:		Chemtest Sample ID.:										
Order No.: 009188		Client Sample Ref.:										
		Client Sample ID.:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Time Sampled:										
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Carbazole		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854892	1854893	1854894	1854895	1854896	1854897	1854898	1854899	1854900	1854901
Order No.: 009188		Client Sample Ref.:	NAT	MG	NAT	MG	NAT	MG	NAT	MG	NAT	MG
		Client Sample ID.:	WS204	WS205	WS205	WS206	WS206	WS206	WS207	WS207	WS207	WS207
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	3.1	0.5	1.4	0.6	2.3	1.0	1.5	1.5	1.5	1.5
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A		-		-		-	
Asbestos Identification		U	2192		N/A		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	
Moisture		N	2030	%	0.020	22	24	24	20	16	14	23
pH at 20C		U	2010		4.0	8.0	8.1	8.2	8.1	8.3	8.2	8.0
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.024	< 0.010
Total Sulphur		U	2175	%	0.010	0.010	0.14	0.060	0.19	0.040	0.070	0.010
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	2.1	2.9	2.3	2.4	2.6	5.3	5.1
Sulphate (Total)		U	2430	%	0.010	< 0.010	0.089	0.048	0.094	0.090	0.19	< 0.010
Arsenic		U	2455	mg/kg	0.5	4.4	8.1	9.2	23	18	1.0	1.0
Cadmium		U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	3.4	< 0.10	< 0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	25	5.9	16	12	28	15	26
Copper		U	2455	mg/kg	0.50	16	69	56	280	77	5.1	11
Mercury		U	2455	mg/kg	0.05	< 0.05	< 0.05	0.12	0.16	0.17	< 0.05	< 0.05
Nickel		U	2455	mg/kg	0.50	20	20	15	63	26	10	20
Lead		U	2455	mg/kg	0.50	9.5	47	110	120	97	8.0	5.8
Selenium		U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc		U	2455	mg/kg	0.50	26	32	57	88	87	170	53
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon		U	2625	%	0.20	0.59	9.9	2.4	8.5	2.1	0.47	0.49
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	2680	mg/kg	0.10	6.8	7.2	6.5	5.9	5.1	79	4.4
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	2680	mg/kg	0.10	12	12	12	8.6	8.5	230	8.9
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	2680	mg/kg	0.10	2.2	3.5	1.5	2.1	1.8	6.6	1.8
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	1.3	0.62	3.1	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	2680	mg/kg	0.10	6.9	2.0	3.3	4.6	5.3	3.6	3.4
Total Aliphatic Hydrocarbons		N	2680	mg/kg	1.0	28	25	24	22	24	320	19
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	24	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	2680	mg/kg	0.10	1.7	< 0.10	< 0.10	< 0.10	< 0.10	29	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	2680	mg/kg	0.10	5.3	5.9	5.2	5.0	5.3	6.5	4.9
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	1.7	0.75	4.3	0.12	< 0.10

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854892	1854893	1854894	1854895	1854896	1854897	1854898
Order No.: 009188		Client Sample Ref.:	NAT	MG	NAT	MG	NAT	MG	NAT
		Client Sample ID.:	WS204	WS205	WS205	WS206	WS206	WS207	WS207
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	3.1	0.5	1.4	0.6	2.3	1.0	1.5
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	20-Aug-2024	20-Aug-2024
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:		NEW-ASB		NEW-ASB		NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	2680	mg/kg	0.10	0.64	0.65	0.66	0.50
Total Aromatic Hydrocarbons		N	2680	mg/kg	1.0	7.6	6.5	7.5	6.2
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	2680	mg/kg	2.0	35	31	32	28
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	2760	µg/kg	20	< 20	< 20	< 20	< 20
Chloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10
Toluene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854892	1854893	1854894	1854895	1854896	1854897	1854898	
Order No.: 009188		Client Sample Ref.:	NAT	MG	NAT	MG	NAT	MG	NAT	
		Client Sample ID.:	WS204	WS205	WS205	WS206	WS206	WS207	WS207	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	3.1	0.5	1.4	0.6	2.3	1.0	1.5	
		Date Sampled:	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	20-Aug-2024	20-Aug-2024	
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00	
		Asbestos Lab:		NEW-ASB		NEW-ASB		NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Ethylbenzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	58
Bromobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	110
2-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	220
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1100
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	110
1,3-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	150
1,4-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:		24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:		1854892	1854893	1854894	1854895	1854896	1854897	1854898	
Order No.: 009188		Client Sample Ref.:		NAT	MG	NAT	MG	NAT	MG	NAT	
		Client Sample ID.:		WS204	WS205	WS205	WS206	WS206	WS207	WS207	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		3.1	0.5	1.4	0.6	2.3	1.0	1.5	
		Date Sampled:		19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	20-Aug-2024	20-Aug-2024	
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00	
		Asbestos Lab:			NEW-ASB		NEW-ASB		NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:				24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:				1854892	1854893	1854894	1854895	1854896	1854897	1854898
Order No.: 009188		Client Sample Ref.:				NAT	MG	NAT	MG	NAT	MG	NAT
		Client Sample ID.:				WS204	WS205	WS205	WS206	WS206	WS207	WS207
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				3.1	0.5	1.4	0.6	2.3	1.0	1.5
		Date Sampled:				19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	19-Aug-2024	20-Aug-2024	20-Aug-2024
		Time Sampled:				12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:					NEW-ASB		NEW-ASB		NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Carbazole		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854899	1854900	1854901	1854902	1854903	1854904	1854905			
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	MG	MG	NAT	MG			
		Client Sample ID.:	WS208	WS208	WS209	WS210	WS211	WS211	WS212			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.8	3.3	0.6	0.5	0.8	2.4	0.6			
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024			
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00			
		Asbestos Lab:	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-		-	-	-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	20	24	18	22	19	15	28
pH at 20C		U	2010		4.0	8.0	8.0	8.6	8.7	8.7	8.6	8.8
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	< 0.010	< 0.010	0.091	0.012	0.018	< 0.010	< 0.010
Total Sulphur		U	2175	%	0.010	0.11	0.020	0.060	0.090	0.10	0.060	0.11
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	5.4	2.4	2.9	19	2.3	2.7	3.4
Sulphate (Total)		U	2430	%	0.010	0.13	0.012	0.16	0.25	0.23	0.21	0.38
Arsenic		U	2455	mg/kg	0.5	15	8.8	15	19	15	3.5	0.7
Cadmium		U	2455	mg/kg	0.10	< 0.10	< 0.10	2.4	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	27	49	23	15	19	35	15
Copper		U	2455	mg/kg	0.50	45	27	120	82	91	28	8.0
Mercury		U	2455	mg/kg	0.05	0.25	< 0.05	0.21	0.06	4.1	0.05	0.05
Nickel		U	2455	mg/kg	0.50	24	59	30	31	19	32	4.1
Lead		U	2455	mg/kg	0.50	75	14	120	87	150	30	8.4
Selenium		U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Zinc		U	2455	mg/kg	0.50	140	72	530	300	86	61	230
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon		U	2625	%	0.20	3.6	0.40	2.8	3.0	3.5	1.9	2.2
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	2680	mg/kg	0.10	3.6	2.9	3.3	2.8	3.8	3.5	3.5
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	2680	mg/kg	0.10	7.9	11	6.7	7.5	8.5	5.7	6.4
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	2680	mg/kg	0.10	1.6	1.6	5.7	1.7	3.0	1.6	0.98
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	14	< 0.10	4.6	2.1	1.1
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	2680	mg/kg	0.10	2.9	2.4	6.3	0.52	3.5	1.3	4.3
Total Aliphatic Hydrocarbons		N	2680	mg/kg	1.0	16	18	36	13	23	14	16
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	2680	mg/kg	0.10	5.0	5.3	6.0	6.7	5.4	5.3	5.0
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10	< 0.10	3.4	1.8	9.4	< 0.10	2.9

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854899	1854900	1854901	1854902	1854903	1854904	1854905			
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	MG	MG	NAT	MG			
		Client Sample ID.:	WS208	WS208	WS209	WS210	WS211	WS211	WS212			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.8	3.3	0.6	0.5	0.8	2.4	0.6			
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024			
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00			
		Asbestos Lab:	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	2680	mg/kg	0.10	0.50	0.40	0.49	0.39	2.6	0.94	7.4
Total Aromatic Hydrocarbons		N	2680	mg/kg	1.0	5.5	5.7	9.9	8.9	17	6.2	15
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	2680	mg/kg	2.0	22	24	46	21	41	21	32
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	2760	µg/kg	1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:	1854899	1854900	1854901	1854902	1854903	1854904	1854905
Order No.: 009188		Client Sample Ref.:	MG	NAT	MG	MG	MG	NAT	MG
		Client Sample ID.:	WS208	WS208	WS209	WS210	WS211	WS211	WS212
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.8	3.3	0.6	0.5	0.8	2.4	0.6
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
		Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00
		Asbestos Lab:	NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Ethylbenzene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	2760	µg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:		24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983	24-26983
Quotation No.:		Chemtest Sample ID.:		1854899	1854900	1854901	1854902	1854903	1854904	1854905	
Order No.: 009188		Client Sample Ref.:		MG	NAT	MG	MG	MG	NAT	MG	
		Client Sample ID.:		WS208	WS208	WS209	WS210	WS211	WS211	WS212	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.8	3.3	0.6	0.5	0.8	2.4	0.6	
		Date Sampled:		20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	
		Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00	
		Asbestos Lab:		NEW-ASB		NEW-ASB	NEW-ASB	NEW-ASB		NEW-ASB	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:										
Quotation No.:		Chemtest Sample ID.:										
Order No.: 009188		Client Sample Ref.:										
		Client Sample ID.:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Time Sampled:										
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Carbazole		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.95	< 0.50	< 0.50	< 0.50
Pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.98	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.94	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983			
Quotation No.:		Chemtest Sample ID.:	1854906			
Order No.: 009188		Client Sample Ref.:	NAT			
		Client Sample ID.:	WS212			
		Sample Type:	SOIL			
		Top Depth (m):	1.7			
		Date Sampled:	20-Aug-2024			
		Time Sampled:	12:00			
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	
Asbestos Identification		U	2192		N/A	
Moisture		N	2030	%	0.020	20
pH at 20C		U	2010		4.0	8.9
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	< 0.010
Total Sulphur		U	2175	%	0.010	0.010
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	3.2
Sulphate (Total)		U	2430	%	0.010	< 0.010
Arsenic		U	2455	mg/kg	0.5	2.2
Cadmium		U	2455	mg/kg	0.10	< 0.10
Chromium		U	2455	mg/kg	0.5	38
Copper		U	2455	mg/kg	0.50	18
Mercury		U	2455	mg/kg	0.05	< 0.05
Nickel		U	2455	mg/kg	0.50	38
Lead		U	2455	mg/kg	0.50	9.2
Selenium		U	2455	mg/kg	0.25	< 0.25
Zinc		U	2455	mg/kg	0.50	45
Chromium (Hexavalent)		N	2490	mg/kg	0.50	0.57
Total Organic Carbon		U	2625	%	0.20	0.35
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	2680	mg/kg	0.010	< 0.010
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	2680	mg/kg	0.10	1.5
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	2680	mg/kg	0.10	4.9
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	2680	mg/kg	0.10	1.6
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	2680	mg/kg	0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	2680	mg/kg	0.10	1.4
Total Aliphatic Hydrocarbons		N	2680	mg/kg	1.0	9.3
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	2680	mg/kg	0.010	< 0.010
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	2680	mg/kg	0.10	5.4
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	2680	mg/kg	0.10	< 0.10

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983			
Quotation No.:		Chemtest Sample ID.:	1854906			
Order No.: 009188		Client Sample Ref.:	NAT			
		Client Sample ID.:	WS212			
		Sample Type:	SOIL			
		Top Depth (m):	1.7			
		Date Sampled:	20-Aug-2024			
		Time Sampled:	12:00			
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	2680	mg/kg	0.10	0.50
Total Aromatic Hydrocarbons		N	2680	mg/kg	1.0	5.8
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	2680	mg/kg	2.0	15
Dichlorodifluoromethane		U	2760	µg/kg	1.0	< 1.0
Chloromethane		U	2760	µg/kg	1.0	< 1.0
Vinyl Chloride		U	2760	µg/kg	1.0	< 1.0
Bromomethane		U	2760	µg/kg	20	< 20
Chloroethane		U	2760	µg/kg	2.0	< 2.0
Trichlorofluoromethane		U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene		U	2760	µg/kg	1.0	< 1.0
Dichloromethane		N	2760	µg/kg	50	< 50
Trans 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane		U	2760	µg/kg	1.0	< 1.0
cis 1,2-Dichloroethene		U	2760	µg/kg	1.0	< 1.0
Bromochloromethane		U	2760	µg/kg	5.0	< 5.0
Trichloromethane		U	2760	µg/kg	1.0	< 1.0
1,1,1-Trichloroethane		U	2760	µg/kg	1.0	< 1.0
Tetrachloromethane		U	2760	µg/kg	1.0	< 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0	< 1.0
Benzene		N	2760	µg/kg	0.20	< 0.20
Benzene		U	2760	µg/kg	1.0	< 1.0
1,2-Dichloroethane		U	2760	µg/kg	2.0	< 2.0
Trichloroethene		N	2760	µg/kg	1.0	< 1.0
1,2-Dichloropropane		U	2760	µg/kg	1.0	< 1.0
Dibromomethane		U	2760	µg/kg	1.0	< 1.0
Bromodichloromethane		U	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10	< 10
Toluene		N	2760	µg/kg	0.20	< 0.20
Toluene		U	2760	µg/kg	1.0	< 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane		U	2760	µg/kg	10	< 10
Tetrachloroethene		U	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane		U	2760	µg/kg	10	< 10
1,2-Dibromoethane		U	2760	µg/kg	5.0	< 5.0
Chlorobenzene		U	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	2760	µg/kg	2.0	< 2.0

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983			
Quotation No.:		Chemtest Sample ID.:	1854906			
Order No.: 009188		Client Sample Ref.:	NAT			
		Client Sample ID.:	WS212			
		Sample Type:	SOIL			
		Top Depth (m):	1.7			
		Date Sampled:	20-Aug-2024			
		Time Sampled:	12:00			
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Ethylbenzene		N	2760	µg/kg	0.20	< 0.20
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0
m & p-Xylene		N	2760	µg/kg	0.20	< 0.20
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0
o-Xylene		N	2760	µg/kg	0.20	< 0.20
o-Xylene		U	2760	µg/kg	1.0	< 1.0
Styrene		U	2760	µg/kg	1.0	< 1.0
Tribromomethane		U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene		U	2760	µg/kg	1.0	< 1.0
Bromobenzene		U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50	< 50
N-Propylbenzene		U	2760	µg/kg	1.0	< 1.0
2-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene		U	2760	µg/kg	1.0	< 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0
N-Butylbenzene		U	2760	µg/kg	1.0	< 1.0
1,2-Dichlorobenzene		U	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene		U	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether		N	2760	µg/kg	0.20	< 0.20
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine		U	2790	mg/kg	0.50	< 0.50
Phenol		U	2790	mg/kg	0.50	< 0.50
2-Chlorophenol		N	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether		U	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene		U	2790	mg/kg	0.50	< 0.50
2-Methylphenol		U	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:	24-26983			
Quotation No.:		Chemtest Sample ID.:	1854906			
Order No.: 009188		Client Sample Ref.:	NAT			
		Client Sample ID.:	WS212			
		Sample Type:	SOIL			
		Top Depth (m):	1.7			
		Date Sampled:	20-Aug-2024			
		Time Sampled:	12:00			
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Bis(2-Chloroisopropyl)Ether		U	2790	mg/kg	0.50	< 0.50
Hexachloroethane		N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine		U	2790	mg/kg	0.50	< 0.50
4-Methylphenol		U	2790	mg/kg	0.50	< 0.50
Nitrobenzene		N	2790	mg/kg	0.50	< 0.50
Isophorone		U	2790	mg/kg	0.50	< 0.50
2-Nitrophenol		N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50	< 0.50
Bis(2-Chloroethoxy)Methane		U	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene		U	2790	mg/kg	0.50	< 0.50
Naphthalene		U	2790	mg/kg	0.50	< 0.50
4-Chloroaniline		N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene		U	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50	< 0.50
2-Methylnaphthalene		U	2790	mg/kg	0.50	< 0.50
4-Nitrophenol		N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene		U	2790	mg/kg	0.50	< 0.50
2-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Acenaphthylene		U	2790	mg/kg	0.50	< 0.50
Dimethylphthalate		U	2790	mg/kg	0.50	< 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50
Acenaphthene		U	2790	mg/kg	0.50	< 0.50
3-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Dibenzofuran		U	2790	mg/kg	0.50	< 0.50
4-Chlorophenylphenylether		U	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50	< 0.50
Fluorene		U	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate		U	2790	mg/kg	0.50	< 0.50
4-Nitroaniline		N	2790	mg/kg	0.50	< 0.50
Azobenzene		U	2790	mg/kg	0.50	< 0.50
4-Bromophenylphenyl Ether		U	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene		U	2790	mg/kg	0.50	< 0.50
Phenanthrene		U	2790	mg/kg	0.50	< 0.50
Anthracene		U	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: Glen Dimplex - Stage 1

Client: E3P		Chemtest Job No.:		24-26983		
Quotation No.:		Chemtest Sample ID.:		1854906		
Order No.: 009188		Client Sample Ref.:		NAT		
		Client Sample ID.:		WS212		
		Sample Type:		SOIL		
		Top Depth (m):		1.7		
		Date Sampled:		20-Aug-2024		
		Time Sampled:		12:00		
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Carbazole		U	2790	mg/kg	0.50	< 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Fluoranthene		U	2790	mg/kg	0.50	< 0.50
Pyrene		U	2790	mg/kg	0.50	< 0.50
Butylbenzyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Benzo[a]anthracene		U	2790	mg/kg	0.50	< 0.50
Chrysene		U	2790	mg/kg	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50	< 0.50
Benzo[b]fluoranthene		U	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene		U	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene		U	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene		U	2790	mg/kg	0.50	< 0.50
Total Phenols		U	2920	mg/kg	0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2680	TPH A/A Split	Aliphatics: >C5-C6, >C6-C8,>C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35- C44Aromatics: >C5-C7, >C7-C8, >C8- C10, >C10-C12, >C12-C16, >C16- C21, >C21- C35, >C35- C44	Dichloromethane extraction / GCxGC FID detection	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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 - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



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Analytical Report Number : 24-040370

Project / Site name:	Glen Dimplex	Samples received on:	05/09/2024
Your job number:	17-500	Samples instructed on/ Analysis started on:	05/09/2024
Your order number:	009353	Analysis completed by:	20/09/2024
Report Issue Number:	1	Report issued on:	23/09/2024
Samples Analysed:	1 soil sample		

Signed: _____

Trevor Hill
Customer Service Advisor
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: 24-040370

Project / Site name: Glen Dimplex

Your Order No: 009353

Lab Sample Number				307580
Sample Reference				RB102
Sample Number				None Supplied
Depth (m)				0.80
Date Sampled				02/09/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	35
Total mass of sample received	kg	0.1	NONE	1.3

Heavy Metals / Metalloids

Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.5
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Speciated Mercury (Dry Weight)

Inorganic Mercury	mg/kg	0.005	NONE	0.109
Organo-Mercury Species (including Methyl Hg)	mg/kg	0.005	NONE	0.055
Elemental Mercury	mg/kg	0.005	NONE	0.071

F1 - Water soluble	mg/kg	0.005	NONE	< 0.005
F2 - Weak acid	mg/kg	0.005	NONE	< 0.005
F3 - Organo- complexed	mg/kg	0.005	NONE	0.055
F4 - Strongly complexed	mg/kg	0.005	NONE	0.071
F5 - Mineral bound	mg/kg	0.005	NONE	0.108

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-040370

Project / Site name: Glen Dimplex

* 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 *
307580	RB102	None Supplied	0.8	Brown loam and clay with gravel and vegetation

Analytical Report Number : 24-040370

Project / Site name: Glen Dimplex

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
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.	L019B	D	NONE
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	L038B	D	MCERTS
Speciated Mercury in soil by PSA Millenium	Determination of Speciated Mercury in soil by PSA Millenium	In-house method	L085B	D	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' 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 30°C.

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution